Survey of the Grassland Fungi of the Vice County of West Donegal

David Mitchel

October – November 2009

This project has received support from the Heritage Council
under the 2009 Wildlife Grant Scheme
Grant Reference No. 16761

An Chomhairle Oidhreachta
The Heritage Council

Hygrocybe coccinea

Hygrocybe chlorophana

Hygrocybe punicea

Contents

Background

Waxcaps (the genus *Hygrocybe*) have been described as the orchids of the fungi world (Marren, 1998). They are often startling in colour from reds, oranges and yellows to whites and browns. They can smell of honey or cedar wood or, less pleasantly, oily or nitrous. They are usually found in grasslands in Northern Europe although they can also be found in woods. They are one of the groups of grassland fungi that are now recognised as excellent indicators of unfertilised grassland or "waxcap grasslands" (Arnolds, 1980). "Waxcap grasslands" can be rich in other grassland fungi and usually include the *Entolomaceae* (pink spored gill fungi), the Clavarioids (fairy clubs), *Geoglossaceae* or earth tongues and species from the smaller genera of *Camarophyllopsis, Dermoloma* and *Porpoloma.* Photographs of most of the key species are available at www.nifg.org.uk.

Waxcap grassland can be found in a range of grassland types from dunes to uplands, from lowlands to gardens or churchyards. Indeed gardens and churchyards have now often become the last refuge of these species, isolated areas that have been spared the addition of fertilisers and which give us a glimpse on what our natural grasslands once would have looked like. Many species are on national red lists across Europe and *Hygrocybe calyptriformis* was on the list of fungal species proposed for inclusion onto the Berne Convention in 2003 (Dahlberg and Croneborg, 2003) but which did not progress for various political reasons nothing to do with the need to protect fungi.

Grassland fungi provide 9 of the 15 fungal species in Northern Ireland's list of species of conservation concern. These are the waxcaps, *Hygrocybe calyptriformis, H.lacmus* and *H.ovina,* the earth tongues, *Geoglossum atropurpureum, Microglossum olivaceum* and *Trichoglossum walteri* along with *Clavaria zollingeri, Entoloma bloxamii* and *Porpoloma metapodium* (see *http://www.habitas.org.uk/priority/splist.asp?Type=Fungi*)

These species are sensitive to the application of artificial fertilisers and it is for this reason that they are such a good indicator of "natural" grasslands. It was estimated in Northern Ireland that the cumulative surplus of phosphorus in the soil was 500,000t (Bailey, 1994) meaning that most of the lowland rural Northern Ireland landscape is eutrophicated. There have been various attempts to discover how long it might take before sites may take to recover after intensive fertilization. Studies in England looking at the improvement in the soil fungal:bacterial biomass ratio due to the cessation of fertiliser application found no improvement after 6 years (Bardgett and McAlister, 1999). Three sites in the Netherlands that had been intensively managed for agriculture but that were now managed for nature conservation had only up to three species of *Hygrocybe* after 20 years (Arnolds, 1994) but the lack of suitable surrounding habitat may have influenced this very slow recovery. Experimental plots also in the Netherlands showed that species of *Hygrocybe* could colonise the plots in a much shorter time period if they were low on phosphorus (Arnolds, 1994). Hence recovery is probably more related to the nutrient status of the soils rather than the age of the site with factors like suitable surrounding habitat also playing a role.

There is now greater interest in managing grasslands sustainably without high fertiliser input. Naturally sustainable grasslands have soils dominated by fungal pathways of decomposition rather than bacterial and a high microbial biomass (Bardgett and McAlister, 1999). Given their visual prominence in autumn, waxcaps are an indicator group for "natural" grasslands that offer a means of rapid site assessment. Their presence indicates a wider nature conservation value beyond mycology. It was noticeable that when comparing waxcap distribution with the fields found to be most favoured by chough feeding on leatherjackets (Anon, 2004) that they were completely coincident.

Waxcap grasslands however are often not particularly good for higher plants which can mean that they are missed when designating sites for nature conservation. Statistical studies in Sweden have shown that there is a low congruence between the diversity of *Hygrocybe* spp. and higher plants (Öster, 2008) indicating that reliance on higher plants when protecting sites could well miss sites of high mycological value.

The great unknown however is just what these species are actually doing in the soil. One study (Griffith et al., 2002) points to some possible answers based on stable isotope analysis. Stable isotopes of Carbon (^{13}C) and Nitrogen (^{15}C) occur naturally and work looking at the patterns of ^{13}C and ^{15}C enrichment in ectomycorrhizal and saprophytic fungi have shown quite different enrichment patterns. Waxcaps, however, appear different to normal saprophytic fungi as they are more depleted in ^{13}C and more enriched in ^{15}N. Clavarioids and *Geoglossaceae* are even more extreme in this trend, but Entolomas are more typical of saprophytic fungi. This could mean that *Hygrocybe* spp., Clavarioids and *Geoglossaceae* could be deep humic decayers rather than normal surface litter decayers adapted to N poor conditions.

Assessing site quality from fungal data

The first recognition of grassland fungi in Ireland was a paper by (Feehan and McHugh, 1992) on the Curragh and since the early 1990s, interest has been growing in this group as it has been recognised that this unique community is seriously threatened across Europe.

Various systems have been proposed to rank sites for grassland sites for their fungal conservation value. (Rald, 1985) in Denmark proposed a system based on the number of species of *Hygrocybe*, (Nitare, 1988) looked at systems in Sweden, (Jordal, 1997) in Norway and the British Mycological Society instigated a survey giving the surveyed sites a CHEG score (*Clavariaceae, Hygrocybe, Entoloma* and *Geoglossaceae*) (Rotheroe et al., 1996). Rotheroe then proposed a system that included a weighted score for rarer species that are restricted to species rich sites (Rotheroe, 1999). This was further developed by McHugh et al (2002) when we proposed a weighted scoring system for Ireland. One of the main drivers for this was due the lack of mycological recording in Ireland, we wanted to highlight sites for further visits that had species thought to be rarer or more valuable indicator species. Weighting species is controversial as in reality the data is not available to weight them with confidence (Griffith et al., In Press) but the point was to use this in conjunction with standard CHEG scores and highlight possible interesting sites (McHugh et al., 2001).

Most of the scoring systems above base their score on species and do not include varieties in the calculation (Rald, 1985), (Nitare, 1988), (Boertmann, 1995), (Vesterholt et al., 1999) and (McHugh et al., 2001). However, some surveys have counted varieties (Rotheroe, 1999) and (Newton et al., 2002) so it is very important to be clear about the basis of the system used when comparing data across regions. For this purpose, the definition of species used in all the Irish surveys follows the Checklist of the Basidiomycetes of the British Isles (Legon and Henrici, 2005) and Spooner's key for Geoglossaceae (Spooner, 1998) with three exceptions to remain consistent with the continental surveys.

- *Hygrocybe pratensis* var. *pallida* is the only variety included in the scoring following Vesterholt 1999
- *A*lthough the Checklist of the Basidiomycetes of the British Isles (Legon 2005) did list *Hygrocybe conicoides* as a species rather than *Hygrocybe conica* var. *conicoides*, Boertmann's book and his recent interpretation of *Hygrocybe* in Funga Nordica (Knudsen and Vesterholt, 2008) both still list it as a variety so it is not counted separately in this study.
- *Hygrocybe marchii* is considered a synonym of *H.coccinea* following Funga Nordica.

Despite this, any good database can take these differing definitions into account and a Microsoft Access database is in use for scoring and ranking grassland sites in Ireland.

These site ranking systems primarily look at the genus *Hygrocybe* when ranking sites. Inevitably there will be sites that are particularly good for the other target groups and this is where the value of the CHEG scores is obvious. Some studies (Griffith et al., In Press) have added the different CHEG scores together but this has to be viewed with caution. *Entolomataceae* are particularly difficult to identify and being honest even very good mycologists will often not get every *Entoloma* identified. Hence the *Entolomataceae* are not well recorded and often only partially. Added to this, there are many more species of *Entoloma* than in the other groups so adding CHEG scores together can just end up highlighting sites where mycologists who can identify *Entoloma* have visited.

Table 1 shows the total numbers of CHEG and related species as occurring in grasslands in the British Isles according to the Checklist of the Basidiomycetes of Britain and Ireland (Legon and Henrici, 2005) and (Ridge, 1997):

Group	Total Grassland Species
Clavariaceae	24
Hygrocybe	51
Entolomataceae	99
Geoglossaceae	12
Dermoloma	4
Camarophyllopsis	5
Porpoloma	1

Table 1: Numbers of grassland CHEG and related species occurring in the British Isles

Aims of this project

The main aim of this survey was to provide a baseline of information for the vice county of West Donegal. This project proposal was to locate and survey waxcap grasslands in as many different 10km squares as possible over a two week period between 24/10/08 and 07/11/08. From experience, the fortnight around the end of October and start of November is usually the best period for fruiting for grassland fungi in Ireland as this group always fruits later than woodland fungi. The target group of species were the Waxcaps (genus *Hygrocybe*), the non-woodland Fairy Clubs (*Clavariaceae*), the Pink gills (*Entolomaceae*), the earth tongues (*Geoglossaceae*) and the genera *Camarophyllopsis, Dermoloma* and *Porpoloma.* These species would be thoroughly searched for. Records would be made of other species but the maps generated may not necessarily be complete for these groups.

The data collected was to be compared with other Irish data as well as GB data to provide a British Isles context for the West Donegal sites. This data and interpretation would also feed into the National Biodiversity Information Centre. All images collected during this survey are available for unlimited usage for the Heritage Council or the National Biodiversity Information Centre.

In addition, the recent Biodiversity Species List for County Donegal was re-evaluated in terms of additional datasets and the results from this survey and also in terms of the latest taxonomic revisions. Recommendations are also made on possible fungal Priority species for Donegal.

The Vice County of West Donegal

Vice counties were defined so that biological recording had fixed regional boundaries, independent of political changes, to allocate records to allowing comparisons of records over time. The boundary of the vice county of West Mayo (H27) was first defined by Babbington in 1856 and refined by Praeger in 1896 (Webb 1980). The county of Donegal is divided into two vice - counties – East and West. The main upland areas of Donegal are in West Donegal with only part of the Blue Stacks and the Inishowen peninsula being in East Donegal. Blanket Bog dominates large areas and the key aspect in looking for waxcap grassland sites was to search for the thin mineral soils often found on steep slopes. West Donegal is also very rich in coastal dune systems and machair and these provide an important proportion of semi-natural grassland within the vice county.

History of mycological recording and the Biodiversity Species List for County Donegal

Fungi are very poorly recorded in West Donegal. The Fungus Records Database for the British Isles (http://www.fieldmycology.net/FRDBI/FRDBI.asp) is the primary source of fungal records and this database holds a mere 358 records of 224 different species for the vice county. Compare this to 1521 species recorded for Down, 1164 for Antrim, 1077 for Wicklow and 1032 for Fermanagh. These records mainly consist of a small batch of records made by the British Mycological Society in 1931 on a visit to Dunfanaghy after the first ever BMS foray to Northern Ireland, a few visits to Glenveagh National Park and Ards Forest Park by the Northern Ireland Fungus Group in 1998 and 2004 and records from Roland McHugh and Stuart Dunlop.

The other source of records comes from the various volumes of the Catalogue of Irish Fungi by Muskett and Malone published between 1976 and 1984. Many of the datasets from which the catalogue was derived are not digitised so much of this data is not readily accessible. This makes interpretation difficult due to the old names that were used in the Catalogue.

The Biodiversity Species List for County Donegal (Sheppard, 2009) pulled together data from both these sources and listed 470 names for the whole county. The problem is that many of the names used in Muskett and Malone are now synonyms of names used by the FRDBI and in reality, when all the names are queried against their modern preferred name, this list contained 418 unique species names. One species listed (*Peniophora ilex*) does not actually exist as it is not listed in Index Fungorum (http://www.indexfungorum.org). The Biodiversity List was reviewed and commented on in Appendix 3 with the current name, common name and a comment added for each entry. The FRDBI was further checked for new records and a further 30 names were added to the list from this source. This list has been sent to the Heritage Officer in Donegal County Council in Excel format for ease of use.

Methodology

Mycologists and local conservation rangers were contacted before the survey asking if they knew of any good or possible sites for survey. Thanks must go to Roland McHugh of Dublin Institute of Technology for ideas and providing additional species lists.

The 1:50,000 OSi maps were studied as were aerial photographs available on Google Earth and (even better) the OSi SmartMaps Viewer available at http://shop.osi.ie/shop/. Another key dataset examined in advance was the Environmental Protection Agency's National Soils database (https://maps.epa.ie). This has allowed an analysis of the three recent waxcap

surveys funded by the Heritage Council against soil type. Table 2 shows the different soil types mapped against number of grassland fungi records.

IFS SOIL type	Description	No Records
AminSRPT	Podzols – Peaty	423
AminDW	Acid Brown Earths – Brown Podzolics	131
BminSW	Renzinas / Lithosols Basic	128
AminSW	Lithosols / Regosols Acidic	103
MarSands	Beach sands and gravels	86
AminPD	Surface Water Gleys, ground water Gleys, Acidic	85
Made	Man made soils	43
AeoUND	Aeolian undifferentiated	41
AminPDPT	Peaty gleys, acidic	24
BktPt	Blanket peat	23
BminDW	Grey Brown Podzolic Brown Earths, Basic	15
AminSP	Shallow Surface or Ground water Gleys Acidic	14
BminPD	Surface Water Gleys, ground water Gleys, Basic	6
BminSP	Shallow Surface or Ground water Gleys Basic	4
AlluvMIN	Mineral Alluvium	4

Table 2: National Soil Database soil categories and number of grassland fungi records from the Co.Clare (2006), West Cork (2007) and West Mayo (2008) surveys

From this, the preference for better drained mineral soils compared to the wetter gleys or blanket peats is marked. National soil datasets are however relatively broad scale and do take the local complexities of soils into account and this is the scale at which fungal mycelia operate. However, with the limitations in mind and if taken at a broad scale, such maps can help target possible new sites and the identification of possible sites using the soils map helped significantly in finding new sites as I was able to target areas of interest and ignore some wide areas of countryside. In such a time limited rapid survey, this ability is significant.

Other useful datasets used were Geology available from the GSI website and the Gardens dataset of the National Inventory of Architectural Heritage (http://www.buildingsofireland.ie). The latter dataset allowed possible large estate lawns to be identified and brought into the site search planning.

Using all these datasets, the most likely sites within each 10km square were identified and driving routes for each survey day were planned in advance. Each site was visited for as long as was necessary. Whilst the target groups were searched for as priority, all species of fungi encountered were recorded. However many of these latter records were of a casual nature and many of the species maps produced for these species are very unrepresentative as they were only recorded if seen and were often not searched for.

When notable species were found, specimens were taken for microscopical examination. Herbarium specimens were dried on a continental fruit drier and are being passed to the National Botanic Gardens in Glasnevin as well as the Royal Botanic Gardens in Kew. The target species are listed in the Species Reports.

The literature used to identify the grassland target groups were as follows:

- Bas et al (1990) Flora Agaracina Neerlandica Vol. 2. Leiden. (Used for *Camaropyllopsis*)
- Boertmann, D. (1995).*The Genus Hygrocybe* (Fungi of Northern Europe – I). Danish Mycological Society.

- Henrici, A. (1997) *Keys to British Clavariaceae*. Privately circulated.
- Noordeloos, M.E. (1992) *Entoloma, s.l.* (Fungi Europaei 5 and 5a). Saronno: Libreria editrice Giovanna Biella.
- Spooner, B. (1998).) *Keys to the British Geoglossaceae (draft).* Privately circulated.
- Vesterholt, J. (2002) Contribution to the knowledge of species of *Entoloma* subgenus *Leptonia*. Edizioni Candusso
- Watling, R. & Turnbull, E. (1998) 8. *Cantharellaceae, Gomphaceae and Amyloid and Xeruloid members of the Tricholomataceae: British Fungus Flora Vol.8.* Royal Botanic Gardens, Edinburgh (Used for *Dermoloma* and *Porpoloma*)

Results

Weather and Fungal Fruiting

The fruiting of fungi is particularly affected by weather. Fruiting is often best after warm summers which are followed by a damp autumn. Generalising, during the warm summer, the underground mycelia extend and then during the damp autumn, fruiting occurs and uses up a considerable amount of moisture. However, if there is too much rain and the top soil layers become waterlogged, the anaerobic conditions hinder the production of fruiting bodies (Rotheroe 1999). Containing so much moisture, fungi can be hit badly by frosts but on the other hand, early frosts in October and early November seem to quickly initiate a new batch of fruiting of waxcaps as long as the frosts do not continue for a long period of time. Although some species of waxcaps can fruit in July (even as early as May), the main flush is usually in late October and early November. In coastal areas in Ireland, the fruiting period can continue through December even into January due to the infrequency of frosts.

Met Éireann provide summary weather statistics for various parts of the country and the following statistics are for Malin Head, the nearest station, and are quoted from http://www.met.ie/climate/monthly-data.asp?Num=545.

Total Rainfall in millimetres for Malin Head

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2009	98.8	40.4	87.6	94.7	95.2	47.7	72.2	170.9	71.0	108.6	224.8		1111.9
2008	188.8	89.0	140.5	49.4	15.1	74.6	126.0	123.2	87.8	146.9	115.6	85.7	1242.6
mean	114.2	76.6	86.5	57.5	58.9	65.0	71.8	91.6	102.1	118.7	114.7	102.9	1060.6

Mean Temperature in degrees Celsius for Malin Head

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2009	5.3	6.3	7.6	9.3	10.8	13.4	14.9	14.8	13.2	11.8	8.7		10.6
2008	6.5	6.9	6.5	8.1	11.9	12.7	14.7	14.8	13.0	10.0	8.2	6.0	9.9
mean	5.4	5.2	6.2	7.6	9.9	12.3	13.8	14.0	12.7	10.7	7.5	6.3	9.3

The key points of note from these figures are prior to the survey, July and especially August were very wet indeed (Stuart Dunlop noted on his Donegal Wildlife Blog - http://donegal-wildlife.blogspot.com – on 8th September that rain had fallen every day since 15th June). This was followed by a very dry spell through September to half way through October and this was then followed by an exceedingly wet survey period with November's rainfall almost double the monthly mean. Temperatures were higher than normal and there was no frost at all during the survey period. Winds were also a key feature of the survey period being almost constantly strong during the fortnight. This does not affect fruiting but it does affect surveying and the ability to get out to islands. Hence Tory Island. Gola Island and Inishboffin were not visited.

The high rainfall through the summer will have meant good fruiting early in the season but the dry September / half October will have delayed the main autumn flush and actually meant that fruiting was very good during the study period.

Summary Results

There are 49 x 10km squares in West Donegal although some of these have very small amounts of lands within them. 64 sites in 36 x 10km squares were visited and a distance of 931 miles was covered in the process. Many of these sites were small churchyards but others were large and took most of the day to survey. Due to time restrictions as I was trying to cover as large an area as possible, sites were not visited that involved long walk ins or if it was difficult to organise permissions onto the land.

Table 3 compares number of species found the other Heritage Council surveys. The figures quoted do not include the varieties.

	West Donegal 2009	**West Mayo 2008**	**West Cork 2007**	**Clare 2006**	**All Ireland to date**
Waxcaps (*Hygrocybe)*	30	25	29	23	40
Clavarioid (Fairy Clubs)	11	8	10	10	16
Entolomaceae	15	7	20	12	66
Geoglossaceae (Earth tongues)	6	8	3	5	11
Other grassland target species[1]	1	1	2	2	6
Total species	194	177	206	155	
Total records	943	774	959	573	
No sites with 10+ *Hygrocybe*	18	9	9	7	

[1]*Camarophyllopsis, Dermoloma, Porpoloma*

Table 3 Number of Species found in the Heritage Council surveys

This table shows that West Donegal was as rich as the West Cork survey in terms of species diversity but notably out of all the surveys, this was the most successful in finding sites with 10+ species of *Hygrocybe.* This could have been helped by the preparation being more efficient as described above and/or, this being a particularly rich area. Certainly the indications would be that the survey period coincided with a good fruiting spell for grassland fungi.

The stand out site was Arran More with a CHEG score of 5: 19: 6:1 which keeps the themes of these surveys of the best sites being islands. The area searched started at the end of the road going out to the south western point on Arran More at Rannagh. The first sheep grazed fields past the end of the road were some of the best with abundant fruiting. The fields are steep with patches of heath within the acid grassland grading into wetter areas where it is less steep. The interest continued all around the head at Cronagarn and along the western cliffs. The best sites were found at B64271517, B64441572, B64901706, B65011754 and B65461746. The notable species were *Hygrocybe nitrata, Clavulinopsis umbrinella* and *Entoloma prunuloides*.

The small area of grassland at Teelin Point near Carrick (G59177508) was surprisingly good with 14 species but the whole cliff line up to Slieve League is probably very good and worth further exploration. Other good sites were Tramore Dunes / Marfagh Head near Dunfanaghy with 14 species, Lough Salt north of Kilcrennan with 14, Melmore Head on Rosguill with 14, the cliffs at Pollet on Fanad with 14 and a set of fields near Muckros Head also with 14. This site is of particular note due to the number of notable species recorded there. *Hygrocybe calyptriformis, Clavaria zollingeri, Clavaria fragilis, Clavulinopsis umbrinella* and *Microglossum olivaceum* are all special finds with this being the only site for *Clavaria zollingeri* and

Microglossum olivaceum in this survey. Indeed this is the first time I personally have found *Clavaria zollingeri* in Ireland.

It was again notable that coastal dunes and machair sites were poor for grassland fungi. This is not often the case elsewhere in Europe but in Ireland, this is often the case. Fruiting can be good but diversity is usually low with better sites often being marked by a varied habitats within them with rock outcrops, acid grassland or even heath. This was the case with Sheskinmore Dunes and Carrick Machair at Derrybeg. It still could be that machair sites fruit earlier in the season as Roland McHugh has sometimes found excellent sites like Aghadachor near Rosapenna usually visiting these sites in early October and this is something that needs more investigation.

Churchyards were again generally poor with the best sites (Dungloe Church of Ireland - B76661157 and St Colmkille Church of Ireland at Glenalla - C24012740) only hosting 7 species. Churchyards are often the only sites in lowland squares but very good churchyards are rare in the west of Ireland.

Notable Finds

New Irish Records

There are no published records or records for Ireland in the Fungus Records Database for the British Isles (FRDBI) hosted by the British Mycological Society or the National Biodiversity Data Centre for the following species:

Melanoleuca friesii (Bres.) Bon.
This genus as a whole is poorly understood and under recorded. This species is very similar to the common *M.polioleuca* but is distinguished by the cheilocystidia being in the majority lageniform and not fusiform as in *M.polioleuca.* This species is listed in CBIB and the British Fungus Flora as *M.albifolia* but the name *M.friesii* is used in Funga Nordica. It was found at Rosapenna machair at C12163719 on 29/10/2009. It is probably more common in Ireland and just under recorded.

Pluteus griseoluridus P.D. Orton
This is a small pink spored species found in bare sand in fore dunes associated with Marram grass at Portacurry or more strictly at An Chloch Ghlas at B71531774 on 25/10/09. Embryo dunes have their own distinctive mycota with *Psathyrella ammophila, Melanoleuca cinereifolia* and *Peziza ammophila* dominating but this species was locally common. There are 43 records for GB for this species in the FRDBI.

Stropharia albonitens (Fr.) P. Karst.
This striking large white very viscid *Stropharia* with dark brown black spores is rarely recorded in the British Isles with only 11 records in the FRDBI. Found at Lough Ascardan (B85161538) on 26/10/2009 in grass alongside the small road and at Rathmullan Roman Catholic Church (C29562789) on 27/10/2009.

Other Notable Records – Target Species

Hygrocybe calciphila Arnolds
Found at Rosapenna machair (C12163719) on 29/10/2009, Dooey Dunes (B755019) on 24/10/09 and 01/11/09 and Derrybeg: Carrick Machair (B801285) on 02/11/2009. This dry capped waxcap looks similar to *H.miniata* but has broader spores and is usually found in dune systems.

Hygrocybe calyptriformis (Berk. & Broome) Fayod
The "flagship" waxcap unmistakable with its pink colour. This photo shows why it is sometimes called the Ballerina. Found at Letterkenny: Conwal Church of Ireland (C16781152) on 24/10/2009 and Muckros (G62337435) on 30/10/2009.

Hygrocybe citrinovirens (Lange) Jul. Schäff.
Usually found earlier in the season, this large lemon yellow waxcap was found once in this survey on the very last day at Dunfanaghy: Holy Cross Church (C01663706) on 06/11/2009.

Hygrocybe nitrata (Pers.) Wünsche
One of the rarer waxcaps, this is noted due to its strong nitrous smell. What was notable in this survey was how often this species was found with five records. Found at Lough Ascardan (B85161538) on 26/10/2009, Arran More (B64901449) on 28/10/2009, Malin Beg: Silver Strand (G499799) on 31/10/2009, Maghera Strand (G65219096) on 31/10/2009 and Derrybeg: Carrick Machair (B801285) on 02/11/2009.

Clavaria straminea Cotton
An unusual pale straw coloured Fairy Club with a bright yellow base that grows singly. Sometimes it grows with a twisted form like a corkscrew. This species seems to have years when it is commonly found and other years when it is hardly found. Recorded from Portnoo: Narin Dunes (G720995) on 24/10/2009, Maghera Strand (G658909) on 31/10/2009 and Dunfanaghy: Holy Cross Church (C01663706) on 06/11/2009.

Clavaria zollingeri Lév.
One of the most striking Fairy Clubs being bright purple and densely branched. Found at Muckros (G62337435) on 30/10/2009 on the side of an earth bank dividing the fields. Only recorded from 6 other sites in Ireland: Clare Island in Mayo from 1910, Clandeboye Estate in Down in 1948, Castlewellan in Down in 1994, Barnett's Demesne in Belfast (2001, 2005, 2006), Ballykelly, Tamlaghtfinlagan Parish Church in Londonderry in 2004 and Kilskeery Parish Church in Fermanagh in 2004. Hence this is only the second record in the Republic of Ireland and the first since 1910.

Clavulinopsis umbrinella (Sacc.) Corner
A notable fairy club, often a pale brown colour. Densely branched but the spores are smooth distinguishing pale forms from *Ramariopsis kunzei.* Found at Arran More (B65411752) on 28/10/2009 and Muckros (G62337435) on 30/10/2009.

Entoloma bloxamii (Berk.) Sacc.
A large blue bulky *Entoloma* that is not often recorded. Recorded six times before in the Republic of Ireland and fifteen times in the whole of Ireland. Found at Teelin Point (G59177508) on 30/10/2009. A Northern Ireland Priority Species.

Entoloma undatum (Gillet) M.M. Moser
A small *Entoloma* with deeply decurrent gills and an umbilicate cap. Found at Kilmacrennan: Leiter Presbyterian Church (C16022042) on 27/10/2009.

Geoglossum atropurpureum (Batsch) Pers.
It is very difficult to separate this species from other earth tongues in the field but it sometimes has a browner or more purple colour. Very different under the microscope with brown colours and non-septate spores. A Northern Ireland Priority Species. Found at Teelin Point (G59177508) on 30/10/2009 and Marfagh Head (B987377) on 06/11/2009.

Microglossum olivaceum (Pers.) Gillet
A very striking earth tongue with brown and/or blue/green colours. Only recorded from 5 sites in the Republic of Ireland, it has been more commonly recorded in Northern Ireland but it is still a notable species. A Northern Ireland Priority Species. Found at Muckros (G62337435) on 30/10/2009.

Other Notable Records – non-Target Species

Agaricus silvaticus Schaeff.
Not a rare species, these records are more noted by the habitat being here found in open grassland. This species is normally found in woodland. Found at Crohy Head: Tircreg (B726064) on 01/11/2009 in acid grassland and Sheskinmore Dunes in a heath / grassland mosaic at G678958 on 03/11/2009.

Chamaemyces fracidus (Fr.) Donk
Only known from three sites in Ireland – Muckross Wood in Killarney from 1989, Castle Archdale in Fermanagh from 2000 and Mullagh More on the Burren from 2006. A distinctive species with dark spots on the stipe. Found from Melmore Head on Rosguill (C136447) on 29/10/2009.

Coprinopsis ammophilae (Courtec.) Redhead, Vilgalys & Moncalvo
This small inkcap is one of the small distinctive group of species found associated with Marram grass in foredunes. Only recorded once before in Ireland from Mullaghmore in Sligo from 2000. Found at Portacurry Dunes (B71531774) on 25/10/2009 and Ballymastocker Dunes on Fanad at C252379 on 27/10/2009.

Cortinarius croceus Fr.
There is notably a species of *Cortinarius* in the section *Dermocybe* that is found in commonly in grasslands. As this is an ectomycorrhizal genus, it is possibly forming ectomycorrhizal like relationships with sedges. It is possible this is actually *C.pratensis* but spore size points it towards *C.croceus.* Found at Melmore Head (C136447) on 29/10/2009 and Owenwee Valley (G64318950) on 31/10/2009.

Gloniella adianti (Kunze) Petr.
This is a small ascomycete found on dead Juniper wood on Arran More at B64391515 on 28/10/2009 and was kindly identified by Roy Anderson. There is one record for this species from Ireland from near Derreen in West Galway in 1989 and this is actually one of only two records for the whole of the British Isles. It is usually recorded associated with ferns. Roy contacted Eric Boehm in the US who has written a world monograph for this group (http://www.eboehm.com/gloniella.html). He commented as follows:

> "It is true that there does exists of group of Gloniella species that are primarily recovered from ferns, but I would keep an open mind on host specificity. For these lignicolous and corticolous fungi, my assumption would be that host-specificity either does not exist, or, if it does, then the hosts involved will be found to be numerous and not follow a generalized pattern."

Hebeloma radicosum (Bull.) Ricken
An intriguing record of a large viscid Hebeloma with a ring and that smells strongly of marzipan. Found at Castlegrove Country Hotel near Letterkenny (C22601556) on 27/10/2009. It is intriguing because it is normally associated with mole latrines but of course there are no mole latrines in Ireland. The only other published association is with wood mice burrows and this may be the case here. It was actually found in rotting grass cuttings which may or may not be a coincidence.

Hebeloma vaccinium Romagn.
Only recorded once before in Ireland in 2000 from Wicklow. A dark brown *Hebeloma*, this was recorded on *Salix repens* at Maghera Strand (G65649087) on 31/10/2009.

Lichenomphalia alpina (Britzelm.) Redhead, Lutzoni, Moncalvo & Vilgalys)
This small bright yellow lichenized fungus was found on the summit heath of Muckish (C001285) on 05/11/2009 by Luke Mitchel. Probably under recorded, there is only one other Irish record on the FRDBI from the Galtee Mountains from 1969.

Stropharia coronilla (Bull.) Quél.
Known from three other sites in Ireland (North Bull Island – 1941, 1948; Greystones in Wicklow from 1988 and the Royal Canal near Maynooth in 2004). This small *Stropharia* does not look unlike a small *Agaricus* and is also similar to the rarer *S.halophila* which has larger spores. Found at Dooey Dunes (G720995) by Chris Stretch on 24/10/09.

Typhula micans (Pers.) Berthier
A small pink club found on decaying leaves and stems. Found twice in dune systems by Debbie Nelson and the Northern Ireland Fungus Group at Dooey Dunes (G720995) on 24/10/09 and Carrickfin dunes on 25/10/09.

Lepiota sp.
An unidentified *Lepiota* was found at Sheskinmore amongst heather at the edge of a heath / grassland mosaic. It was in the *L.brunneoincarnata / L.echinella* area with ellipsoid spores and a pileus with long elements mixed with short clavate cells. It was not robust enough for *L.brunneoincarnata* as the stipe was only 4mm thick and the spores were too large for *L.echinella* at 8-9 (10) x 4-5 µm. This group of *Lepiota* is unclear taxonomically so the species is described and dried and will await further work on this group.

New Vice County Records

As West Donegal is so poorly recorded mycologically, of the 194 species recorded on this survey, 119 are new vice county records. Table 4 lists these.

Species	Authority
Agaricus bernardii	Quél.
Agaricus macrocarpus	(F.H. Møller) F.H. Møller
Agaricus silvaticus	Schaeff.
Agaricus urinascens	(F.H. Møller & Jul. Schäff.) Singer
Ascobolus carbonarius	P. Karst.
Asteroma impressum	Fuckel

Species	Authority
Bolbitius vitellinus	(Pers.) Fr.
Boletus badius	Fr.
Bovista nigrescens	Pers.
Bovista plumbea	Pers.
Chamaemyces fracidus	(Fr.) Donk
Cheilymenia granulata	(Bull.) J. Moravec
Clavaria acuta	Fr.
Clavaria fumosa	Fr.
Clavaria straminea	Cotton
Clavaria zollingeri	Lév.
Clavulina rugosa	(Bull.) J. Schröt.
Clavulinopsis fusiformis	(Sowerby) Corner
Clavulinopsis laeticolor	(Berk. & M.A. Curtis) R.H. Petersen
Clavulinopsis luteoalba	(Rea) Corner
Clavulinopsis umbrinella	(Sacc.) Corner
Clitocybe dealbata	Sowerby
Clitocybe nebularis	(Batsch) Quél.
Clitocybe vibecina	(Fr.) Quél.
Coprinopsis ammophilae	Courtec.
Coprinopsis atramentaria	(Bull.) Fr.
Coprinopsis nivea	(Pers.) Fr.
Cortinarius anomalus	Fr.
Dacrymyces stillatus	Nees
Entoloma asprellum	(Fr.) Fayod
Entoloma bloxamii	(Berk.) Sacc.
Entoloma chalybaeum var. chalybaeum	(Pers.) Noordel.
Entoloma conferendum	(Britzelm.) Noordel.
Entoloma jubatum	Fr.
Entoloma papillatum	(Bres.) Dennis
Entoloma poliopus var. poliopus	(Romagn.) Noordel.
Exidia recisa	(Ditmar) Fr.
Fuligo septica	(L.) F.H. Wigg.
Galerina vittiformis	(Fr.) Singer
Ganoderma australe	(Fr.) Pat.
Geoglossum atropurpureum	(Batsch) Pers.
Gloniella adianti	(Kunze) Petr.
Handkea excipuliformis	(Scop.) Kreisel
Handkea utriformis	(Bull.) Pers.
Hebeloma radicosum	(Bull.) Ricken
Hebeloma vaccinium	Romagn.
Hygrocybe aurantiosplendens	R. Haller Aar.
Hygrocybe calciphila	Arnolds
Hygrocybe calyptriformis	(Berk. & Broome) Fayod
Hygrocybe citrinovirens	(Lange) Jul. Schäff.
Hygrocybe flavipes	(Britzelm.) Arnolds
Hygrocybe glutinipes var. glutinipes	(J.E. Lange) R. Haller Aar.
Hygrocybe irrigata	(Pers.) M.M. Moser

Species	Authority
Hygrocybe mucronella	(Fr.) P. Karst.
Hygrocybe nitrata	(Pers.) Wünsche
Hygrocybe quieta	(Kühner) Singer
Hygrocybe splendidissima	(P.D. Orton) P.D. Orton & Watling
Hypholoma fasciculare	(Huds.) P. Kumm.
Hypoxylon fuscum	(Pers.) Fr.
Hypoxylon multiforme	(Fr.) Fr.
Inocybe lanuginosa	(Bull.) P. Kumm.
Inocybe rimosa	(Bull.) P. Kumm.
Lacrymaria lacrymabunda	(Bull.) Pat.
Lactarius deterrimus	Gröger
Lactarius glyciosmus	(Fr.) Fr.
Lactarius lacunarum	Romagn. ex Hora
Lactarius vietus	(Fr.) Fr.
Leccinum cyaneobasileucum	Lannoy & Estades
Lepista nuda	(Bull.) Cooke
Lepista panaeola	(Fr.) P. Karst.
Lichenomphalia alpina	(Britzelm.) Redhead, Lutzoni, Mon. & Vilgalys
Lycoperdon nigrescens	Wahlenb.
Macrocystidia cucumis	(Pers.) Joss.
Marasmius oreades	(Bolton) Fr.
Marasmius setosus	(Sowerby) Noordel.
Melampsoridium betulinum	(Pers.) Kleb.
Melanoleuca cinereifolia	(Bon) Bon
Melanoleuca friesii	(Bres.) Bon
Melanoleuca polioleuca f. polioleuca	(Fr.) Kühner & Maire
Microglossum olivaceum	(Pers.) Gillet
Microsphaera alphitoides	Griffon & Maubl.
Mucilago crustacea	Mich.
Mycena epipterygia var. epipterygia	(Scop.) Gray
Mycena galericulata	(Scop.) Schaeff.
Mycena pura var. pura	(Pers.) P. Kumm.
Omphalina subhepatica	(Batsch) Murrill
Panaeolina foenisecii	(Pers.) Maire
Peziza ammophila	Durieu & Mont.
Peziza arvernensis	Boud.
Peziza repanda	Wahlenb.
Pholiota conissans	(Fr.) M.M. Moser
Pluteus griseoluridus	P.D. Orton
Polyporus squamosus	(Huds.) Fr.
Psathyrella ammophila	(Durieu & Lév.) P.D. Orton
Psathyrella conopilus	(Fr.) A. Pearson & Dennis
Psilocybe coprophila	(Bull.) P. Kumm.
Puccinia poarum	E. Nielsen
Rhopographus filicinus	(Fr.) Nitschke ex Fuckel
Rhytisma salicinum	(Pers.) Fr.
Rickenella fibula	(Bull.) Raithelh.

Species	Authority
Rickenella swartzii	(Fr.) Kuyper
Russula betularum	Hora
Russula cyanoxantha	(Schaeff.) Fr.
Russula exalbicans	(Pers.) Melzer & Zvára
Russula mairei	Singer
Russula queletii	Fr.
Schizophyllum commune	(L.) Fr.
Scleroderma bovista	Fr.
Stropharia aeruginosa	(Curtis) Quél.
Stropharia albonitens	(Fr.) P. Karst.
Stropharia coronilla	(Bull.) Quél.
Stropharia pseudocyanea	(Desm.) Morgan
Taphrina alni	(Berk. & Broome) Gjaerum
Trichoglossum hirsutum	(Pers.) Boud.
Tricholoma terreum	(Schaeff.) P. Kumm.
Typhula micans	(Pers.) Berthier
Vascellum pratense	(Pers.) Kreisel
Volvariella gloiocephala	(DC.) Fr.
Xylaria carpophila	(Pers.) Fr.

Table 4 – Species new to West Donegal

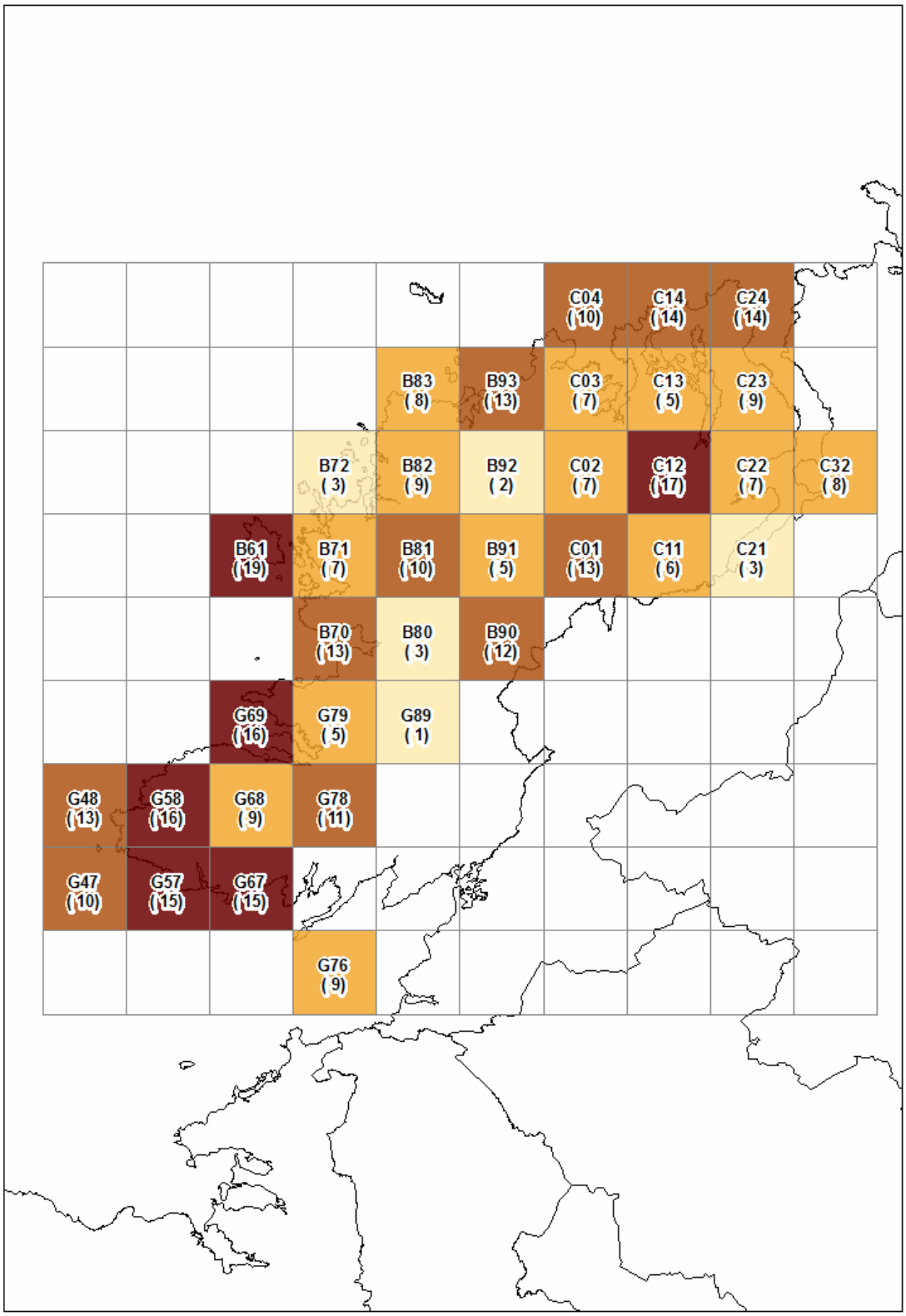
10km square and Site Rankings

Both the total 10km squares and individual sites were ranked according to numbers of species of *Hygrocybe*. Map 1 shows the distribution of the 10km squares surveyed and the number of species of *Hygrocybe* found in each square. Appendix 1 gives full 10km and site species lists.

If the results in Tables 5 - 8 are compared to the results from the Clare, West Cork and West Mayo surveys (see Table 1), it is obvious that finding good sites in West Donegal was not difficult compared to the other surveys as 18 sites had 10 or more species of *Hygrocybe.* The stand out site was Arran More with 19 species which is the second best site found in the four surveys after Clare Island. The area especially around the head at Cronagarn was so good that it is bound to be richer than found on this one day.

The sites with more than 10 species varied enormously in character. Some sites were tiny like the road sides around Lough Ascardan (10 species), the small area of acid grassland found over the blocky talus amongst blanket bog at Sruhangarrow (13 species) or on the steep slopes above the sea cliffs of Pollet (14 species). These are unlikely to have too many more species but the large sites of Arran More, Teelin Point, Lough Salt, Melmore Head, Tramore Dunes / Marfagh Head and Sheskinmore could have many more species. Dunes and machair sites were again not good but some sites like Sheskinmore and Carrick machair had additional habitats within them that provided real interest.

Map 1 – 10km squares surveyed with number of species of *Hygrocybe* recorded



Site	H	GridRef
Arran More	19	B646146
Teelin Point	15	G59177508
Fanad: Pollet	14	C23894601
Lough Salt	14	C12022574
Melmore Head	14	C136447
Muckros	14	G62337435
Tramore Dunes / Marfagh Head	14	B993373
Malin More	13	G49268297
Sheskinmore Dunes	13	G685955
Sruhangarrow	13	C03031462
Crohy Head: Tircreg	11	B726064
Glencolumbkille: Garbhros	11	G52498530
Glengesh: Common Mountain	11	G70268724
Maghera Strand	11	G658909
Scraigs Hill	11	B92880157
Glenoory: Doagh Bay	10	C09844239
Lough Ascardan	10	B85691477
Malin Beg: Silver Strand	10	G499799
Fanad: Saldarha Head	9	C258374
Glencolumbkille: Glen Head	9	G521861
Owenwee Valley	9	G64318950
St John's Point	9	G710695
Bloody Foreland: Rinardalliff Point	8	B81483353
Derrybeg: Carrick Machair	8	B801285
Dungloe Church of Ireland	7	B76661157
Glenalla: St Colmkille Church of Ireland	7	C24012740
Kilcar: Umuskan	7	G62887814
Muckish: Meencoolasheskin	7	C00012672
Rathmullan: Fort Royal Hotel	7	C30232863
Kilmacrennan: Leiter Presbyterian Church	6	C16022042

Table 5 – Sites ranked by number of *Hygrocybe*

Site	C	GridRef
Muckros	6	G62337435
Arran More	5	B646146
Tramore Dunes / Marfagh Head	4	B993373

Table 6 – Significant sites ranked by number of *Clavariaceae*

Site	E	GridRef
Teelin Point	7	G59177508
Arran More	6	B646146
Fanad: Pollet	5	C23894601
Melmore Head	5	C136447

Table 7 – Significant sites ranked by number of *Entolomataceae*

10k	Site	H
B61	Arran More	19
C12	Kilmacrennan: Church of Ireland; Kilmacrennan: Leiter Presbyterian Church; Lough Salt	17
G58	Glencolumbkille Church of Ireland; Glencolumbkille Strand; Glencolumbkille: Doonalt; Glencolumbkille: Glen Head; Glencolumbkille: Garbhros	16
G69	Maghera Strand; Sheskinmore Dunes	16
B93	Gortahork RC Church; Tramore Dunes / Marfagh Head	15
G57	Teelin Point	15
G67	Kilcar: Umuskan; Muckros	15
C14	Melmore Head	14
C24	Fanad: Pollet	14
B70	Crohy Head: Tircreg; Dooey Dunes	13
C01	Lough Gartan: Glebe House; Sruhangarrow	13
G48	Malin More	13
B90	Fintown RC Church; Scraigs Hill	12
G78	Glengesh: Common Mountain	11
B81	Lough Ascardan	10
C04	Glenoory: Doagh Bay; Horn Head: Coastguard Hill	10
G47	Malin Beg: Silver Strand	10
B82	Derrybeg: Carrick Machair; Derrybeg RC Church; Gweedore Hotel	9
C23	Ballymastocker Dunes; Fanad: Saldarha Head	9
G68	Owenwee Valley	9
G76	St John's Point	9

Table 8 – 10km squares ranked by number of *Hygrocybe*

Vesterholt et al (1999) estimated that sites with 22+ species of waxcap (which translates to sites with 15+ in one visit) are internationally important and Genney et al (2009) wrote in the guidelines for designating SSSIs in the UK that sites with 18+ species from multiple visits and 12+ in a single visit should be considered for SSSI status. Additionally sites with 5+ species of *Clavariaceae,* 12+ species of *Entolomataceae* or 3+ species of *Geoglossaceae* should be considered. My personal thought is that some of these thresholds are a bit low for the British Isles but this would mean that a significant number of sites in West Donegal could be considered for site protection with Arran More and Teelin Point (and the cliffs to Slieve League) could be of international importance. Muckros would be worth considering for *Clavariaceae* alone but would also qualify in terms of *Hygrocybe.*

Site Images

It is important to give readers a good idea of the types of sites that may be good for waxcap grasslands hence a wide range of site photographs is given here with comments.

The fields leading out to Cronagarn on Arran More

Coastal grassland on the west coast of Arran More

Fort Royal Hotel, Rathmullan. One of the best lawns in the survey

Ballymastocker Dunes – not a great site although the golf course and machair were not searched

Maghera Dunes. The coastal grassland extended along the cliff edges which is where the most waxcap interest was

Owenwee Valley near Maghera Dunes. The small patches of acid grassland often associated with old houses are the areas of interest

Garbhros, Glencolumbkille from the beach. This could be a very promising site

Silver Strand, Malin Beg. These very tightly grazed slopes were very good indeed

Muckish: Meencoolasheskin. These small areas of acid grassland were very limited amongst the blanket bog

The summit heath on Muckish. This could support an interesting mycota (not waxcaps) but it is likely that fruiting would be much earlier in the year

Muckros fields. These were very rich fields with the earth banks being particularly good

Muckros fields from the west

Poisoned Glen. The areas of acid grassland in the glen are tiny under the main cliffs and were not productive. Probably just too acid

Lough Salt. A large area of acid grassland albeit patchy surrounds the lough and is worth a much longer look

Sheskinmore – this site offers varied dune, machair, heath and acid grassland creating a very rich mosaic

Lough Ascardan – tiny but rich areas of acid grassland along the road

The small grassy talus slopes at Bingorm are some of few possible sites in the high mountains

Sruhangarrow – small but rich areas of grassland covering the blocky talus

Species Rankings

The grassland target species were ranked according to the number of 10km squares in which they were found and compared to their rank in the other surveys.

Rank	Species	Type	Count Of 10km	Mayo Rank	West Cork Rank	Clare Rank	Irish Rank
1	Hygrocybe virginea var. virginea	H	33	1	3	2	1
2	Hygrocybe insipida	H	26	9	6	6	6
3	Hygrocybe chlorophana	H	23	2	1	3	4
3	Hygrocybe psittacina var. psittacina	H	23	3	4	7	3
5	Hygrocybe coccinea	H	22	5	6	7	5
6	Hygrocybe pratensis var. pratensis	H	21	5	11	11	7
6	Hygrocybe punicea	H	21	9	17	11	12
6	Hygrocybe quieta	H	21	18	9	5	10
6	Hygrocybe russocoriacea	H	21	4	16	4	8
10	Entoloma conferendum	E	20	11	8	36	14
10	Geoglossum fallax	G	20	11	40	15	16
12	Hygrocybe conica var. conica	H	18	8	2	1	2
13	Hygrocybe laeta var. laeta	H	17	5	31	36	15
14	Hygrocybe reidii	H	15	16	9	15	9
15	Hygrocybe conica var. conicoides	H	13	14	28	36	46
16	Clavulinopsis helvola	C	12	26	5	10	11
16	Geoglossum cookeanum	G	12	11	31	11	21
16	Hygrocybe ceracea	H	12	21	14	36	13
19	Clavulinopsis corniculata	C	11	16	31	25	17
20	Hygrocybe virginea var. fuscescens	H	9	26	-	19	34
20	Hygrocybe virginea var. ochraceopallida	H	9	14	24	7	19
20	Trichoglossum hirsutum	G	9	20	31	11	18
23	Clavulinopsis luteoalba	C	8	-	11	36	23
24	Clavaria acuta	C	7	-	49	25	33
25	Clavulinopsis fusiformis	C	6	26	40	25	25
25	Entoloma jubatum	E	6	-	40	-	46
25	Entoloma papillatum	E	6	43	-	-	65
25	Hygrocybe fornicata	H	6	38	40	19	24
25	Hygrocybe miniata	H	6	38	49	-	29
25	Hygrocybe mucronella	H	6	34	-	19	34
25	Hygrocybe splendidissima	H	6	18	24	-	36
33	Entoloma sericeum	E	5	26	20	36	39
33	Hygrocybe flavipes	H	5	34	20	36	43
33	Hygrocybe irrigata	H	5	26	17	-	20
33	Hygrocybe nitrata	H	5	43	31	30	48
33	Hygrocybe persistens var. persistens	H	5	-	40	26	22
38	Clavaria fumosa	C	4	34	49	30	28
38	Entoloma chalybaeum var. chalybaeum	E	4	-	-	-	

Rank	Species	Type	Count Of 10km	Mayo Rank	West Cork Rank	Clare Rank	Irish Rank
38	Hygrocybe calciphila	H	4	-	49	36	70
38	Hygrocybe cantharellus	H	4	22	20	30	26
38	Hygrocybe colemanniana	H	4	-	-	18	44
43	Clavaria straminea	C	3	-	31	-	70
43	Clavulinopsis laeticolor	C	3	43	49	36	30
43	Entoloma atrocoeruleum	E	3	-	49	-	70
43	Entoloma poliopus var. poliopus	E	3	43	11	19	49
43	Entoloma serrulatum	E	3	43	24	-	43
43	Hygrocybe glutinipes var. glutinipes	H	3	26	28	36	30
49	Clavulinopsis umbrinella	C	2	43	-	36	59
49	Entoloma asprellum	E	2	-	40	-	70
49	Entoloma prunuloides	E	2	38	24	-	51
49	Geoglossum atropurpureum	G	2	22	-	-	52
49	Geoglossum glutinosum	G	2	22	-	35	32
49	Hygrocybe calyptriformis	H	2	26	40	-	27
55	Clavaria fragilis	C	1	34	31	30	39
55	Clavaria zollingeri	C	1	-	-	-	75
55	Entoloma bloxamii	E	1	-	40	36	63
55	Entoloma longistriatum var. sarcitulum	E	1	-	19	-	68
55	Entoloma porphyrophaeum	E	1	-	-	-	51
55	Entoloma sericeoides	E	1	-	-	-	75
55	Entoloma undatum	E	1	-	-	-	79
55	Hygrocybe aurantiosplendens	H	1	26	59	19	36
55	Hygrocybe citrinovirens	H	1	-	59	-	55
55	Hygrocybe intermedia	H	1	-	-	-	47
55	Hygrocybe pratensis var. pallida	H	1	-	49	-	59
55	Microglossum olivaceum	G	1	43	-	-	55

Table 9 – Species ranks and comparisons with other surveys

The interesting points of note here are:

- How common *Hygrocybe insipida* was compared to the other surveys
- How common the classic acid grassland fungi of *H.pratensis, H.punicea*, *Entoloma* conferendum and *Geoglossum fallax* were
- That *Hygrocybe conica* var*. conica* was not so common as in the other surveys
- That the Fairy Clubs were more typically represented compared to the West Mayo survey where they were virtually absent as the fruiting season was almost over

Comparisons to other areas

The following tables are the up to date site rankings for the whole of Ireland based on number of *Hygrocybe* and *Clavariaceae*.

Rank	Site	County	No of Species	No visits
1	The Curragh	Kildare	32	23
2	Clare Island	West Mayo	26 (27)	8
3	Slievenacloy ASSI	Antrim	25	14
4	Crossmurrin NNR	Fermanagh	23	7
5	Binevenagh NNR	Londonderry	22	10
5	Ballyprior	Laois	22	5
7	Kebble NNR	Antrim	22	6
8	Achill Island: Keem Bay	West Mayo	20	4
8	Monawilkin ASSI	Fermanagh	20	6
10	Aghadachor	West Donegal	19	2
10	Arran More	West Donegal	19	1
12	Barnett's Park	Antrim	18	25
12	Longmore Td., 1.5km NW of The Sheddings	Antrim	18	1
12	Hillsborough Parish Church	Down	18	7
12	Dursey Island	West Cork	18	3
12	Mount Stewart Estate	Down	18	10
17	Murrevagh Maghera	West Mayo	17	4
17	Bantry House	West Cork	17	1
17	Ballynacarriga	West Cork	17	1
20	Agnew's Hill	Antrim	16	3
20	Black Head	Clare	16	2
20	Silent Valley, Mourne Mountains	Down	16	6
23	Slemish Mountain	Antrim	15	2
23	Teelin Point	West Donegal	15	1
23	Inishturk	West Mayo	15	1
23	John McSparran Memorial Hill Farm	Antrim	15	3
23	Clandeboye Estate	Down	15	7
23	Murlough NNR	Down	15	15
23	Great Heath of Maryborough	Laois	15	1
23	Knockninny ASSI	Fermanagh	15	3
23	East Torr Td, nr Torr Head	Antrim	15	1
23	Drum Manor Forest Park	Tyrone	15	7

Table 10: Top Irish Grassland sites as of 27/11/09

Sites marked in colour have been surveyed in the four recent surveys funded by the Heritage Council. The figures in brackets for Clare Island include the original survey records. Aghadachor is listed here but was not visited in this survey. There are worries about this site as motorbike scambling circuits can be seen from Google Earth on the site.

Rank	Site	County	No of Species	No Visits
1	Clare Island	West Mayo	5 (12)	8
2	Binevenagh NNR	Londonderry	8	9
2	The Curragh	Kildare	8	23
4	Bantry House	West Cork	7	1
4	Belclare and Prospect House Woods	West Mayo	7	1
4	Crom Castle Estate	Fermanagh	7	2
7	Castle Archdale Country Park	Fermanagh	6	3
7	Castle Coole	Fermanagh	6	5
7	Dursey Island	West Cork	6	3
7	John McSparran Memorial Hill Farm	Antrim	6	3
7	Muckros	West Donegal	6	1
7	Murlough NNR	Down	6	15
7	Slievenacloy ASSI	Antrim	6	12

Table 11: Waxcap grassland sites ranked by number of species of *Clavariaceae*

Recommended sites for further survey

Many of these sites were visited rather quickly and really would need much more detailed study. The following are sites that I would recommend for further survey and this would include sites that I did not get to but feel could be good.

- Arran More. There is a wonderful “jizz” about this site and I think it will be a very significant site with the grasslands around the south west heads being the best areas
- Teelin Point and the grasslands extending along the cliff edges towards Slieve League. The weather was quite appalling when we visited this site and prevented further exploration.
- Tramore Dunes / Marfagh Head at Dunfanaghy with the Marfagh Head area in particular extending for some distance to the north
- Lough Salt. Another large site worthy of much more time. The grasslands around the large crag above the lough were not reached
- Melmore Head
- Muckros. These small fields had such a range of exceptional species that it more visits will produce many more records
- Sheskinmore Dunes. This is such a huge area with a variety of habitats that it could be very good especially the acid grassland on some of the craggy inland areas
- Glencolumkille: Garbhros. If access was sorted out onto the farmed areas of this small ridge, it could prove very good
- Glengesh: Common Mountain. Heavy rain made this site slippy and we didn’t get to the areas of best potential further down the valley
- Maghera Strand – the coastal cliffs were good and also interesting in terms of ectomycorrhizal species associated with *Salix repens.*
- Bloody Foreland: Rinardalliff Point. High winds made this site dangerous and it is likely to be better
- Derrybeg: Carrick Machair. Another very varied and gigantic site. Well worth more exploration
- Dunfanaghy: Holy Cross Church. This had some very interesting species and is worth keeping an eye on

- Malin More
- Malin Beg: Silver Strand
- Gola Island. Not visited but highly likely to be good
- Inishbofin. Not visited but highly likely to be good
- Tory Island. Tory might not be good but most of the islands have worth visiting
- Rutland Island? Inishcoo?
- The summit of Muckish. Possible site for *Hygrocybe salicis-herbacea* and other arctic-alpine species but it would need a visit in September

Recommended Fungal Priority Species for County Donegal

Another 75 species were added to the County Donegal Biodiversity list on this survey. Importantly, there is now sufficient data to recommend some priority species for County Donegal. While there if often not enough historic data to assess decline (and these baseline surveys will hopefully be able to be used for such assessments in future years), one statistic that is often available is that of the decline of the habitat that these species are dependent on. Semi-natural grassland is an endangered habitat threatened by development, agricultural improvement or abandonment. For this reason, the following species have been identified as UK or Northern Ireland Priority species and could be translated to County Donegal. They are:

Species	Northern Ireland	UK
Microglossum olivaceum	Yes	Yes
Clavaria zollingeri	Yes	Yes
Phellodon melaleucus	Yes	Yes
Entoloma bloxamii	Yes	Yes
Hygrocybe calyptriformis	Yes	
Geoglossum atropurpureum	No	Yes

Most of these are grassland fungi naturally enough but *Phellodon melaleucus* is a toothed fungus found at Ards Forest Park first by Stuart Dunlop. *Hebeloma radicosum* could be considered as there is possibly something unique happening here in terms of its associations.

Conclusions

Grassland fungi are a particularly attractive group that are very threatened all over Europe due to habitat loss. Ireland, along with Great Britain, is one of the best areas in the world for these fungi and there are few species groups that we can actually say that for. The vice county of West Donegal has been shown to be rich in grassland fungi with two sites of international importance found and 10 sites would qualify for consideration for site designation under SSSI selection guidelines in the UK. To this end, site protection should be considered for some of these sites and it is my hope that these surveys will raise the profile of this beautiful group by providing the data and the context to make these decisions.

Site designation is only the first step though as the key target is to manage these sites favourably. It is unlikely that grassland fungi are identified features in the management plans for any of these sites and integrating the site management requirements of these fungi into the management plans should be looked at. Integrating their needs into agri-environment schemes would be another important step so it is important to know their ecological requirements. Advice on their management requirements can be obtained from the following sources:

- Natural England's Grassland Information Note No.4: Grassland Fungi: http://www.english-nature.org.uk/science/botany/pdf/FUNGI_INFO_NOTE.pdf

- CCW's report on Habitat Management to Conserve Fungi: http://www.ccw.gov.uk/publications--research/research--reports/habitat-management-to-conserve.aspx

In addition, the Fungal Conservation Forum produced a very attractive leaflet for landowners on Grassland fungi which is downloadable at http://www.plantlife.org.uk/uk/plantlife-saving-species-publications.html. This contains the following management guidelines for grassland fungi:

- To keep your grassland well grazed or mown so that the turf is short. Remove clippings wherever possible. Regular cutting does not appear to damage the fungi below ground, but if you want to see what you have, cut less in Autumn to allow fruiting
- To maintain existing field drainage systems where appropriate
- That fertilisers damage grassland fungi and should be avoided if possible
- To try and avoid the use of fungicides or use them sparingly, as they may inadvertently kill useful fungi or fungi you never intended to control
- To avoid using moss killers since these fungi may form intimate relationships with mosses and may even depend on them
- To avoid lime or apply it with caution since it may damage fungi

I am also willing to help give advice on any issue on grassland fungi at any time.

Images

All images of species that were taken in this survey can be used by any interested organisation for conservation purposes. These images and many others are available at www.nifg.org.uk/photos.htm or from the Picassa web album at http://picasaweb.google.com/mitchel.david/

Acknowledgements

Thanks must go to Roland McHugh for advice and records, the Northern Ireland Fungus Group for helping on the first weekend, Paul Kirk for helping with data from the FRDBI and all the landowners who allowed me access onto their land and without whom this would not have been possible. Thanks also to my wife Jolanda and children for helping with the survey work as the more eyes there are, the more fungi are found.

The financial support of the Heritage Council is also gratefully acknowledged as without this, this survey would not have been possible and I can only hope that it helps to raise awareness of this wonderful group of fungi and this beautiful county.

Bibliography

Anon. (2004) Monitoring of the chough option in the Antrim Coast, Glens and Rathlin Environmentally Sensitive Area 1998 - 2002, Queen's University Belfast, Belfast.

Arnolds E. (1980) De oecologie en Sociologie van Wasplaten (Hygrophorus subgenus Hygrocybe sensu lato). Natura:17-44.

Arnolds E. (1994) Paddestoelen en graslandbeheer, in: T. Kuyper (Ed.), Paddestoelen en natuurbeheer: wat kan de beheerder?, Wetenshappelijke Mededeling KNNV. pp. 74-89.

Bailey J.S. (1994) Nutrient balance: the key to solving the phosphate problem. Topics, Journal of the Milk Marketing Board for Northern Ireland:16-17.

Bardgett R.D., McAlister E. (1999) The measurement of soil fungal : bacterial biomass ratios as an indicator of ecosystem self-regulation in temperate meadow grasslands. Biology and Fertility of Soils 29:282-290.
Boertmann D. (1995) The Genus Hygrocybe The Danish Mycological society, Copenhagen.
Dahlberg A., Croneborg H. (2003) 33 threatened fungi in Europe: complementary and revised information on candidates for listing in Appendix 1 of the Bern Conventtion, European Council for the Conservation of Fungi.
Feehan J., McHugh R. (1992) The Curragh of Kildare as a Hygrocybe grassland. Ir.Nat.J. 24:13-17.
Griffith G.W., Easton G.L., Jones A.W. (2002) Ecology and Diversity of Waxcap (Hygrocybe spp.) Fungi. Bot.J.Scotl. 54:7-22.
Griffith G.W., Gamarra J.P., Holden E.M., Mitchel D.G., Graham A., Evans D.A., Evans S.E., Aron C., Noordeloos M.E., Kirk P.M., Smith S.L., Woods R.G., Hale A.D., Easton G.L., Ratkowsky D.A., Stevens D.P. (In Press) The international conservation importance of Welsh 'waxcap' grasslands. Biological Conservation.
Jordal J.B. (1997) Sopp i naturbeitemarker i Norge. En kunnskapsstatus over utbredelse, okologi, indikatorverdi og trusler i et europeisk perspektiv. Direktoratet for naturforvaltning, Trondheim.
Knudsen H., Vesterholt J. (2008) Funga Nordica Nordsvamp, Copenhagen.
Legon N.W., Henrici A. (2005) Checklist of the British & Irish Basidiomycota Royal Botanic Gardens Kew.
Marren P. (1998) Fungal flowers: the Waxcaps and their world. British Wildlife 9:164-172.
McHugh R., Mitchel D., Wright M., Anderson R. (2001) The fungi of Irish Grasslands and their value for nature conservation. Biology & Environment 101B:225-242.
Mitchel D. (2006) Survey of the Grassland Fungi of County Clare, Heritage Council.
Mitchel D. (2007) Survey of the Grassland Fungi of the Vice County of West Cork, Heritage Council.
Mitchel D. (2008) Survey of the Grassland Fungi of the Vice County of West Mayo Heritage Council.
Newton A.C., Davy L.M., Holden E., Silverside A., Watling R., Ward S.D. (2002) Status, distribution and definition of mycologically important grasslands in Scotland. Biological Conservation 111.
Nitare J. (1988) Jordtungor, en svampgrupp pa tillbakagang i naturliga fodermarker. Svensk. Bot. Tidskr.:485-489.
Öster M. (2008) Low congruence between the diversity of waxcaps (Hygrocybe spp.) fungi and vascular plants in semi-natural grasslands. Basic and Applied Ecology 9:514-522.
Rald E. (1985) Vokshatte som indikatorarter for mykologisk vaerdifulde overdrevslokaliteter. Svampe:1-9.
Ridge I. (1997) Simplified key to Geoglossum, North West Fungus Group.
Rotheroe M. (1999) Mycological survey of selected semi-natural grasslands in Carmarthenshire, Countryside Council for Wales.
Rotheroe M., Newton A., Evans S., Feehan J. (1996) Waxcap-grassland Survey. Mycologist 10:23-25.
Sheppard R. (2009) Biodiversity Species List for County Donegal, Donegal County Council.
Spooner B. (1998) Keys to the British Geoglossaceae (draft). Unpublished.
Vesterholt J., Boertmann D., Tranberg H. (1999) 1998 - et usaedvanlig godt ar for overdrevssvampe. Svampe:36-44.

Appendix 1 – 10km and Site Details

B60

Sites Searched: Not visited

Hygrocybe 0 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

Possible Sites: Roaninish island - inaccessible

B61

Sites Searched: Arran More

Hygrocybe 19 ***Clavariaceae*** 5 ***Entolomaceae*** 6 ***Geoglossaceae*** 1 ***Others:*** 1

The island of Arran More with the best areas being the south and west of the island. The small beach at Rossillion Bay and point at Rassag could also be worth searching.

Grassland Target Species Recorded

Clavulinopsis corniculata
Clavulinopsis helvola
Clavulinopsis laeticolor
Clavulinopsis luteoalba
Clavulinopsis umbrinella
Dermoloma cuneifolium var. cuneifolium
Entoloma atrocoeruleum
Entoloma chalybaeum var. chalybaeum
Entoloma conferendum
Entoloma papillatum
Entoloma prunuloides
Entoloma sericeum
Geoglossum fallax
Hygrocybe psittacina var. psittacina
Hygrocybe punicea
Hygrocybe quieta
Hygrocybe reidii
Hygrocybe russocoriacea
Hygrocybe splendidissima
Hygrocybe virginea var. virginea
Hygrocybe cantharellus
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe flavipes
Hygrocybe fornicata
Hygrocybe insipida
Hygrocybe laeta var. laeta
Hygrocybe miniata
Hygrocybe nitrata
Hygrocybe pratensis var. pratensis

Site Details:

Site: *Arran More*

Date Visited: 28/10/20 **GridRef:** B646146

H: 19 **C:** 5 **E:** 6 **G:** 1 **O** 0

An exceptional site - the waxcaps were found over a wide area and this site is likely to even better. The area searched started at the end of the road going out to the south western point on Arran More at Rannagh. The first sheep grazed fields past the end of the road were some of the best. They are steep with patches of heath within the acid grassland grading into wetter areas where it is less steep. The interest continued all around the head at Cronagarn and along the western cliffs. The best sites were found at B64271517, B64441572, B64901706, B65011754 and B65461746.

The notable species were *Hygrocybe nitrata, Clavulinopsis umbrinella* and *Entoloma prunuloides*.

Agaricus urinascens	Macro Mushroom
Bovista plumbea	Grey Puffball
Clavulinopsis corniculata	Meadow Coral
Clavulinopsis helvola	Yellow Club
Clavulinopsis laeticolor	Handsome Club
Clavulinopsis luteoalba	Apricot Club
Clavulinopsis umbrinella	Beige Coral
Coprinus comatus	Shaggy Inkcap
Dermoloma cuneifolium var. cuneifolium	Crazed Cap
Entoloma atrocoeruleum	
Entoloma chalybaeum var. chalybaeum	Indigo Pinkgill
Entoloma conferendum	Star Pinkgill
Entoloma papillatum	Papillate Pinkgill
Entoloma prunuloides	Mealy Pinkgill
Entoloma sericeum	Silky Pinkgill
Geoglossum fallax	
Gloniella adianti	
Hygrocybe cantharellus	Goblet Waxcap
Hygrocybe ceracea	Butter Waxcap
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe flavipes	Yellow Foot Waxcap
Hygrocybe fornicata	Earthy Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe miniata	Vermilion Waxcap
Hygrocybe nitrata	Nitrous Waxcap

Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe reidii	Honey Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe splendidissima	Splendid Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Lycoperdon nigrescens	Dusky Puffball
Melanoleuca polioleuca f. polioleuca	Common Cavalier
Mucilago crustacea	
Panaeolus acuminatus	Dewdrop Mottlegill
Phragmidium violaceum	Violet Bramble Rust
Psilocybe coprophila	
Psilocybe semilanceata	Liberty Cap
Rhytisma acerinum	Sycamore Tarspot
Stropharia pseudocyanea	Peppery Roundhead
Stropharia semiglobata	Dung Roundhead

B70

Sites Searched: Crohy Head: Tircreg; Dooey Dunes

Hygrocybe 13 ***Clavariaceae*** 3 ***Entolomaceae*** 1 ***Geoglossaceae*** 3 ***Others:*** 0

The acid grassland on Crohy Head are likely to be the best areas. The grassland areas found at Tircreg were small and the some fields beside the road at Tievearragan Hill near Crohy Head itself would also be worth searching. The Dooey Dune system is a huge area of semi-natural grassland but it proved of limited interest for grassland fungi.

Grassland Target Species Recorded

Clavaria acuta

Clavulinopsis corniculata

Clavulinopsis helvola

Entoloma conferendum

Geoglossum cookeanum

Geoglossum fallax

Trichoglossum hirsutum

Hygrocybe calciphila

Hygrocybe cantharellus

Hygrocybe chlorophana

Hygrocybe coccinea

Hygrocybe conica var. conica

Hygrocybe conica var. conicoides

Hygrocybe insipida

Hygrocybe laeta var. laeta

Hygrocybe mucronella

Hygrocybe persistens var. persistens

Hygrocybe pratensis var. pratensis

Hygrocybe quieta

Hygrocybe russocoriacea

Hygrocybe virginea var. fuscescens

Hygrocybe virginea var. ochraceopallida

Hygrocybe virginea var. virginea

Site Details:

Site: *Crohy Head: Tircreg*

Date Visited: 01/11/20 **GridRef:** B726064

H: 11 **C:** 3 **E:** 1 **G:** 0 **O** 0

There were small patches of grassland associated with ruined houses on the slopes at Tircreg. Other areas worth searching could be some of the fields at Crohy Head itself at B71360854.

Agaricus silvaticus	Blushing Wood Mushroom
Clavaria acuta	Pointed Club
Clavulinopsis corniculata	Meadow Coral
Clavulinopsis helvola	Yellow Club
Cystoderma amianthinum	Earthy Powdercap
Entoloma conferendum	Star Pinkgill
Hebeloma crustuliniforme	Poisonpie
Hygrocybe cantharellus	Goblet Waxcap
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe mucronella	Bitter Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Laccaria laccata	Deceiver
Mycena leptocephala	Nitrous Bonnet
Panaeolus acuminatus	Dewdrop Mottlegill
Stropharia semiglobata	Dung Roundhead

Site: *Dooey Dunes*

Date Visited: 24/10/20 **GridRef:** B755019

H: 5 **C:** 1 **E:** 0 **G:** 3 **O** 0

An enormous set of dunes, this site was visited twice, by the Northern Ireland Fungus Group on October 24th and DM on November 1st. The rarely recorded *Hygrocybe calciphila* was found and *Peziza arvernensis* is also of note. However for the rest only the usual typical mycota was found. Also despite the large areas of Salix repens, nothing was found here either although the main fruiting period of ectomycorrhizal fungi on Salix repens

Agaricus bernardii	
Clavaria acuta	Pointed Club

Clitocybe dealbata	Ivory Funnel
Geoglossum cookeanum	
Geoglossum fallax	
Hygrocybe calciphila	
Hygrocybe conica var. conicoides	Dune Waxcap
Hygrocybe mucronella	Bitter Waxcap
Hygrocybe persistens var. persistens	Persistent Waxcap
Hygrocybe virginea var. fuscescens	
Hygrocybe virginea var. ochraceopallida	
Hygrocybe virginea var. virginea	Snowy Waxcap
Lepista nuda	Wood Blewit
Melanoleuca cinereifolia	
Mucilago crustacea	
Panaeolus papilionaceus var. papilionaceus	Petticoat Mottlegill
Peziza ammophila	Dune Cup
Peziza arvernensis	
Trichoglossum hirsutum	Hairy Earthtongue

B71

Sites Searched: Annagary RC Church; Dungloe Church of Ireland; Kincasslagh RC

Hygrocybe 7 ***Clavariaceae*** 0 ***Entolomaceae*** 2 ***Geoglossaceae*** 2 ***Others:*** 0

Churchyards and the dunes at Portacurry were the best sites found in this wet square. The machair behind the foredunes at Portacurry was not searched. The best sites are likely to be the islands of Rutland Island and Inishcoo but it was not possible to organise access onto these islands.

Grassland Target Species Recorded

Entoloma conferendum
Entoloma jubatum
Geoglossum fallax
Trichoglossum hirsutum
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe conica var. conicoides
Hygrocybe insipida
Hygrocybe laeta var. laeta
Hygrocybe punicea
Hygrocybe russocoriacea
Hygrocybe virginea var. ochraceopallida
Hygrocybe virginea var. virginea

Site Details:

Site: *Annagary RC Church*

Date Visited: 03/11/20 **GridRef:** B79601938

H: 1 **C:** 0 **E:** 0 **G:** 0 **O** 0

A small area of grassland that is unlikely to be of significant interest.

Hygrocybe virginea var. virginea	Snowy Waxcap
Panaeolina foenisecii	Brown Mottlegill

Site: *Dungloe Church of Ireland*

Date Visited: 01/11/20 **GridRef:** B76661157

H: 7 **C:** 0 **E:** 2 **G:** 1 **O** 0

One of the best churchyards in this survey but still unlikely to be of significant interest.

Armillaria gallica	Bulbous Honey Fungus
Entoloma conferendum	Star Pinkgill
Entoloma jubatum	Sepia Pinkgill
Geoglossum fallax	
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Rhytisma acerinum	Sycamore Tarspot

Site: *Kincasslagh RC Church*

Date Visited: 25/10/20 **GridRef:** B74341912

H: 1 **C:** 0 **E:** 1 **G:** 1 **O** 0

Of limited interest for grassland fungi.

Entoloma conferendum	Star Pinkgill
Geoglossum fallax	
Hygrocybe virginea var. virginea	Snowy Waxcap

Site: *Portacurry Dunes*

Date Visited: 25/10/20 **GridRef:** B716177

H: 2 **C:** 0 **E:** 0 **G:** 2 **O** 0

The machair behind the dunes was not searched as was fenced off however, fruiting was not observed from over the fence. The areas of open access supported the usual limited mycota. However, the foredunes supported the notable *Coprinopsis ammophilae* and *Pluteus griseoluridus*.

Bolbitius vitellinus	Yellow Fieldcap
Coprinopsis ammophilae	Dune Inkcap
Geoglossum fallax	
Hygrocybe conica var. conicoides	Dune Waxcap
Hygrocybe virginea var. ochraceopallida	
Hygrocybe virginea var. virginea	Snowy Waxcap

Lepista nuda	Wood Blewit
Pluteus griseoluridus	
Psathyrella ammophila	Dune Brittlestem
Psilocybe coprophila	
Puccinia poarum	
Trichoglossum hirsutum	Hairy Earthtongue

B72

Sites Searched: Carrickfin Dunes

Hygrocybe 3 ***Clavariaceae*** 0 ***Entolomaceae*** 1 ***Geoglossaceae*** 3 ***Others:*** 0

The dunes of Carrickfin and Cruit Island were disappointing. The golf course itself was likely to be the best place on the island. The dunes at Mullaghderg would be worth visiting but the best possibility are the islands especially Gola and Inishmeane. Owey Island did not look so

Grassland Target Species Recorded

Entoloma conferendum

Geoglossum cookeanum

Geoglossum fallax

Trichoglossum hirsutum

Hygrocybe conica var. conicoides

Hygrocybe persistens var. persistens

Hygrocybe virginea var. fuscescens

Hygrocybe virginea var. virginea

Site Details:

Site: *Carrickfin Dunes*

Date Visited: 25/10/20 **GridRef:** B779218

H: 3 **C:** 0 **E:** 0 **G:** 3 **O** 0

There is a narrow band of dunes and dune grassland between the beach and the airport. The best area for fungal interest are the large slacks at the northern end but typical of so many dune systems in Ireland, despite seemingly good habitat, fruiting was restricted to a limited range of species. The notable record of the small pink clubs of *Typhula micans* on a leaf was the best find.

Ascobolus carbonarius	
Cheilymenia granulata	
Geoglossum cookeanum	
Geoglossum fallax	
Hygrocybe conica var. conicoides	Dune Waxcap
Hygrocybe persistens var. persistens	Persistent Waxcap
Hygrocybe virginea var. fuscescens	
Hygrocybe virginea var. virginea	Snowy Waxcap
Panaeolina foenisecii	Brown Mottlegill
Peziza ammophila	Dune Cup
Psathyrella ammophila	Dune Brittlestem

Psilocybe coprophila	
Trichoglossum hirsutum	Hairy Earthtongue
Typhula micans	

B73

Sites Searched: Not visited

Hygrocybe 0 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

Only possible site is the island of Inishsirrer but this needs good weather and a boat trip to be organised.

B80

Sites Searched: Doochary RC Church

Hygrocybe 3 ***Clavariaceae*** 1 ***Entolomaceae*** 0 ***Geoglossaceae*** 1 ***Others:*** 0

A very boggy square. The commonages on Croaghleheen and Croaghleconnel are likely to be the best sites but they are not too hopeful.

Grassland Target Species Recorded

Clavulinopsis corniculata	*Hygrocybe russocoriacea*
Geoglossum fallax	*Hygrocybe virginea var. virginea*
Hygrocybe ceracea	

Site Details:

Site: *Doochary RC Church*

Date Visited: 26/10/20 **GridRef:** B86590623

H: 3 **C:** 1 **E:** 0 **G:** 1 **O** 0

A small churchyard with moderate interest for grassland fungi.

Armillaria gallica	Bulbous Honey Fungus
Clavulinopsis corniculata	Meadow Coral
Geoglossum fallax	
Hebeloma crustuliniforme	Poisonpie
Hygrocybe ceracea	Butter Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap

B81

Sites Searched: Lough Ascardan

Hygrocybe 10 ***Clavariaceae*** 3 ***Entolomaceae*** 1 ***Geoglossaceae*** 1 ***Others:*** 0

The very small patches of grassland along the road around Crockator were reasonably productive and could be better. The other area worth searching are some of the fields and commonage at Crovehy North.

Grassland Target Species Recorded

Clavaria acuta

Clavulinopsis corniculata

Clavulinopsis helvola

Entoloma conferendum

Geoglossum fallax

Hygrocybe chlorophana

Hygrocybe conica var. conica

Hygrocybe insipida

Hygrocybe laeta var. laeta

Hygrocybe mucronella

Hygrocybe nitrata

Hygrocybe pratensis var. pratensis

Hygrocybe quieta

Hygrocybe russocoriacea

Hygrocybe virginea var. virginea

Site Details:

Site: *Lough Ascardan*

Date Visited: 26/10/20 **GridRef:** B85691477

H: 10 **C:** 3 **E:** 1 **G:** 1 **O** 0

A very small strip of acid grassland alongside the road surrounded by bog and heath. The construction of the road has left small areas beside the road that are better drained and these are rich in waxcaps showing the importance of drainage in waxcap locations. The two fields on the north western corner of the lough were not searched due to difficult access with the stream overflowing but these could be good. Notable fungi include Hygrocybe nitrata and the first Irish record for the white viscid *Stropharia albonitens*.

Clavaria acuta	Pointed Club
Clavulinopsis corniculata	Meadow Coral
Clavulinopsis helvola	Yellow Club
Cystoderma amianthinum	Earthy Powdercap
Entoloma conferendum	Star Pinkgill
Geoglossum fallax	
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe mucronella	Bitter Waxcap
Hygrocybe nitrata	Nitrous Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Leptosphaeria acuta	Nettle Rash

Lichenomphalia umbellifera	Heath Navel
Mycena epipterygia var. epipterygia	Yellowleg Bonnet
Psilocybe coprophila	
Stropharia albonitens	
Stropharia pseudocyanea	Peppery Roundhead
Stropharia semiglobata	Dung Roundhead

B82

Sites Searched: Derrybeg: Carrick Machair; Derrybeg RC Church; Gweedore Hotel

Hygrocybe 9 ***Clavariaceae*** 1 ***Entolomaceae*** 1 ***Geoglossaceae*** 1 ***Others:*** 0

The large area of dune / machair / acid grassland mosaic at Carrick and Glashagh Upper is the best area in this wet square and will be better than found on this visit.

Grassland Target Species Recorded

Clavulinopsis corniculata

Entoloma poliopus var. poliopus

Geoglossum cookeanum

Hygrocybe calciphila

Hygrocybe conica var. conicoides

Hygrocybe insipida

Hygrocybe laeta var. laeta

Hygrocybe nitrata

Hygrocybe persistens var. persistens

Hygrocybe pratensis var. pratensis

Hygrocybe psittacina var. psittacina

Hygrocybe virginea var. fuscescens

Hygrocybe virginea var. ochraceopallida

Hygrocybe virginea var. virginea

Site Details:

Site: *Derrybeg RC Church*

Date Visited: 02/11/20 **GridRef:** B81662564

H: 1 **C:** 0 **E:** 0 **G:** 0 **O** 0

There is a very restricted area of grassland and it is unlikely to be of significant interest.

Hygrocybe psittacina var. psittacina	Parrot Waxcap

Site: *Derrybeg: Carrick Machair*

Date Visited: 02/11/20 **GridRef:** B801285

H: 8 **C:** 1 **E:** 1 **G:** 1 **O** 0

An enormous area of dunes, machair and acid grassland mosaic. Granite outcrops lead to a rolling terrain which creates the mosaic of habitats which in turn mean that this is a much more interesting coastal site. The presence of *Hygrocybe nitrata* and *H.calciphila* show that this is a site worth exploring in detail.

Asteroma impressum

Clavulinopsis corniculata	Meadow Coral
Coprinopsis niveus	Snowy Inkcap
Entoloma poliopus var. poliopus	
Geoglossum cookeanum	
Hygrocybe calciphila	
Hygrocybe conica var. conicoides	Dune Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe nitrata	Nitrous Waxcap
Hygrocybe persistens var. persistens	Persistent Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe virginea var. fuscescens	
Hygrocybe virginea var. ochraceopallida	
Hygrocybe virginea var. virginea	Snowy Waxcap
Lepista nuda	Wood Blewit
Volvariella gloiocephala	Stubble Rosegill

Site: *Gweedore Hotel*

Date Visited: 02/11/20 **GridRef:** B85842240

H: 0 **C:** 0 **E:** 0 **G:** 0 **O** 0

Unlikely to be of significant interest for grassland fungi but did contain the interesting non target species of *Pholiota conissans* and *Macrocystidia cucumis*

Armillaria gallica	Bulbous Honey Fungus
Lacrymaria lacrymabunda	Weeping Widow
Macrocystidia cucumis	Cucumber Cap
Pholiota conissans	
Phragmidium violaceum	Violet Bramble Rust
Taphrina alni	Alder Tongue

B83

Sites Searched: Bloody Foreland: Rinardalliff Point; Magheraroarty: Dooey Peninsula

Hygrocybe 8 ***Clavariaceae*** 2 ***Entolomaceae*** 3 ***Geoglossaceae*** 2 ***Others:*** 0

The mountain of Bloody Foreland itself is too acid and boggy to be of interest but the fields to the west and down to Rinardalliff Point are interesting and will yield more species. The best possible sites are the islands of Inishbofin, Inishdooey and Inishbeg but good weather and an organised boat is required to visit these islands.

Grassland Target Species Recorded

Clavulinopsis corniculata

Clavulinopsis helvola

Entoloma conferendum

Entoloma jubatum

Entoloma serrulatum

Geoglossum cookeanum

Geoglossum fallax

Hygrocybe chlorophana

Hygrocybe coccinea

Hygrocybe conica var. conica

Hygrocybe conica var. conicoides

Hygrocybe insipida

Hygrocybe punicea

Hygrocybe quieta

Hygrocybe russocoriacea

Hygrocybe virginea var. ochraceopallida

Hygrocybe virginea var. virginea

Site Details:

Site: *Bloody Foreland: Rinardalliff Point*

Date Visited: 04/11/20 **GridRef:** B81483353

H: 8 **C:** 2 **E:** 3 **G:** 1 **O** 0

An interesting area of acid grassland leading out to the point. Severe winds made foraying near the cliffs too dangerous so this site could well hold more species. Some of the enclosed fields around Bloody Foreland could well be very interesting as well.

Agaricus urinascens	Macro Mushroom
Clavulinopsis corniculata	Meadow Coral
Clavulinopsis helvola	Yellow Club
Clitocybe fragrans	Fragrant Funnel
Entoloma conferendum	Star Pinkgill
Entoloma jubatum	Sepia Pinkgill
Entoloma serrulatum	Blue Edge Pinkgill
Geoglossum fallax	
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Lepista nuda	Wood Blewit
Lepista panaeola	
Marasmius oreades	Fairy Ring Champignon
Stropharia pseudocyanea	Peppery Roundhead

Site: *Magheraroarty: Dooey Peninsula*

Date Visited: 04/11/20 **GridRef:** B895330

H: 2 **C:** 0 **E:** 0 **G:** 1 **O** 0

A very large dune system with machair behind the dunes. Appalling weather cut short this visit and in reality the site was hardly visited.

Bolbitius vitellinus	Yellow Fieldcap
Geoglossum cookeanum	
Hygrocybe conica var. conicoides	Dune Waxcap
Hygrocybe virginea var. ochraceopallida	
Hygrocybe virginea var. virginea	Snowy Waxcap
Volvariella gloiocephala	Stubble Rosegill

B84

Sites Searched: Not visited

Hygrocybe 0 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

Possible sites: Tory Island. It was really hoped to visit Tory but the high winds or other commitments meant that it was not to be.

B90

Sites Searched: Fintown RC Church; Scraigs Hill

Hygrocybe 12 ***Clavariaceae*** 1 ***Entolomaceae*** 1 ***Geoglossaceae*** 1 ***Others:*** 0

Scraigs Hill is undoubtedly the best site in this square.

Grassland Target Species Recorded

Clavaria acuta
Entoloma conferendum
Geoglossum fallax
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe irrigata
Hygrocybe laeta var. laeta
Hygrocybe pratensis var. pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe punicea
Hygrocybe quieta
Hygrocybe reidii
Hygrocybe russocoriacea
Hygrocybe virginea var. virginea

Site Details:

Site: *Fintown RC Church*

Date Visited: 03/11/20 **GridRef:** B92610234
H: 3 **C:** 0 **E:** 0 **G:** 1 **O** 0

An interesting area of grassland leading down to the lough shore that may hold some more species of interest.

Armillaria gallica	Bulbous Honey Fungus
Geoglossum fallax	
Hygrocybe pratensis var. pratensis	Meadow Waxcap

Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Lepista nuda	Wood Blewit
Melanoleuca polioleuca f. polioleuca	Common Cavalier
Mucilago crustacea	
Phragmidium violaceum	Violet Bramble Rust
Xylaria hypoxylon	Candlesnuff Fungus

Site: *Scraigs Hill*

Date Visited: 03/11/20 **GridRef:** B92880157

H: 11 **C:** 1 **E:** 1 **G:** 1 **O** 0

Steep acid grassland leading up to the crags of Scraigs Hill. There are good areas of grassland here but fruiting was not abundant and it was surprising that this was not a better site.

Clavaria acuta	Pointed Club
Cordyceps militaris	Scarlet Caterpillarclub
Cystoderma amianthinum	Earthy Powdercap
Entoloma conferendum	Star Pinkgill
Geoglossum fallax	
Hygrocybe ceracea	Butter Waxcap
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe irrigata	Slimy Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe reidii	Honey Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Lichenomphalia umbellifera	Heath Navel
Panaeolus acuminatus	Dewdrop Mottlegill
Stropharia semiglobata	Dung Roundhead

B91

Sites Searched: Dunlewey Church of Ireland; Poisoned Glen

Hygrocybe 5 ***Clavariaceae*** 0 ***Entolomaceae*** 1 ***Geoglossaceae*** 0 ***Others:*** 0

A very wet boggy square. The high mountains are too boggy and acid to be of interest. Thin strips of grassland around the shore of Lough Barra could be worth visiting and some of the steep talus slopes high on the slopes of Bingorm could yield a few species.

Grassland Target Species Recorded

Entoloma conferendum

Hygrocybe coccinea

Hygrocybe conica var. conica

Hygrocybe insipida

Hygrocybe psittacina var. psittacina

Hygrocybe punicea

Site Details:

Site: *Dunlewey Church of Ireland*

Date Visited: 02/11/20 **GridRef:** B92641919

H: 2 **C:** 0 **E:** 0 **G:** 0 **O** 0

The ruined church at Dunlewey is very wet and unlikely to be of further interest.

Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe punicea	Crimson Waxcap
Panaeolina foenisecii	Brown Mottlegill

Site: *Poisoned Glen*

Date Visited: 02/11/20 **GridRef:** B944167

H: 4 **C:** 0 **E:** 1 **G:** 0 **O** 0

This extremely wet glen is unlikely to be of further interest. The only areas were very small patches of grassland at the base of the cliffs in the glen at B94551694 and B94721704 and these only had a very restricted range of species. The only other possible area would be some of the grazed banks of the river leading out of the glen at B94171712 but these were not searched.

Entoloma conferendum	Star Pinkgill
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Rhopographus filicinus	Bracken Map
Stereum rugosum	Bleeding Broadleaf Crust
Stropharia semiglobata	Dung Roundhead

B92

Sites Searched: Money Beg RC Church

Hygrocybe 2 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

Another very wet high square with few waxcaps found. The crags on Aghla More overlooking Altan Lough and on Crockanalaragagh overlooking Lough Aluirg could be good but both of these would involve a very long walk in.

Grassland Target Species Recorded

Hygrocybe conica var. conica

Hygrocybe virginea var. virginea

Site Details:

Site: *Money Beg RC Church*

Date Visited: 02/11/20 **GridRef:** B90562050

H: 2 **C:** 0 **E:** 0 **G:** 0 **O** 0

A small area of wet grassland that is unlikely to be of significant interest.

Galerina vittiformis	Hairy Leg Bell
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Panaeolina foenisecii	Brown Mottlegill

B93

Sites Searched: Gortahork RC Church; Tramore Dunes / Marfagh Head

Hygrocybe 15 ***Clavariaceae*** 5 ***Entolomaceae*** 2 ***Geoglossaceae*** 3 ***Others:*** 0

The dunes of Dooey Peninsula and Falcarragh are possible areas not searched but the coastal grassland at Marfagh Head and to the north of this should be revisited and searched much more intensively as it is good.

Grassland Target Species Recorded

Clavaria acuta

Clavulinopsis corniculata

Clavulinopsis helvola

Clavulinopsis laeticolor

Clavulinopsis luteoalba

Entoloma conferendum

Entoloma prunuloides

Geoglossum atropurpureum

Geoglossum cookeanum

Geoglossum fallax

Hygrocybe ceracea

Hygrocybe chlorophana

Hygrocybe coccinea

Hygrocybe colemanniana

Hygrocybe conica var. conicoides

Hygrocybe fornicata

Hygrocybe insipida

Hygrocybe mucronella

Hygrocybe pratensis var. pallida

Hygrocybe pratensis var. pratensis

Hygrocybe psittacina var. psittacina

Hygrocybe punicea

Hygrocybe quieta

Hygrocybe russocoriacea

Hygrocybe virginea var. virginea

Site Details:

Site: *Gortahork RC Church*

Date Visited: 06/11/20 **GridRef:** B91503045

H: 3 **C:** 1 **E:** 1 **G:** 1 **O** 0

An interesting area of grassland that is probably much better for ectomycorrhizal fungi than grassland fungi with all the surrounding Sitka

Clavaria acuta	Pointed Club
Clavulina rugosa	Wrinkled Club
Clitocybe fragrans	Fragrant Funnel
Cystoderma amianthinum	Earthy Powdercap
Entoloma conferendum	Star Pinkgill
Entoloma prunuloides	Mealy Pinkgill
Geoglossum fallax	
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Lactarius deterrimus	False Saffron Milkcap
Russula queletii	Fruity Brittlegill

Site: *Tramore Dunes / Marfagh Head*

Date Visited: 06/11/20 **GridRef:** B993373

H: 14 **C:** 4 **E:** 1 **G:** 3 **O** 0

Another gigantic dune system that with its varied topology with sand blown up the hill with areas of bare rock and acid grassland is worth a much longer visit. The best area for waxcaps was the acid grassland on Marfagh Head to the north of the Tramore Strand which in itself is an enormous area which could be further searched to the north of the head. Whether this is actually one site or two could be debated but the habitats do merge. If Marfagh Head was a separate site, only *Hygrocybe mucronella* was not recorded from this area in the list below. Notable species were *H.pratensis var. pallida* and

Bovista plumbea	Grey Puffball
Clavulinopsis corniculata	Meadow Coral
Clavulinopsis helvola	Yellow Club
Clavulinopsis laeticolor	Handsome Club
Clavulinopsis luteoalba	Apricot Club
Entoloma conferendum	Star Pinkgill
Geoglossum atropurpureum	Dark-purple Earthtongue
Geoglossum cookeanum	
Geoglossum fallax	
Hygrocybe ceracea	Butter Waxcap
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe colemanniana	Toasted Waxcap
Hygrocybe conica var. conicoides	Dune Waxcap
Hygrocybe fornicata	Earthy Waxcap

Hygrocybe mucronella	Bitter Waxcap
Hygrocybe pratensis var. pallida	Pale Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Lepista nuda	Wood Blewit
Lepista panaeola	
Panaeolus acuminatus	Dewdrop Mottlegill

B94

Sites Searched: Not visited

Hygrocybe 0 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

A very small bit of land within this square with the farm at Crockaclogher, Horn Head the only possible site.

C00

Sites Searched: Not visited

Hygrocybe 0 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

A small area within West Donegal and nothing of interest identified in the pre-survey

C01

Sites Searched: Lough Gartan: Glebe House; Sruhangarrow

Hygrocybe 13 ***Clavariaceae*** 0 ***Entolomaceae*** 3 ***Geoglossaceae*** 2 ***Others:*** 0

A wet square with small drier areas of acid grassland like Sruhagarrow few and far between. Fields to the south west of Sruhagarrow at the end of the road could be good.

Grassland Target Species Recorded

Entoloma chalybaeum var. chalybaeum

Entoloma conferendum

Entoloma sericeum

Geoglossum fallax

Geoglossum glutinosum

Hygrocybe ceracea

Hygrocybe chlorophana

Hygrocybe coccinea

Hygrocybe conica var. conica

Hygrocybe flavipes

Hygrocybe insipida

Hygrocybe laeta var. laeta

Hygrocybe psittacina var. psittacina

Hygrocybe punicea

Hygrocybe quieta

Hygrocybe reidii

Hygrocybe russocoriacea *Hygrocybe splendidissima*

Site Details:

Site: *Lough Gartan: Glebe House*

Date Visited: 26/10/20 **GridRef:** C06231742

H: 2 **C:** 0 **E:** 1 **G:** 0 **O** 0

An estate lawn of a property managed positively for nature conservation. The lawn itself is very wet and only small areas are likely to be good for waxcaps. It would be important to remove the grass cuttings which are currently left in situ if nutrient levels are to become more favourable for waxcaps. As a woodland site, this location is likely to be very good for ectomycorrhizal fungi.

Agaricus macrocarpus	
Cantharellus tubiformis var. tubiformis	Trumpet Chanterelle
Coprinus comatus	Shaggy Inkcap
Entoloma conferendum	Star Pinkgill
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Inocybe geophylla var. lilacina	Lilac Fibrecap
Inocybe lanuginosa	Woolly Fibrecap
Laccaria laccata	Deceiver
Lactarius blennius	Beech Milkcap
Lactarius glyciosmus	Coconut Milkcap
Rhytisma acerinum	Sycamore Tarspot
Rhytisma salicinum	
Russula betularum	Birch Brittlegill
Russula cyanoxantha	Charcoal Burner
Russula nigricans	Blackening Brittlegill
Scleroderma bovista	Potato Earthball

Site: *Sruhangarrow*

Date Visited: 26/10/20 **GridRef:** C03031462

H: 13 **C:** 0 **E:** 3 **G:** 2 **O** 0

A small area of acid grassland in an area of blocky talus only about 1 hectare in size that is surrounded by blanket bog. Waxcap fruiting was abundant in this small island of grassland and ultimately the spatial limitation of the site will mean that numbers are unlikely to be too much

Cordyceps militaris	Scarlet Caterpillarclub
Cystoderma amianthinum	Earthy Powdercap
Entoloma chalybaeum var. chalybaeum	Indigo Pinkgill
Entoloma conferendum	Star Pinkgill

Entoloma sericeum	Silky Pinkgill
Exidia recisa	
Fuligo septica	
Geoglossum fallax	
Geoglossum glutinosum	
Hygrocybe ceracea	Butter Waxcap
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe flavipes	Yellow Foot Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe reidii	Honey Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe splendidissima	Splendid Waxcap
Laccaria laccata	Deceiver
Mucilago crustacea	
Panaeolus acuminatus	Dewdrop Mottlegill

C02

Sites Searched: Muckish: Meencoolasheskin; Muckish: Summit

Hygrocybe 7 ***Clavariaceae*** 1 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

This square includes the main part of Glenveagh National Park which was not visited due to time restrictions. There are possible areas here although the steep slopes on either side of Lough Beagh did not look hopeful. Most of Muckish itself is too acid and wet. The best possible area could be some of the fields on Loughaskerry and Murray's Town in the south

Grassland Target Species Recorded

Clavulinopsis fusiformis

Hygrocybe coccinea

Hygrocybe insipida

Hygrocybe laeta var. laeta

Hygrocybe psittacina var. psittacina

Hygrocybe punicea

Hygrocybe quieta

Hygrocybe reidii

Site Details:

Site: *Muckish: Meencoolasheskin*

Date Visited: 05/11/20 **GridRef:** C00012672

H: 7 **C:** 1 **E:** 0 **G:** 0 **O** 0

Small patches of acid grassland occur below the road to Falcarragh under Muckish. The limited size of these patches mean they are unlikely to hold significant numbers of waxcaps. There are other possible areas of grassland on Crocknalaragagh.

Clavulinopsis fusiformis	Golden Spindles
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe reidii	Honey Waxcap
Psilocybe semilanceata	Liberty Cap
Stropharia semiglobata	Dung Roundhead

Site: *Muckish: Summit*

Date Visited: 05/11/20 **GridRef:** C001285

H: 0 **C:** 0 **E:** 0 **G:** 0 **O** 0

A large area of montane heath on the summit of Muckish. I was searching unsuccessfully for *Hygrocybe salicis-herbaceae* but did find a number of specimens of *Lichenomphalia alpina* on bare soil on the Rhacomitrium heath. This pure yellow lichenised basidiomycete is rarely recorded in Ireland with the only record on the FRDBI being from the Galtees in Tipperary in 1969 by M.Scannell.

Cystoderma amianthinum	Earthy Powdercap
Lichenomphalia alpina	
Lichenomphalia umbellifera	Heath Navel
Mycena epipterygia var. epipterygia	Yellowleg Bonnet

C03

Sites Searched: Dunfanaghy: Holy Cross Church; Marble Hill Strand

Hygrocybe 7 ***Clavariaceae*** 1 ***Entolomaceae*** 1 ***Geoglossaceae*** 1 ***Others:*** 0

This will be a better square as Clonmass Point at Marble Strand was not accessible and looked a good possibility. Breaghy Head and Dundonnell Head could be possible sites as could the golf course and dunes at Dunfanaghy. Much of Horn Head is too acid and wet.

Grassland Target Species Recorded

Clavaria straminea

Entoloma jubatum

Geoglossum cookeanum

Hygrocybe chlorophana

Hygrocybe citrinovirens

Hygrocybe coccinea

Hygrocybe conica var. conicoides

Hygrocybe pratensis var. pratensis

Hygrocybe punicea

Hygrocybe virginea var. virginea

Site Details:

Site: *Dunfanaghy: Holy Cross Church*

Date Visited: 06/11/20 **GridRef:** C01663706

H: 5 **C:** 1 **E:** 1 **G:** 0 **O** 0

A very interesting large area of grassland around the church contained the only record of *Hygrocybe citrinovirens* on this survey (a very late record for this usually early fruiting species), large amounts of *H.punicea* and *Clavaria straminea*. These good records indicate that this could well be the best churchyard visited in this survey and certainly worth a revisit.

Clavaria straminea	Straw Club
Cystoderma amianthinum	Earthy Powdercap
Entoloma jubatum	Sepia Pinkgill
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe citrinovirens	Citrine Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe punicea	Crimson Waxcap
Rhytisma acerinum	Sycamore Tarspot
Stropharia pseudocyanea	Peppery Roundhead

Site: *Marble Hill Strand*

Date Visited: 05/11/20 **GridRef:** C066363

H: 0 **C:** 0 **E:** 0 **G:** 0 **O** 0

A thin strip of dunes behind the beach is backed by fields grazed by cattle but these are fenced off as is Clonmass Point. No fungi were found at all in the thin strip of dunes open to the public. As this visit was late in the day, there was no time to organise access onto Clonmass Point which looks very promising for waxcaps. This area is definitely worth returning to and

Rhytisma acerinum	Sycamore Tarspot

C04

Sites Searched: Glenoory: Doagh Bay; Horn Head: Coastguard Hill

Hygrocybe 10 ***Clavariaceae*** 0 ***Entolomaceae*** 2 ***Geoglossaceae*** 0 ***Others:*** 1

The square includes small corners of Horn Head and Rosguill. It is unlikely to be too much better as possible grassland is restricted on Horn Head to disturbed ground around the old coastguard and signal watchtowers. Rosguill was better with more potential grassland.

Grassland Target Species Recorded

Dermoloma cuneifolium var. cuneifolium	*Hygrocybe chlorophana*
Entoloma conferendum	*Hygrocybe coccinea*
Entoloma sericeum	*Hygrocybe insipida*

Hygrocybe pratensis var. pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe quieta
Hygrocybe reidii
Hygrocybe russocoriacea
Hygrocybe splendidissima
Hygrocybe virginea var. virginea

Site Details:

Site: *Glenoory: Doagh Bay*

Date Visited: 29/10/20 **GridRef:** C09844239

H: 10 **C:** 0 **E:** 2 **G:** 1 **O** 0

A good area of acid grassland between the road and the sea. The steeper areas or rocky knolls were the best areas for fruiting.

Clitocybe fragrans	Fragrant Funnel
Cordyceps militaris	Scarlet Caterpillarclub
Cystoderma amianthinum	Earthy Powdercap
Dermoloma cuneifolium var. cuneifolium	Crazed Cap
Entoloma conferendum	Star Pinkgill
Entoloma sericeum	Silky Pinkgill
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe reidii	Honey Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe splendidissima	Splendid Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Lepista panaeola	
Panaeolus acuminatus	Dewdrop Mottlegill
Psilocybe coprophila	
Psilocybe semilanceata	Liberty Cap
Stropharia pseudocyanea	Peppery Roundhead
Stropharia semiglobata	Dung Roundhead
Vascellum pratense	Meadow Puffball

Site: *Horn Head: Coastguard Hill*

Date Visited: 06/11/20 **GridRef:** C01364097

H: 1 **C:** 0 **E:** 0 **G:** 0 **O** 0

The northern part of Horn Head has very few potential areas for waxcaps with these mostly restricted to areas of disturbance by man, e.g. around the ruined coastguard building or signal tower. Unlikely to be of significant

Hygrocybe insipida	Spangle Waxcap
Panaeolus papilionaceus var. papilionaceus	Petticoat Mottlegill
Stropharia aeruginosa	

C11

Sites Searched: Letterkenny: Conwal Church of Ireland; Letterkenny: St Eunan's

Hygrocybe 6 ***Clavariaceae*** 1 ***Entolomaceae*** 1 ***Geoglossaceae*** 2 ***Others:*** 0

Churchyards are likely to be the best sites in this lowland square.

Grassland Target Species Recorded

Clavulinopsis corniculata

Entoloma conferendum

Geoglossum glutinosum

Trichoglossum hirsutum

Hygrocybe calyptriformis

Hygrocybe chlorophana

Hygrocybe irrigata

Hygrocybe pratensis var. pratensis

Hygrocybe psittacina var. psittacina

Hygrocybe virginea var. virginea

Site Details:

Site: *Letterkenny: Conwal Church of Ireland*

Date Visited: 24/10/20 **GridRef:** C16781152

H: 5 **C:** 1 **E:** 1 **G:** 2 **O** 0

A churchyard of interest as it hosts the flagship species, *Hygrocybe calyptriformis*, at one of its two sites in this survey. This site is likely to have more waxcaps and should be revisited.

Clavulinopsis corniculata	Meadow Coral
Entoloma conferendum	Star Pinkgill
Geoglossum glutinosum	
Hygrocybe calyptriformis	Pink Waxcap
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe irrigata	Slimy Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Trichoglossum hirsutum	Hairy Earthtongue

Site: *Letterkenny: St Eunan's Cathedral*

Date Visited: 24/10/20 **GridRef:** C16711148

H: 4 **C:** 0 **E:** 0 **G:** 0 **O** 0

A very small area of grass. Unlikely to be of significant interest.

Coprinus comatus	Shaggy Inkcap
Galerina vittiformis	Hairy Leg Bell
Hygrocybe chlorophana	Golden Waxcap

Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap

C12

Sites Searched: Kilmacrennan: Church of Ireland; Kilmacrennan: Leiter Presbyterian

Hygrocybe 17 ***Clavariaceae*** 4 ***Entolomaceae*** 3 ***Geoglossaceae*** 1 ***Others:*** 1

Lough Salt Mountain is the best area within the square without doubt with churchyards also important.

Grassland Target Species Recorded

Clavaria fumosa
Clavulinopsis corniculata
Clavulinopsis fusiformis
Clavulinopsis helvola
Dermoloma cuneifolium var. cuneifolium
Entoloma conferendum
Entoloma jubatum
Entoloma undatum
Geoglossum fallax
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe fornicata
Hygrocybe insipida
Hygrocybe irrigata
Hygrocybe laeta var. laeta
Hygrocybe miniata
Hygrocybe mucronella
Hygrocybe pratensis var. pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe punicea
Hygrocybe quieta
Hygrocybe reidii
Hygrocybe russocoriacea
Hygrocybe splendidissima
Hygrocybe virginea var. virginea

Site Details:

Site: *Kilmacrennan: Church of Ireland*

Date Visited: 24/10/20 **GridRef:** C14052049

H: 0 **C:** 0 **E:** 0 **G:** 0 **O** 0

Of limited interest for grassland fungi.

Coprinus comatus	Shaggy Inkcap
Rhytisma acerinum	Sycamore Tarspot

Site: *Kilmacrennan: Leiter Presbyterian*

Date Visited: 27/10/20 **GridRef:** C16022042

H: 6 **C:** 1 **E:** 2 **G:** 1 **O** 0

One of the better churchyards found in this survey although only 6 waxcaps were found and it is worth another visit. *Hygrocybe fornicata* and *Entoloma undatum* are the notable fungi found.

Clavulinopsis corniculata	Meadow Coral
Clitocybe dealbata	Ivory Funnel
Clitocybe fragrans	Fragrant Funnel
Coprinus comatus	Shaggy Inkcap
Cystoderma amianthinum	Earthy Powdercap
Dermoloma cuneifolium var. cuneifolium	Crazed Cap
Entoloma conferendum	Star Pinkgill
Entoloma undatum	
Galerina vittiformis	Hairy Leg Bell
Geoglossum fallax	
Hygrocybe ceracea	Butter Waxcap
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe fornicata	Earthy Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Lepista nuda	Wood Blewit
Melanoleuca polioleuca f. polioleuca	Common Cavalier

Site: *Lough Salt*

Date Visited: 29/10/20 **GridRef:** C12022574

H: 14 **C:** 3 **E:** 2 **G:** 1 **O** 0

A good site that is likely to much better and that should be explored in more depth. Areas of acid grassland are found all round the western side of the lough and add up to a significant area. The steep field at C11992570 and areas around C12112597 and C12872713 were searched but the large area around the crag at C12532676 was not and should be visited.

Clavaria fumosa	Smoky Spindles
Clavulinopsis fusiformis	Golden Spindles
Clavulinopsis helvola	Yellow Club
Clitocybe vibecina	Mealy Funnel
Cystoderma amianthinum	Earthy Powdercap
Entoloma conferendum	Star Pinkgill
Entoloma jubatum	Sepia Pinkgill
Geoglossum fallax	
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe irrigata	Slimy Waxcap
Hygrocybe miniata	Vermilion Waxcap
Hygrocybe mucronella	Bitter Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap

Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe reidii	Honey Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe splendidissima	Splendid Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Mucilago crustacea	
Mycena epipterygia var. epipterygia	Yellowleg Bonnet
Panaeolus acuminatus	Dewdrop Mottlegill
Peziza repanda	Palamino Cup
Psilocybe semilanceata	Liberty Cap
Stropharia aeruginosa	
Stropharia semiglobata	Dung Roundhead

C13

Sites Searched: Rosapenna machair

Hygrocybe 5 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 1 ***Others:*** 0

Possible sites in this square are largely restricted to the huge area of machair between Aghadachor and Downies. Agahadachor has been visited by Roland McHugh and 19 Hygrocybe have been recorded from here. I missed the turnoff and ended up not visiting this site. The machair at Rosapenna was fairly disappointing. Roland's visits to Aghadachor were all earlier in the season on 9 October 1999 and 12 October 2002 which suggests that the coastal machair sites may fruit earlier than acid grassland sites.

Grassland Target Species Recorded

Geoglossum cookeanum

Hygrocybe calciphila

Hygrocybe colemanniana

Hygrocybe conica var. conicoides

Hygrocybe insipida

Hygrocybe virginea var. fuscescens

Hygrocybe virginea var. ochraceopallida

Hygrocybe virginea var. virginea

Site Details:

Site: *Rosapenna machair*

Date Visited: 29/10/20 **GridRef:** C12163719

H: 5 **C:** 0 **E:** 0 **G:** 1 **O** 0

A huge area of machair and dunes. The golf courses were not searched and could be of interest but as typical for so many Irish dune systems, the site showed good fungal fruiting but was very limited in terms of diversity. *Hygrocybe virginea, H.conica* and *H.persistens*, earth tongues, *Lepista nuda* and *Melanoleuca* spp dominate. However the first Irish record for *Melanoleuca friesii* was found here. It is likely to be more common as it is only recently been included in keys for the species.

Geoglossum cookeanum	
Hygrocybe calciphila	
Hygrocybe colemanniana	Toasted Waxcap
Hygrocybe conica var. conicoides	Dune Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe virginea var. fuscescens	
Hygrocybe virginea var. ochraceopallida	
Hygrocybe virginea var. virginea	Snowy Waxcap
Lepista nuda	Wood Blewit
Melanoleuca friesii	
Melanoleuca polioleuca f. polioleuca	Common Cavalier

C14

Sites Searched: Melmore Head

Hygrocybe 14 ***Clavariaceae*** 2 ***Entolomaceae*** 5 ***Geoglossaceae*** 1 ***Others:*** 0

A very good square. Melmore Head was an excellent site and other possible sites in this square at the machair at Rosses Strand and Rosses Point on Rosguill and on Fanad, the dunes at Ballyheirnan Bay and Donaghmore Strand with the acid grassland of Gortnatraw Point looking quite hopeful.

Grassland Target Species Recorded

Clavulinopsis corniculata
Clavulinopsis luteoalba
Entoloma asprellum
Entoloma atrocoeruleum
Entoloma conferendum
Entoloma jubatum
Entoloma porphyrophaeum
Geoglossum cookeanum
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe colemanniana
Hygrocybe conica var. conica
Hygrocybe conica var. conicoides
Hygrocybe flavipes
Hygrocybe fornicata
Hygrocybe insipida
Hygrocybe pratensis var. pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe punicea
Hygrocybe quieta
Hygrocybe russocoriacea
Hygrocybe virginea var. fuscescens
Hygrocybe virginea var. ochraceopallida
Hygrocybe virginea var. virginea

Site Details:

Site: *Melmore Head*

Date Visited: 29/10/20 **GridRef:** C136447
H: 14 **C:** 2 **E:** 5 **G:** 1 **O** 0

A very good well drained site grazed by sheep. Fruiting was also found in the caravan site. The notable species found was *Chamaemyces fracidus* with *Lactarius lacunarum* also found on *Salix repens* in the heath.

Bolbitius vitellinus	Yellow Fieldcap
Chamaemyces fracidus	Dewdrop Dapperling
Clavulinopsis corniculata	Meadow Coral
Clavulinopsis luteoalba	Apricot Club
Clitocybe dealbata	Ivory Funnel
Cortinarius croceus	
Cystoderma amianthinum	Earthy Powdercap
Entoloma asprellum	
Entoloma atrocoeruleum	
Entoloma conferendum	Star Pinkgill
Entoloma jubatum	Sepia Pinkgill
Entoloma porphyrophaeum	Lilac Pinkgill
Geoglossum cookeanum	
Hygrocybe ceracea	Butter Waxcap
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe colemanniana	Toasted Waxcap
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe conica var. conicoides	Dune Waxcap
Hygrocybe flavipes	Yellow Foot Waxcap
Hygrocybe fornicata	Earthy Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe virginea var. fuscescens	
Hygrocybe virginea var. ochraceopallida	
Hygrocybe virginea var. virginea	Snowy Waxcap
Lactarius lacunarum	
Lepista nuda	Wood Blewit
Melanoleuca cinereifolia	
Melanoleuca polioleuca f. polioleuca	Common Cavalier
Peziza ammophila	Dune Cup
Psathyrella ammophila	Dune Brittlestem
Stropharia aeruginosa	
Stropharia semiglobata	Dung Roundhead

Vascellum pratense	Meadow Puffball

C21

Sites Searched: Castlegrove Country Hotel

Hygrocybe 3 ***Clavariaceae*** 1 ***Entolomaceae*** 1 ***Geoglossaceae*** 0 ***Others:*** 0

A lowland square with churches or estate lawns being the only possible sites. Ardrumman House and Killydonnell Abbey are other possible locations.

Grassland Target Species Recorded

Clavulinopsis luteoalba

Entoloma sericeum

Hygrocybe conica var. conica

Hygrocybe laeta var. laeta

Hygrocybe virginea var. virginea

Site Details:

Site: *Castlegrove Country Hotel*

Date Visited: 27/10/20 **GridRef:** C22601556

H: 3 **C:** 1 **E:** 1 **G:** 0 **O** 0

The deep spongy lawn had been very recently cut but featured no waxcaps. The lack of species would indicate the addition of fertilisers and this site is likely to be better for woodland fungi than grassland fungi. The notable species found was *Hebeloma radicosum*, a species normally found associated with mole latrines - see the discussion on notable finds.

Boletus badius	Bay Bolete
Clavulinopsis luteoalba	Apricot Club
Coprinus comatus	Shaggy Inkcap
Cystoderma amianthinum	Earthy Powdercap
Entoloma sericeum	Silky Pinkgill
Galerina vittiformis	Hairy Leg Bell
Hebeloma crustuliniforme	Poisonpie
Hebeloma radicosum	Rooting Poisonpie
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Laccaria laccata	Deceiver
Lacrymaria lacrymabunda	Weeping Widow
Lactarius quietus	Oakbug Milkcap
Lactarius vietus	Grey Milkcap
Rhytisma acerinum	Sycamore Tarspot
Rickenella fibula	Orange Mosscap
Rickenella swartzii	Collared Mosscap
Russula delica	Milk White Brittlegill

Russula mairei	Beechwood Sickener
Russula nigricans	Blackening Brittlegill
Suillus luteus	Slippery Jack
Tricholoma fulvum	Birch Knight

C22

Sites Searched: Glenalla: St Colmkille Church of Ireland; Rathmullan: Presbyterian

Hygrocybe 7 ***Clavariaceae*** 1 ***Entolomaceae*** 3 ***Geoglossaceae*** 1 ***Others:*** 1

The most promising area in this square is the upland area of Crockanaffrin but access to this proved difficult as the minor road was suitable for a non 4x4. Churches are the only other likely sites.

Grassland Target Species Recorded

Clavaria fumosa

Dermoloma cuneifolium var. cuneifolium

Entoloma conferendum

Entoloma jubatum

Entoloma papillatum

Geoglossum fallax

Hygrocybe chlorophana

Hygrocybe insipida

Hygrocybe laeta var. laeta

Hygrocybe miniata

Hygrocybe pratensis var. pratensis

Hygrocybe reidii

Hygrocybe virginea var. virginea

Site Details:

Site: *Glenalla: St Colmkille Church of*

Date Visited: 27/10/20 **GridRef:** C24012740

H: 7 **C:** 1 **E:** 2 **G:** 0 **O** 0

Jointly the best churchyard with (only) seven species of waxcap. A rural church this would be worth another visit.

Clavaria fumosa	Smoky Spindles
Entoloma jubatum	Sepia Pinkgill
Entoloma papillatum	Papillate Pinkgill
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe miniata	Vermilion Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe reidii	Honey Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Hypoxylon fuscum	Hazel Woodwart
Lycoperdon nigrescens	Dusky Puffball

Site: *Rathmullan: Presbyterian Church*

Date Visited: 27/10/20 **GridRef:** C29732778

H: 0 **C:** 0 **E:** 0 **G:** 0 **O** 0

No grassland fungi target species found here at all.

Galerina vittiformis	Hairy Leg Bell

Site: *Rathmullan: Roman Catholic*

Date Visited: 27/10/20 **GridRef:** C29562789

H: 1 **C:** 0 **E:** 1 **G:** 1 **O** 0

A small amount of grassland that it was felt should have had more waxcaps. The notable find was the second Irish record of *Stropharia albonitens*.

Armillaria gallica	Bulbous Honey Fungus
Collybia butyracea f. butyracea	Butter Cap
Coprinus comatus	Shaggy Inkcap
Cystoderma amianthinum	Earthy Powdercap
Dermoloma cuneifolium var. cuneifolium	Crazed Cap
Entoloma conferendum	Star Pinkgill
Geoglossum fallax	
Hygrocybe virginea var. virginea	Snowy Waxcap
Lactarius quietus	Oakbug Milkcap
Melanoleuca polioleuca f. polioleuca	Common Cavalier
Panaeolina foenisecii	Brown Mottlegill
Rhytisma acerinum	Sycamore Tarspot
Rickenella fibula	Orange Mosscap
Stropharia albonitens	

C23

Sites Searched: Ballymastocker Dunes; Fanad: Saldarha Head

Hygrocybe 9 ***Clavariaceae*** 3 ***Entolomaceae*** 1 ***Geoglossaceae*** 3 ***Others:*** 0

Small patches of acid grassland on Knockalla Mountain, Ballymastocker dunes and Portsalon grassland are the main sites in this square but they are unlikely to be significant

Grassland Target Species Recorded

Clavaria acuta

Clavulinopsis fusiformis

Clavulinopsis luteoalba

Entoloma papillatum

Geoglossum cookeanum

Geoglossum fallax

Trichoglossum hirsutum

Hygrocybe ceracea

Hygrocybe conica var. conica

Hygrocybe conica var. conicoides

Hygrocybe insipida

Hygrocybe miniata

Hygrocybe pratensis var. pratensis	*Hygrocybe virginea var. fuscescens*
Hygrocybe psittacina var. psittacina	*Hygrocybe virginea var. ochraceopallida*
Hygrocybe reidii	*Hygrocybe virginea var. virginea*
Hygrocybe russocoriacea	

Site Details:

Site: *Ballymastocker Dunes*

Date Visited: 27/10/20 **GridRef:** C252379

H: 2 **C:** 1 **E:** 0 **G:** 2 **O** 0

The small area of dunes by the carpark at the south end of the beach was searched and was not spectacular mycologically. The notable species was *Coprinopsis ammophilae* found in the foredunes. The golf course and machair behind the dunes were not searched.

Clavaria acuta	Pointed Club
Coprinopsis ammophilae	Dune Inkcap
Geoglossum cookeanum	
Hygrocybe conica var. conicoides	Dune Waxcap
Hygrocybe virginea var. fuscescens	
Hygrocybe virginea var. ochraceopallida	
Lepista nuda	Wood Blewit
Peziza ammophila	Dune Cup
Trichoglossum hirsutum	Hairy Earthtongue

Site: *Fanad: Saldarha Head*

Date Visited: 27/10/20 **GridRef:** C258374

H: 9 **C:** 2 **E:** 1 **G:** 1 **O** 0

Small strips of grassland associated with the construction of the road were the only possible sites for waxcaps. The best spots were at C25543736, C25813751 and C26953707. Unlikely to be a significant waxcap site.

Clavulinopsis fusiformis	Golden Spindles
Clavulinopsis luteoalba	Apricot Club
Cystoderma amianthinum	Earthy Powdercap
Entoloma papillatum	Papillate Pinkgill
Geoglossum fallax	
Hygrocybe ceracea	Butter Waxcap
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe miniata	Vermilion Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe reidii	Honey Waxcap

Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Lichenomphalia umbellifera	Heath Navel
Panaeolus acuminatus	Dewdrop Mottlegill
Psilocybe semilanceata	Liberty Cap
Stropharia pseudocyanea	Peppery Roundhead
Stropharia semiglobata	Dung Roundhead

C24

Sites Searched: Fanad: Pollet

Hygrocybe 14 ***Clavariaceae*** 3 ***Entolomaceae*** 5 ***Geoglossaceae*** 1 ***Others:*** 0

The small good grassland on the coastal cliffs at Pollet show how difficult it can be to find good sites as this had not been thought of as a possibility before hand. There may also be patches of grassland at Fanad Head and possibly Corry Hill.

Grassland Target Species Recorded

Clavaria acuta

Clavulinopsis helvola

Clavulinopsis luteoalba

Entoloma chalybaeum var. chalybaeum

Entoloma conferendum

Entoloma papillatum

Entoloma poliopus var. poliopus

Entoloma serrulatum

Geoglossum fallax

Hygrocybe chlorophana

Hygrocybe coccinea

Hygrocybe conica var. conica

Hygrocybe insipida

Hygrocybe irrigata

Hygrocybe laeta var. laeta

Hygrocybe pratensis var. pratensis

Hygrocybe psittacina var. psittacina

Hygrocybe punicea

Hygrocybe quieta

Hygrocybe reidii

Hygrocybe russocoriacea

Hygrocybe splendidissima

Hygrocybe virginea var. virginea

Site Details:

Site: *Fanad: Pollet*

Date Visited: 27/10/20 **GridRef:** C23894601

H: 14 **C:** 3 **E:** 5 **G:** 1 **O** 0

The steep acid grassland on the high cliffs to the north of Pollet Head were searched and proved to be very good. The site grades into heath and is not large but it could well have more species so is worth another visit.

Clavaria acuta	Pointed Club
Clavulinopsis helvola	Yellow Club
Clavulinopsis luteoalba	Apricot Club
Cystoderma amianthinum	Earthy Powdercap

Entoloma chalybaeum var. chalybaeum	Indigo Pinkgill
Entoloma conferendum	Star Pinkgill
Entoloma papillatum	Papillate Pinkgill
Entoloma poliopus var. poliopus	
Entoloma serrulatum	Blue Edge Pinkgill
Geoglossum fallax	
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe irrigata	Slimy Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe reidii	Honey Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe splendidissima	Splendid Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Mucilago crustacea	
Panaeolus papilionaceus var. papilionaceus	Petticoat Mottlegill
Stropharia pseudocyanea	Peppery Roundhead
Stropharia semiglobata	Dung Roundhead

C32

Sites Searched: Rathmullan: Fort Royal Hotel; Rathmullan: Rathmullan House

Hygrocybe 8 ***Clavariaceae*** 1 ***Entolomaceae*** 0 ***Geoglossaceae*** 1 ***Others:*** 0

There is a tiny area of land in West Donegal in this square with the estate lawns of Fort Royal and Rathmullan House being the only possibilities.

Grassland Target Species Recorded

Clavulinopsis laeticolor

Trichoglossum hirsutum

Hygrocybe ceracea

Hygrocybe chlorophana

Hygrocybe conica var. conicoides

Hygrocybe insipida

Hygrocybe miniata

Hygrocybe psittacina var. psittacina

Hygrocybe quieta

Hygrocybe virginea var. virginea

Site Details:

Site: *Rathmullan: Fort Royal Hotel*

Date Visited: 27/10/20 **GridRef:** C30232863

H: 7 **C:** 1 **E:** 0 **G:** 1 **O** 0

The lawns here were better drained than the neighbouring Rathmullan House and were subsequently much better for waxcaps with seven species recorded. The woodlands were also much richer in fungi and this was a very pleasurable site to foray in.

Clavulinopsis laeticolor	Handsome Club
Clitocybe dealbata	Ivory Funnel
Clitocybe nebularis	Clouded Funnel
Collybia butyracea f. butyracea	Butter Cap
Coprinopsis atramentaria	Common Inkcap
Helvella lacunosa	Elfin Saddle
Hygrocybe ceracea	Butter Waxcap
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe miniata	Vermilion Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Inocybe rimosa	Split Fibrecap
Lactarius glyciosmus	Coconut Milkcap
Lactarius pubescens	Bearded Milkcap
Leccinum cyaneobasileucum	
Marasmius setosus	
Melanoleuca polioleuca f. polioleuca	Common Cavalier
Parasola conopilus	Conical Brittlestem
Rhytisma acerinum	Sycamore Tarspot
Rickenella fibula	Orange Mosscap
Rickenella swartzii	Collared Mosscap
Russula exalbicans	Bleached Brittlegill
Trichoglossum hirsutum	Hairy Earthtongue
Tricholoma terreum	Grey Knight
Tricholomopsis rutilans	Plums and Custard
Trochila ilicina	Holly Speckle

Site: *Rathmullan: Rathmullan House*

Date Visited: 27/10/20 **GridRef:** C30112825

H: 1 **C:** 0 **E:** 0 **G:** 0 **O** 0

Very wet lawns surround the house with a thin strip of dunes below the lawn. The lawns are likely to be too wet for waxcaps and this site is likely to be more significant for woodland fungi than grassland fungi.

Coprinopsis atramentaria	Common Inkcap

Ganoderma australe	Southern Bracket
Gymnopilus junonius	Spectacular Rustgill
Hygrocybe conica var. conicoides	Dune Waxcap
Melanoleuca polioleuca f. polioleuca	Common Cavalier
Microsphaera alphitoides	
Peziza ammophila	Dune Cup
Rhytisma acerinum	Sycamore Tarspot
Taphrina alni	Alder Tongue
Xylaria hypoxylon	Candlesnuff Fungus

C33

Sites Searched: Not visited

Hygrocybe 0 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

A very small bit of land within West Donegal. Only Otway Golf club a possible site.

G47

Sites Searched: Malin Beg: Silver Strand

Hygrocybe 10 ***Clavariaceae*** 3 ***Entolomaceae*** 0 ***Geoglossaceae*** 1 ***Others:*** 1

A tiny area of land within this square but it contains the steep short grassland above Silver Strand. Rathlin O'Birne island could be an interesting site and is worth a visit if possible.

Grassland Target Species Recorded

Clavaria fumosa

Clavulinopsis corniculata

Clavulinopsis helvola

Dermoloma cuneifolium var. cuneifolium

Geoglossum fallax

Hygrocybe chlorophana

Hygrocybe conica var. conica

Hygrocybe insipida

Hygrocybe nitrata

Hygrocybe psittacina var. psittacina

Hygrocybe punicea

Hygrocybe quieta

Hygrocybe reidii

Hygrocybe russocoriacea

Hygrocybe virginea var. virginea

Site Details:

Site: *Malin Beg: Silver Strand*

Date Visited: 31/10/20 **GridRef:** G499799

H: 10 **C:** 3 **E:** 0 **G:** 2 **O** 1

The very steep tightly grazed slopes on the cliffs above Silver Strand. This has the feeling of a better waxcap site and is definitely worth another visit. Notable species found were Hygrocybe nitrata.

Bovista nigrescens	Brown Puffball
Clavaria fumosa	Smoky Spindles
Clavulinopsis corniculata	Meadow Coral
Clavulinopsis helvola	Yellow Club
Dermoloma cuneifolium var. cuneifolium	Crazed Cap
Geoglossum fallax	
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe nitrata	Nitrous Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe reidii	Honey Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Lepista panaeola	

G48

Sites Searched: Malin More

Hygrocybe 13 ***Clavariaceae*** 2 ***Entolomaceae*** 0 ***Geoglossaceae*** 1 ***Others:*** 0

Mostly sea but the coastal grassland at Malin More extending out to Rossan Point is very good. The northern half of Rathlin O'Birne Island could be worth exploring.

Grassland Target Species Recorded

Clavulinopsis helvola

Clavulinopsis luteoalba

Geoglossum cookeanum

Hygrocybe ceracea

Hygrocybe chlorophana

Hygrocybe coccinea

Hygrocybe conica var. conica

Hygrocybe insipida

Hygrocybe laeta var. laeta

Hygrocybe pratensis var. pratensis

Hygrocybe psittacina var. psittacina

Hygrocybe punicea

Hygrocybe quieta

Hygrocybe reidii

Hygrocybe russocoriacea

Hygrocybe virginea var. virginea

Site Details:

Site: *Malin More*

Date Visited: 31/10/20 **GridRef:** G49268297

H: 13 **C:** 2 **E:** 0 **G:** 1 **O** 0

A very interesting stretch of grassland leading out to Rossan Point that is definitely worth another visit. The earth banks were particularly interesting.

Agaricus urinascens	Macro Mushroom
Clavulinopsis helvola	Yellow Club
Clavulinopsis luteoalba	Apricot Club
Geoglossum cookeanum	
Hygrocybe ceracea	Butter Waxcap
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe reidii	Honey Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Omphalina pyxidata	
Panaeolus acuminatus	Dewdrop Mottlegill
Psilocybe coprophila	
Stropharia semiglobata	Dung Roundhead

G57

Sites Searched: Teelin Point

Hygrocybe 15 ***Clavariaceae*** 3 ***Entolomaceae*** 7 ***Geoglossaceae*** 3 ***Others:*** 1

An excellent square with a lot of possibilities. Teelin Point was visited but the whole stretch of coast between Teelin Point and Carrigan Head and on to the car park under Slieve League at Cunniltragh is definitely worth exploring.

Grassland Target Species Recorded

Clavulinopsis fusiformis

Clavulinopsis helvola

Clavulinopsis luteoalba

Dermoloma cuneifolium var. cuneifolium

Entoloma asprellum

Entoloma atrocoeruleum

Entoloma bloxamii

Entoloma conferendum

Entoloma longistriatum var. sarcitulum

Entoloma papillatum

Entoloma serrulatum

Geoglossum atropurpureum

Geoglossum fallax

Trichoglossum hirsutum

Hygrocybe chlorophana

Hygrocybe coccinea

Hygrocybe conica var. conica

Hygrocybe glutinipes var. glutinipes

Hygrocybe insipida

Hygrocybe irrigata

Hygrocybe laeta var. laeta

Hygrocybe miniata

Hygrocybe pratensis var. pratensis

Hygrocybe psittacina var. psittacina

Hygrocybe punicea

Hygrocybe quieta

Hygrocybe reidii

Hygrocybe russocoriacea

Hygrocybe virginea var. virginea

Site Details:

Site: *Teelin Point*

Date Visited: 30/10/20 **GridRef:** G59177508

H: 15 **C:** 3 **E:** 7 **G:** 1 **O** 0

A surprisingly good site in that it was small and often quite rank. However there were very steep slopes beside the cliffs and the fruiting here was excellent. This site probably extends up along the cliffs at Rinnakill with one area in particular on the higher slopes looking good. This site should be revisited and searched in depth. The notable species were *Entoloma bloxamii* and *Geoglossum atropurpureum*.

Bolbitius vitellinus	Yellow Fieldcap
Clavulinopsis fusiformis	Golden Spindles
Clavulinopsis helvola	Yellow Club
Clavulinopsis luteoalba	Apricot Club
Dermoloma cuneifolium var. cuneifolium	Crazed Cap
Entoloma asprellum	
Entoloma atrocoeruleum	
Entoloma bloxamii	Big Blue Pinkgill
Entoloma conferendum	Star Pinkgill
Entoloma longistriatum var. sarcitulum	
Entoloma papillatum	Papillate Pinkgill
Entoloma serrulatum	Blue Edge Pinkgill
Geoglossum atropurpureum	Dark-purple Earthtongue
Geoglossum fallax	
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe glutinipes var. glutinipes	Glutinous Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe irrigata	Slimy Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe miniata	Vermilion Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap

Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe reidii	Honey Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Lactarius lacunarum	
Mucilago crustacea	
Panaeolus acuminatus	Dewdrop Mottlegill
Rickenella fibula	Orange Mosscap
Stropharia semiglobata	Dung Roundhead
Trichoglossum hirsutum	Hairy Earthtongue

G58

Sites Searched: Glencolumbkille Church of Ireland; Glencolumbkille Strand;

Hygrocybe 16 ***Clavariaceae*** 1 ***Entolomaceae*** 1 ***Geoglossaceae*** 1 ***Others:*** 0

Another very good square. A number of reasonable sites added together gave a good number of species without a stand out site being found. However the low ridge of Garbhros could well be very good and is definitely worth another visit sorting out access with the local farms. The steep slopes of Craigbeefan to the east of Glen Head are worth searching as could be the hills around Port.

Grassland Target Species Recorded

Clavulinopsis helvola
Entoloma sericeum
Geoglossum fallax
Hygrocybe aurantiosplendens
Hygrocybe cantharellus
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe flavipes
Hygrocybe fornicata
Hygrocybe glutinipes var. glutinipes
Hygrocybe insipida
Hygrocybe pratensis var. pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe punicea
Hygrocybe quieta
Hygrocybe russocoriacea
Hygrocybe virginea var. virginea

Site Details:

Site: *Glencolumbkille Church of Ireland*

Date Visited: 31/10/20 **GridRef:** G53478500

H: 0 **C:** 0 **E:** 0 **G:** 0 **O** 0

Unlikely to be of significant interest for grassland fungi.

Rhytisma acerinum	Sycamore Tarspot

Site: *Glencolumbkille Strand*

Date Visited: 31/10/20 **GridRef:** G524849

H: 1 **C:** 0 **E:** 0 **G:** 0 **O** 0

Very little was found in the dunes and it is unlikely to be good for waxcaps.

Hygrocybe virginea var. virginea	Snowy Waxcap
Melanoleuca polioleuca f. polioleuca	Common Cavalier
Puccinia poarum	

Site: *Glencolumbkille: Doonalt*

Date Visited: 31/10/20 **GridRef:** G50468404

H: 2 **C:** 0 **E:** 0 **G:** 1 **O** 0

A very small patch of grassland around the car park at Doonallt. It will only support a few species.

Geoglossum fallax	
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe insipida	Spangle Waxcap

Site: *Glencolumbkille: Glen Head*

Date Visited: 31/10/20 **GridRef:** G521861

H: 9 **C:** 1 **E:** 1 **G:** 0 **O** 0

The steep slopes of Glen Head grade from heath into grassland especially on the steeper sections or areas nearer the cliffs. This was the only site on this survey for *Hygrocybe aurantiosplendens* and *Hygrocybe fornicata* was also found. Some of the grassland on the steep slopes of Craigbeetan would also be worth searching.

Clavulinopsis helvola	Yellow Club
Entoloma sericeum	Silky Pinkgill
Hygrocybe aurantiosplendens	Orange Waxcap
Hygrocybe cantharellus	Goblet Waxcap
Hygrocybe ceracea	Butter Waxcap
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe fornicata	Earthy Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Stropharia semiglobata	Dung Roundhead

Site: *Glencolumbkille: Garbhros*

Date Visited: 31/10/20 **GridRef:** G52498530

H: 11 **C:** 0 **E:** 0 **G:** 1 **O** 0

The low ridge to the south of the small road leading out to Glen Head is very promising. They are enclosed fields so access would need to be obtained but this would be worth it. The one area searched was very rich and a longer visit to this site could be very rewarding.

Geoglossum fallax	
Hygrocybe ceracea	Butter Waxcap
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe flavipes	Yellow Foot Waxcap
Hygrocybe glutinipes var. glutinipes	Glutinous Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hypholoma fasciculare	Sulphur Tuft

G59

Sites Searched: Not visited

Hygrocybe 0 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

A long hike would be needed to get to the possible heads around Glenlough or cliffs of Slievetooey.

G67

Sites Searched: Kilcar: Umuskan; Muckros

Hygrocybe 15 ***Clavariaceae*** 6 ***Entolomaceae*** 2 ***Geoglossaceae*** 2 ***Others:*** 0

The excellent fields at Muckros meant Muckros Head itself was not visited although it is much more acid and is probably not productive for waxcaps. Parts of Tawny Hill and the beach at Fintragh could be worth visiting.

Grassland Target Species Recorded

Clavaria fragilis

Clavaria fumosa

Clavaria zollingeri

Clavulinopsis fusiformis

Clavulinopsis helvola

Clavulinopsis umbrinella

Entoloma chalybaeum var. chalybaeum

Entoloma conferendum

Microglossum olivaceum

Trichoglossum hirsutum

Hygrocybe calyptriformis

Hygrocybe cantharellus

Hygrocybe chlorophana

Hygrocybe coccinea

Hygrocybe conica var. conica

Hygrocybe glutinipes var. glutinipes

Hygrocybe insipida

Hygrocybe intermedia

Hygrocybe pratensis var. pratensis

Hygrocybe psittacina var. psittacina

Hygrocybe punicea

Hygrocybe quieta

Hygrocybe reidii

Hygrocybe russocoriacea

Hygrocybe virginea var. fuscescens

Hygrocybe virginea var. ochraceopallida

Hygrocybe virginea var. virginea

Site Details:

Site: *Kilcar: Umuskan*

Date Visited: 30/10/20 **GridRef:** G62887814

H: 7 **C:** 0 **E:** 0 **G:** 0 **O** 0

These records were provided along with samples by John O'Boyle. The fields up to the scree underneath the crag at Umuskan are promising. *Hygrocybe intermedia* was found earlier in the year here indicating that more species are likely to be found.

Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe intermedia	Fibrous Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Stropharia semiglobata	Dung Roundhead

Site: *Muckros*

Date Visited: 30/10/20 **GridRef:** G62337435

H: 14 **C:** 6 **E:** 2 **G:** 2 **O** 0

These two excellent fields lie between the small road going out to Muckros Head and the beach. A series of notable species especially of Clavariaceae were found on the fields with the earth banks being some of the best localities although the fields themselves were also good. *Hygrocybe calyptriformis, Clavaria zollingeri, Clavaria fragilis, Clavulinopsis umbrinella* and *Microglossum olivaceum* are all special finds with this being the only site for *Clavaria zollingeri* and *Microglossum olivaceum* in this survey. Indeed this is the first time I personally have found *Clavaria zollingeri* in Ireland.

Clavaria fragilis	White Spindles
Clavaria fumosa	Smoky Spindles
Clavaria zollingeri	Violet Coral
Clavulinopsis fusiformis	Golden Spindles
Clavulinopsis helvola	Yellow Club
Clavulinopsis umbrinella	Beige Coral
Cordyceps militaris	Scarlet Caterpillarclub
Entoloma chalybaeum var. chalybaeum	Indigo Pinkgill
Entoloma conferendum	Star Pinkgill
Hygrocybe calyptriformis	Pink Waxcap
Hygrocybe cantharellus	Goblet Waxcap

Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe glutinipes var. glutinipes	Glutinous Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe reidii	Honey Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe virginea var. fuscescens	
Hygrocybe virginea var. ochraceopallida	
Hygrocybe virginea var. virginea	Snowy Waxcap
Lichenomphalia umbellifera	Heath Navel
Microglossum olivaceum	Olive Earthtongue
Mucilago crustacea	
Omphalina pyxidata	
Stropharia pseudocyanea	Peppery Roundhead
Trichoglossum hirsutum	Hairy Earthtongue

G68

Sites Searched: Owenwee Valley

Hygrocybe 9 ***Clavariaceae*** 1 ***Entolomaceae*** 1 ***Geoglossaceae*** 1 ***Others:*** 0

A very wet square with the steep slopes of the northern hills of most interest. The slopes west of the river on the Owenwee valley were searched but the steep slopes under Maum on the other side of the valley could be interesting. However the best possible site are the very steep fields above the coastal road at G69718983.

Grassland Target Species Recorded

Clavulinopsis fusiformis

Entoloma papillatum

Geoglossum fallax

Hygrocybe chlorophana

Hygrocybe coccinea

Hygrocybe conica var. conica

Hygrocybe laeta var. laeta

Hygrocybe pratensis var. pratensis

Hygrocybe psittacina var. psittacina

Hygrocybe punicea

Hygrocybe reidii

Hygrocybe virginea var. virginea

Site Details:

Site: *Owenwee Valley*

Date Visited: 31/10/20 **GridRef:** G64318950

H: 9 **C:** 1 **E:** 1 **G:** 1 **O** 0

The small patches of acid grassland around the ruined houses at G64318950 were searched and they supported a typical acid grassland community. Some of the steep slopes under the crags of Maum say at G64708938 would also be worth searching.

Clavulinopsis fusiformis	Golden Spindles
Cortinarius croceus	
Entoloma papillatum	Papillate Pinkgill
Geoglossum fallax	
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe conica var. conica	Blackening Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe reidii	Honey Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Leptosphaeria acuta	Nettle Rash
Panaeolus acuminatus	Dewdrop Mottlegill

G69

Sites Searched: Maghera Strand; Sheskinmore Dunes

Hygrocybe 16 ***Clavariaceae*** 1 ***Entolomaceae*** 3 ***Geoglossaceae*** 3 ***Others:*** 0

Potentially a very good square even better than already found. Maghera Strand and Sheskinmore Dunes are the best sites without a doubt with Sheskinmore in particular needing a much longer visit. The steep coastal slopes west of Maghera Strand are worth a longer visit with the steep slopes of Slievetooey another possibility as could be Dawros Head.

Grassland Target Species Recorded

Clavaria straminea

Entoloma conferendum

Entoloma poliopus var. poliopus

Entoloma sericeoides

Geoglossum cookeanum

Geoglossum fallax

Trichoglossum hirsutum

Hygrocybe chlorophana

Hygrocybe coccinea

Hygrocybe colemanniana

Hygrocybe conica var. conicoides

Hygrocybe flavipes

Hygrocybe fornicata

Hygrocybe insipida

Hygrocybe laeta var. laeta

Hygrocybe mucronella

Hygrocybe nitrata

Hygrocybe persistens var. persistens

Hygrocybe psittacina var. psittacina

Hygrocybe punicea

Hygrocybe quieta

Hygrocybe russocoriacea

Hygrocybe virginea var. fuscescens

Hygrocybe virginea var. ochraceopallida

Hygrocybe virginea var. virginea

Site Details:

Site: *Maghera Strand*

Date Visited: 31/10/20 **GridRef:** G658909

H: 11 **C:** 1 **E:** 2 **G:** 3 **O** 0

A very interesting site. The sand dunes of the strand grade into acid grassland on the steep slopes above the strand and Maghera cave. This site had the "feeling" of a much better site and should definitely be revisited. Of particular note was the amount of Salix repens often high on the cliffs and the amount of ectomycorrhizal fungi associated with the Salix. *Cortinarius anomalus* and *Hebeloma vaccinium* were recorded along with three species of *Inocybe* but with the latter, unless they are identified while fresh, it is very difficult to do so later (pers. Comm. A.Outen). Other notable species recorded include *Hygrocybe nitrata* and *H.colemanniana*.

Bovista plumbea	Grey Puffball
Clavaria straminea	Straw Club
Clavulina cinerea	Grey Coral
Cortinarius anomalus	Variable Webcap
Entoloma conferendum	Star Pinkgill
Entoloma poliopus var. poliopus	
Geoglossum cookeanum	
Geoglossum fallax	
Lycoperdon utriformis	Mosaic Puffball
Hebeloma vaccinium	
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe colemanniana	Toasted Waxcap
Hygrocybe conica var. conicoides	Dune Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe mucronella	Bitter Waxcap
Hygrocybe nitrata	Nitrous Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Lepista nuda	Wood Blewit
Melanoleuca polioleuca f. polioleuca	Common Cavalier
Rhytisma salicinum	
Trichoglossum hirsutum	Hairy Earthtongue

Site: *Sheskinmore Dunes*

Date Visited: 03/11/20 **GridRef:** G685955

H: 13 **C:** 0 **E:** 3 **G:** 2 **O** 0

An enormous coastal dune system that definitely needs more visits. Windblown sand and dunes cover a rolling terrain with rock outcrops leading to an intricate mix of acid and dune grassland which creates the interest. This site was only partially visited with the areas around Trawmore Strand and the point at Carrickalahagh visited. The latter point was quite acid and the best area for waxcaps which were often fruiting amongst the heather at the heath/grassland interface.

Agaricus silvaticus	Blushing Wood Mushroom
Bjerkandera adusta	Smoky Bracket
Collybia dryophila	Russet Toughshank
Entoloma conferendum	Star Pinkgill
Entoloma poliopus var. poliopus	
Entoloma sericeoides	
Geoglossum cookeanum	
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe colemanniana	Toasted Waxcap
Hygrocybe conica var. conicoides	Dune Waxcap
Hygrocybe flavipes	Yellow Foot Waxcap
Hygrocybe fornicata	Earthy Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe persistens var. persistens	Persistent Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe virginea var. fuscescens	
Hygrocybe virginea var. ochraceopallida	
Hygrocybe virginea var. virginea	Snowy Waxcap
Lepiota sp.	
Lepista panaeola	
Mycena epipterygia var. epipterygia	Yellowleg Bonnet
Mycena pura var. pura	Lilac Bonnet
Panaeolus acuminatus	Dewdrop Mottlegill
Panaeolus papilionaceus var. papilionaceus	Petticoat Mottlegill
Psathyrella ammophila	Dune Brittlestem
Stropharia pseudocyanea	Peppery Roundhead
Stropharia semiglobata	Dung Roundhead

Trichoglossum hirsutum	Hairy Earthtongue

G76

Sites Searched: St John's Point

Hygrocybe 9 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

The tip of St John's Point is the only land in this square.

Grassland Target Species Recorded

Hygrocybe coccinea

Hygrocybe insipida

Hygrocybe pratensis var. pratensis

Hygrocybe psittacina var. psittacina

Hygrocybe punicea

Hygrocybe quieta

Hygrocybe reidii

Hygrocybe russocoriacea

Hygrocybe virginea var. virginea

Site Details:

Site: *St John's Point*

Date Visited: 30/10/20 **GridRef:** G710695

H: 9 **C:** 0 **E:** 0 **G:** 0 **O** 0

A large area of coastal grassland, limestone pavement grading into heath and bog. Daylight was fading fast on this site visit and the site was only partially searched. Likely to be a much better site.

Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe reidii	Honey Waxcap
Hygrocybe russocoriacea	Cedarwood Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Stropharia pseudocyanea	Peppery Roundhead
Stropharia semiglobata	Dung Roundhead

G77

Sites Searched: Not visited

Hygrocybe 0 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

Churchyards and Bruckless House are the most likely sites in this square.

G78

Sites Searched: Glengesh: Common Mountain

Hygrocybe 11 ***Clavariaceae*** 0 ***Entolomaceae*** 1 ***Geoglossaceae*** 0 ***Others:*** 0

The north western slopes of Common Mountain need further exploration as could the north eastern facing corrie of the same mountain.

Grassland Target Species Recorded

Entoloma conferendum

Hygrocybe ceracea

Hygrocybe chlorophana

Hygrocybe coccinea

Hygrocybe insipida

Hygrocybe laeta var. laeta

Hygrocybe pratensis var. pratensis

Hygrocybe psittacina var. psittacina

Hygrocybe punicea

Hygrocybe quieta

Hygrocybe splendidissima

Hygrocybe virginea var. virginea

Site Details:

Site: *Glengesh: Common Mountain*

Date Visited: 30/10/20 **GridRef:** G70268724

H: 11 **C:** 0 **E:** 1 **G:** 0 **O** 0

Glengesh is a valley with a lot of potential for waxcap locations. The steep slopes of Common Mountain on the eastern side of the valley looked the most promising and were accessed from the farm at G69938707. The torrential rain meant that surveying was very difficult and the areas of most potential were not reached. The slopes were very wet and the best areas were restricted to earth banks or the steep river sides descending the slopes. This site should be revisited especially the slopes at G70648747 or G69718727

Cordyceps militaris	Scarlet Caterpillarclub
Entoloma conferendum	Star Pinkgill
Hygrocybe ceracea	Butter Waxcap
Hygrocybe chlorophana	Golden Waxcap
Hygrocybe coccinea	Scarlet Waxcap
Hygrocybe insipida	Spangle Waxcap
Hygrocybe laeta var. laeta	Heath Waxcap
Hygrocybe pratensis var. pratensis	Meadow Waxcap
Hygrocybe psittacina var. psittacina	Parrot Waxcap
Hygrocybe punicea	Crimson Waxcap
Hygrocybe quieta	Oily Waxcap
Hygrocybe splendidissima	Splendid Waxcap
Hygrocybe virginea var. virginea	Snowy Waxcap
Stropharia semiglobata	Dung Roundhead

G79

Sites Searched: Portnoo: Narin Dunes

Hygrocybe 5 ***Clavariaceae*** 2 ***Entolomaceae*** 0 ***Geoglossaceae*** 1 ***Others:*** 0

Portnoo dunes and Roshin Point are the only likely sites in this square.

Grassland Target Species Recorded

Clavaria acuta

Clavaria straminea

Geoglossum cookeanum

Hygrocybe calciphila

Hygrocybe conica var. conicoides

Hygrocybe mucronella

Hygrocybe persistens var. persistens

Hygrocybe virginea var. fuscescens

Hygrocybe virginea var. virginea

Site Details:

Site: *Portnoo: Narin Dunes*

Date Visited: 24/10/20 **GridRef:** G720995

H: 5 **C:** 2 **E:** 0 **G:** 1 **O** 0

This site was also visited by the Northern Ireland Fungus group on October 24th. The best area of interest was on the caravan site. Also of note was the amount of juniper with berries.

Bolbitius vitellinus	Yellow Fieldcap
Clavaria acuta	Pointed Club
Clavaria straminea	Straw Club
Dacrymyces stillatus	Common Jellyspot
Geoglossum cookeanum	
Hygrocybe calciphila	
Hygrocybe conica var. conicoides	Dune Waxcap
Hygrocybe mucronella	Bitter Waxcap
Hygrocybe persistens var. persistens	Persistent Waxcap
Hygrocybe virginea var. fuscescens	
Hygrocybe virginea var. virginea	Snowy Waxcap
Lepista nuda	Wood Blewit
Melanoleuca polioleuca f. polioleuca	Common Cavalier
Omphalina subhepatica	
Stropharia coronilla	Garland Roundhead
Typhula micans	

G87

Sites Searched: Not visited

Hygrocybe 0 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

Probably not a good square with churchyards or the east side of Inver Bay or small spit at Beefpark being the possible sites.

G88

Sites Searched: Not visited

Hygrocybe 0 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

The Blue Stacks were one area not visited and whether they would be too wet is the question. Churches at Letterbarra, Frosses or the south east slopes of Carnaween could be worth searching.

G89

Sites Searched: Glenties Church of Ireland; Glenties RC Church

Hygrocybe 1 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 1 ***Others:*** 0

An unlikely square with churches or the southern slopes of Meenamalragh being the only likely locations.

Grassland Target Species Recorded

Geoglossum fallax

Hygrocybe virginea var. virginea

Site Details:

Site: *Glenties Church of Ireland*

Date Visited: 03/11/20 **GridRef:** G81779429

H: 0 **C:** 0 **E:** 0 **G:** 0 **O** 0

The churchyard was locked but the area leading up to the church was searched. It was too wet for any grassland fungi.

Clitocybe fragrans	Fragrant Funnel
Tricholomopsis rutilans	Plums and Custard

Site: *Glenties RC Church*

Date Visited: 03/11/20 **GridRef:** G81949409

H: 1 **C:** 0 **E:** 0 **G:** 1 **O** 0

A small area of grassland that is unlikely to be of significant interest.

Armillaria gallica	Bulbous Honey Fungus
Cystoderma amianthinum	Earthy Powdercap
Geoglossum fallax	
Hygrocybe virginea var. virginea	Snowy Waxcap
Laccaria laccata	Deceiver
Melampsoridium betulinum	Birch Rust
Xylaria carpophila	Beechmast Candlesnuff

G97

Sites Searched: Not visited

Hygrocybe 0 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

A small area of land within West Donegal with the churchyards of Donegal town being the only possible sites.

G98

Sites Searched: Not visited

Hygrocybe 0 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

This part of the Blue Stacks could either be very good or far too wet. Areas to look would be Lougheask demesne, Banagher Mountain, the southern slopes of Binnasruel and the slopes of Mullaghanadreesruhan up to Lough Belshade.

G99

Sites Searched: Not visited

Hygrocybe 0 ***Clavariaceae*** 0 ***Entolomaceae*** 0 ***Geoglossaceae*** 0 ***Others:*** 0

Very unlikely with the areas to look being Croaghnahalla or Croaghnanard Lough but they would be a bit of a hike.

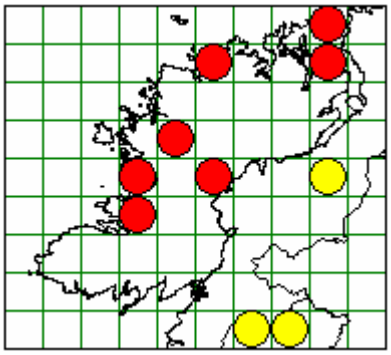
Appendix 2 - Species Atlas

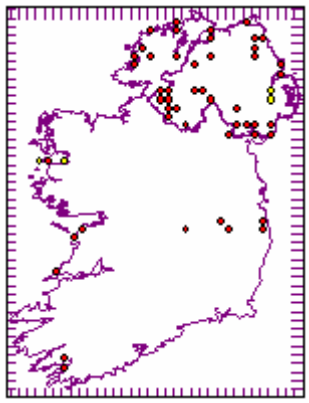
The all Ireland species maps are reasonably inclusive but other records may exist. Red dots are from 2009, yellow from 1970 – 2008 and green pre-1970

Grassland Target Species

Clavaria acuta Fr. Pointed Club

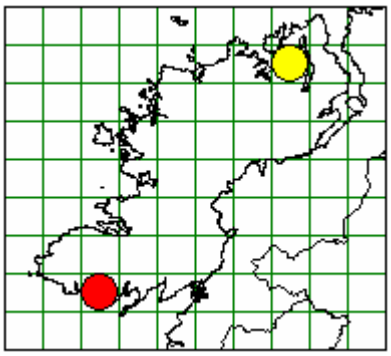
A white Fairy Club growing singly with larger spores than *C.fragilis*

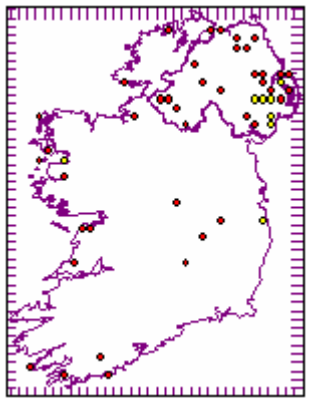




Clavaria fragilis Holmsk. White Spindles

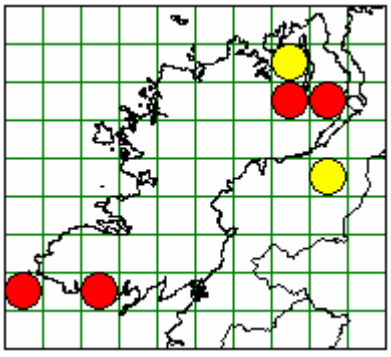
A white Fairy Club often growing in clumps – always a good record

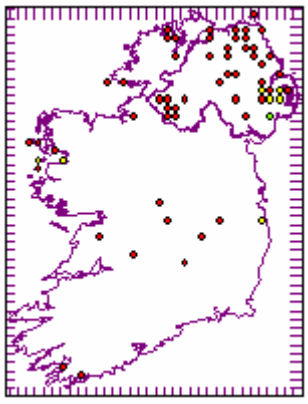




Clavaria fumosa Fr. Smoky Spindles

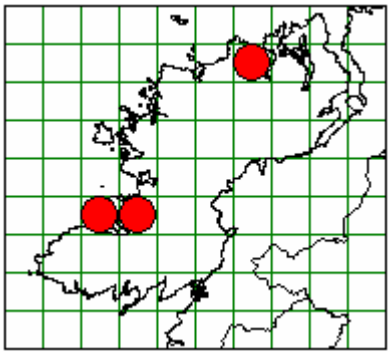
A smoky grey Fairy Club growing in dense clumps – always a good record

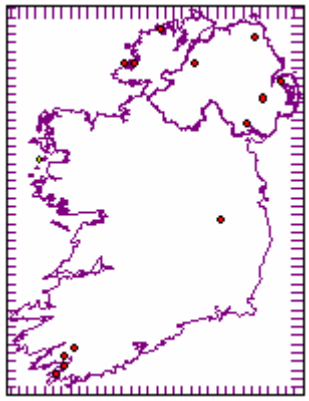




Clavaria straminea Cotton Straw Club

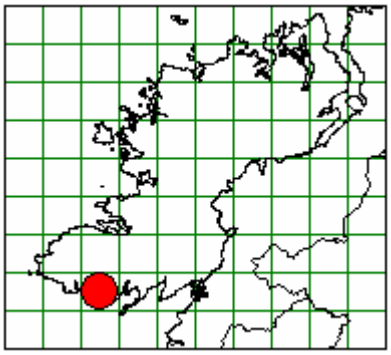
A notable Fairy Club with a distinctive yellow base and straw coloured above. Sometimes twisted like a corkscrew.

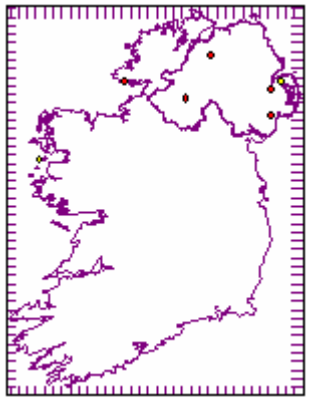




Clavaria zollingeri Lév. Violet Coral

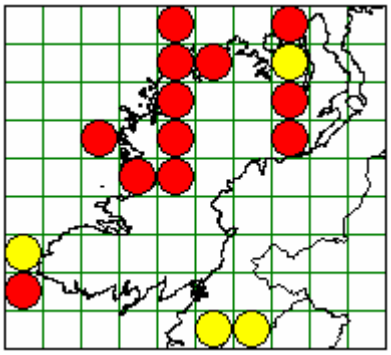
An extremely striking purple densely branching Fairy Club - very few records in Ireland

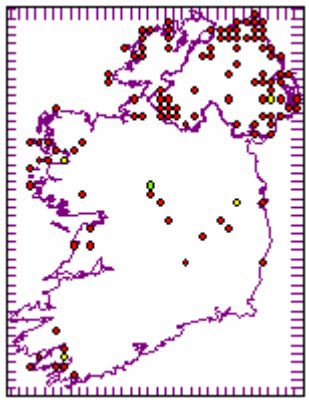




Clavulinopsis corniculata (Fr.) Corner Meadow Coral

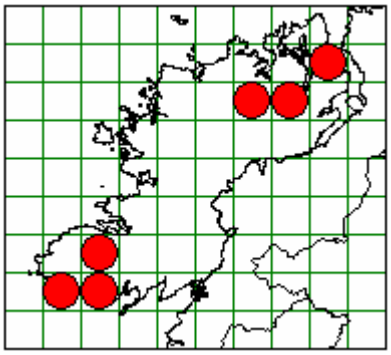
A common coralloid Fairy Club

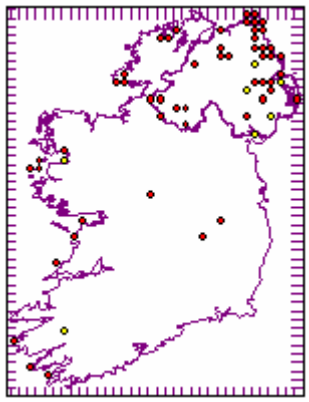




Clavulinopsis fusiformis (Sowerby) Corner Golden Spindles

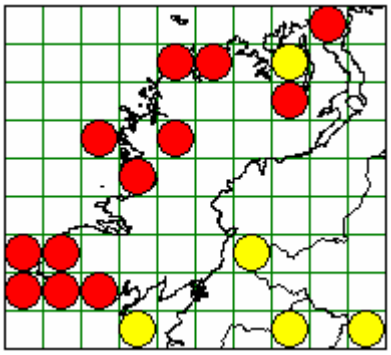
A yellow clumped Fairy Club that is most common in acid grassland

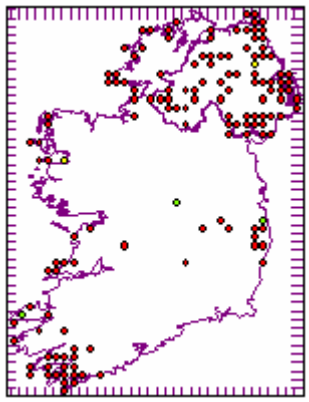




Clavulinopsis helvola (Pers.) Corner Yellow Club

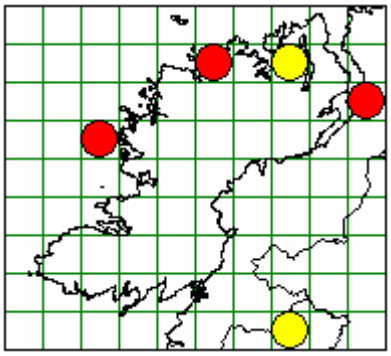
The most common Fairy Club - yellow, grows singly with warty spores

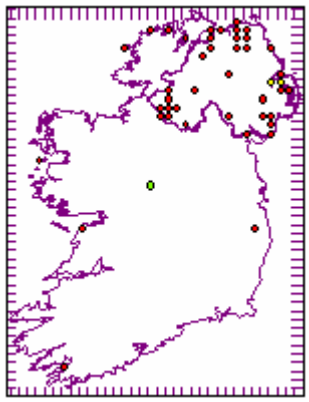




Clavulinopsis laeticolor (Berk. & M.A. Curtis) R.H. Petersen Handsome Club

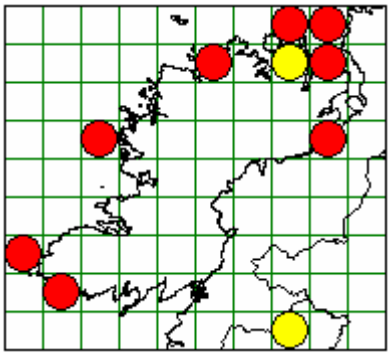
A Fairy Club that needs to be microscopically checked to distinguish from *C.luteoalba* as it has a long apiculus on the spores

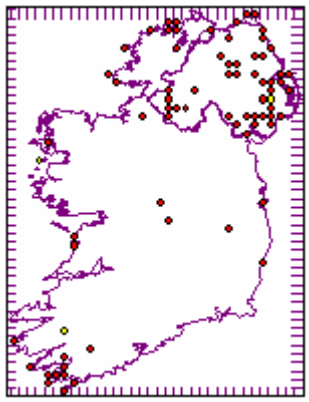




Clavulinopsis luteoalba (Rea) Corner Apricot Club

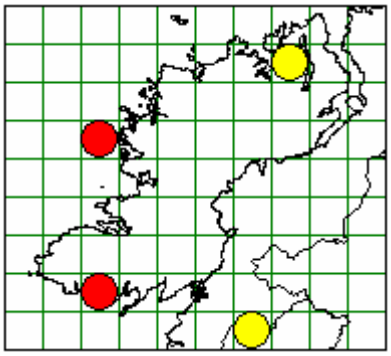
A common apricot Fairy Club

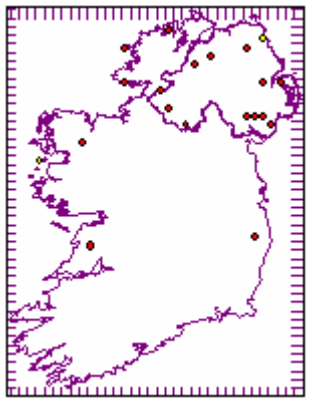




Clavulinopsis umbrinella (Sacc.) Corner Beige Coral

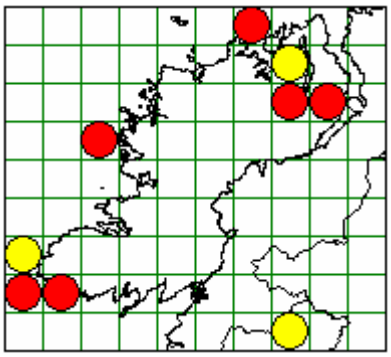
A rarer Fairy Club that appears to be a good indicator of high quality grasslands

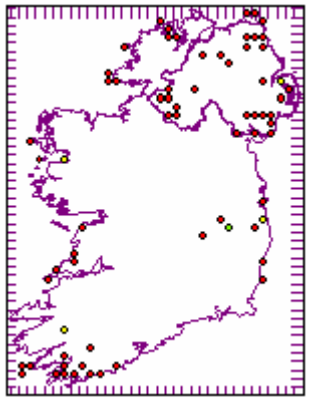




Dermoloma cuneifolium var. cuneifolium (Fr.) Bon Crazed Cap

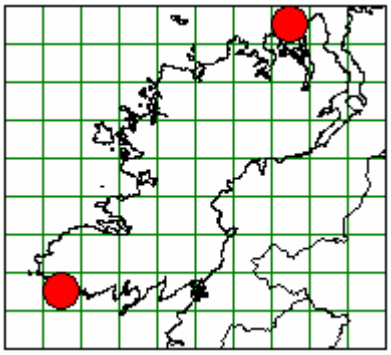
A species found in unfertilised grasslands with a strong smell of flour and a cracking cap

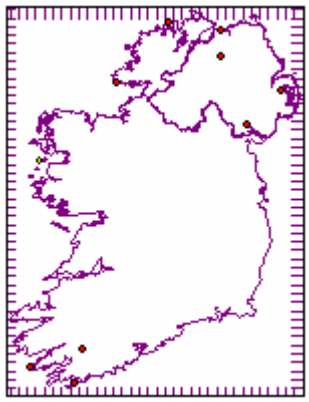




Entoloma asprellum (Fr.) Fayod

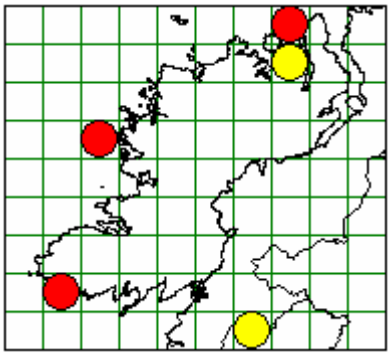
A Leptonia with a brown cap and blue stipe. Similar to *E.poliopus* but with a fertile gill edge.

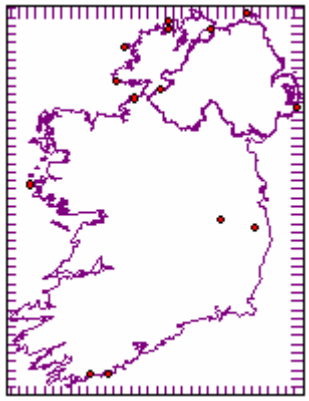




Entoloma atrocoeruleum Noordel.

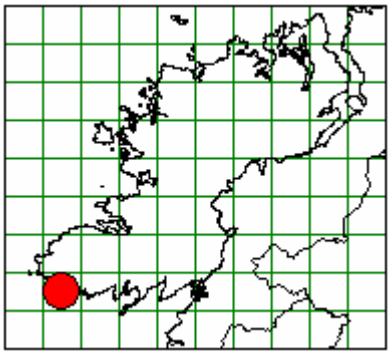
A blue black Leptonia with a blue fibrillose stipe. Similar to *E.corvinum* but with a fertile gill edge.

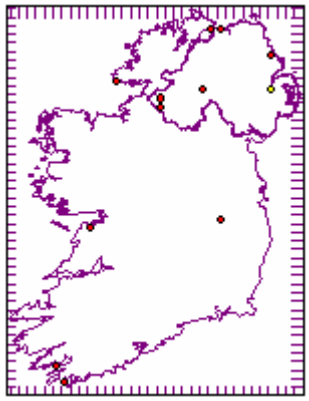




Entoloma bloxamii (Berk.) Sacc. Big Blue Pinkgill

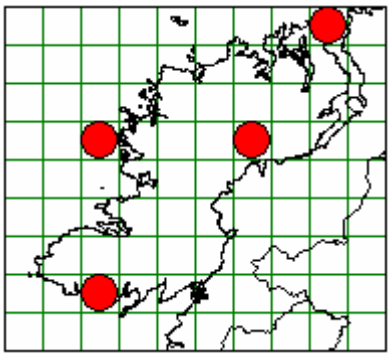
A large fleshy blue Entoloma. A Northern Ireland Priority species

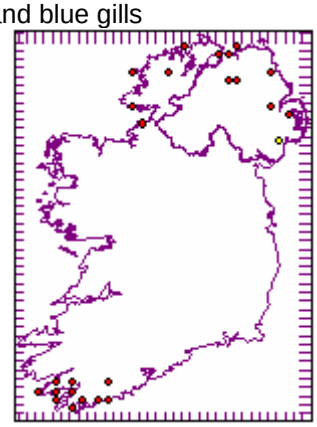




Entoloma chalybaeum var. chalybaeum (Pers.) Noordel. Indigo Pinkgill

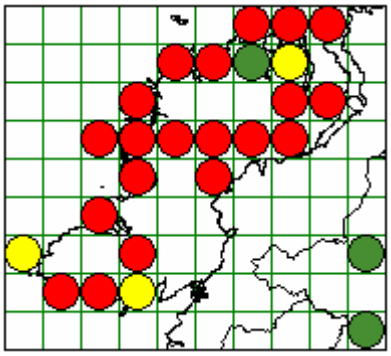
A striking blue black Entoloma with a polished stipe and blue gills

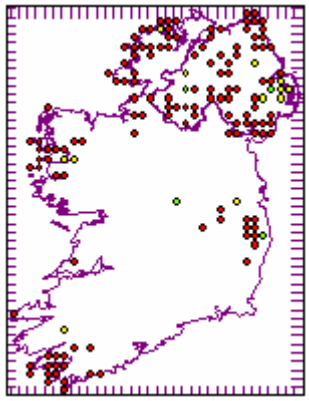




Entoloma conferendum (Britzelm.) Noordel. Star Pinkgill

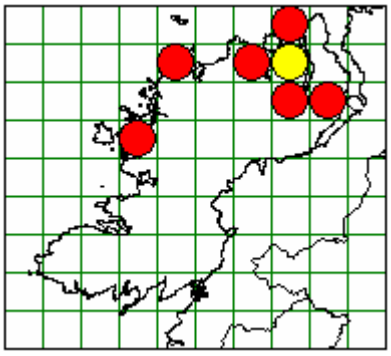
A common Entoloma in acid grassland with very distinctive spores

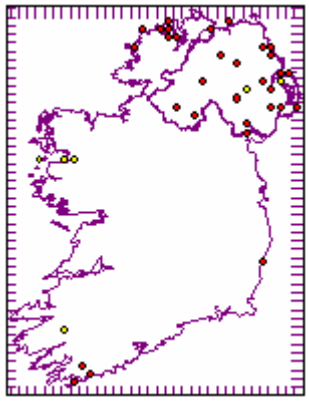




Entoloma jubatum Fr. Sepia Pinkgill

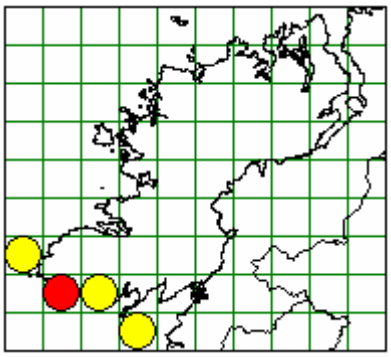
Similar to the larger *E.porpyrophaeum* but noted by non-reddish colours, dark striate stem and different Cheilocystidia

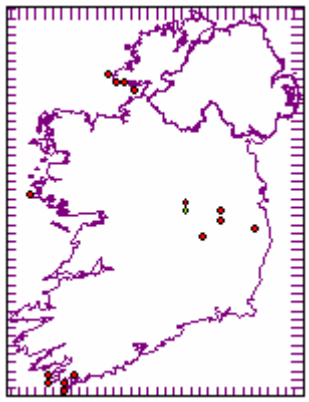




Entoloma longistriatum var. sarcitulum (Kühner & Romagn. ex P.D. Orton) Noordel.

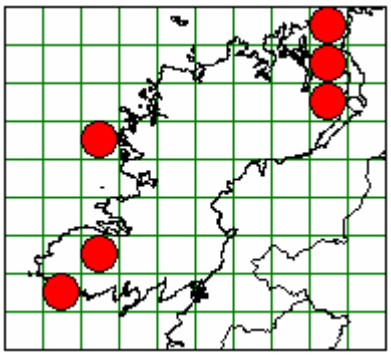
A brown Leptonia often with a brown gill edge and brown stipe

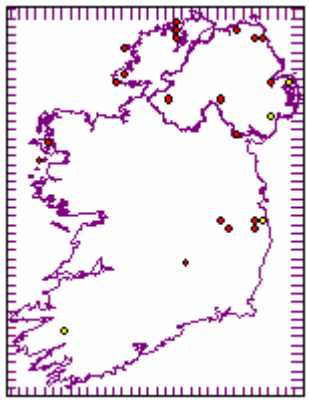




Entoloma papillatum (Bres.) Dennis Papillate Pinkgill

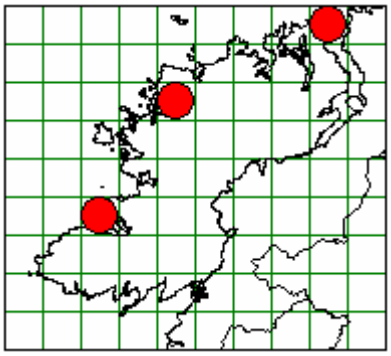
One of the difficult Nolanea group

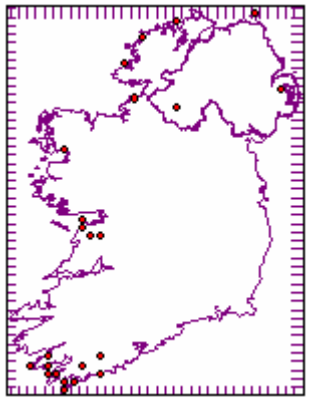




Entoloma poliopus var. poliopus (Romagn.) Noordel.

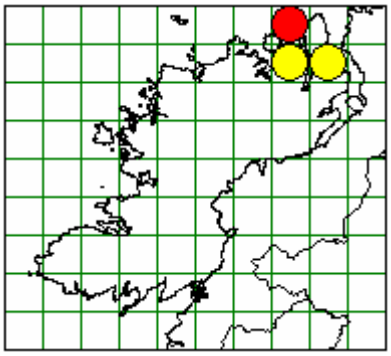
A relatively common Leptonia in unfertilised grasslands. With a brown cap, blue stipe and sterile gill

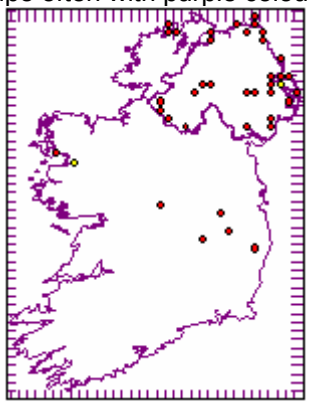




Entoloma porphyrophaeum (Fr.) P. Karst. Lilac Pinkgill

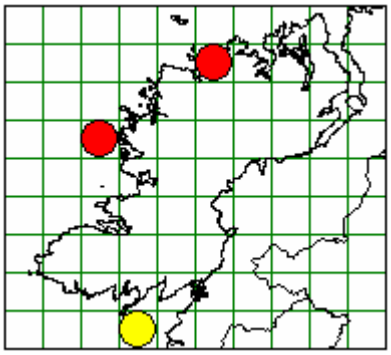
A large bulky Entoloma with a fibrillose cap and the stipe often with purple colours

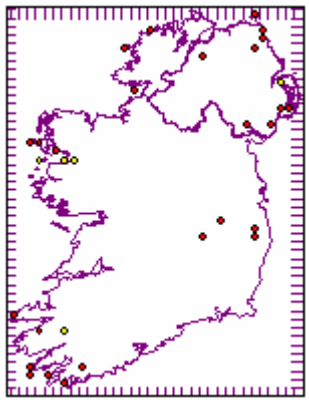




Entoloma prunuloides (Fr.) Quél. Mealy Pinkgill

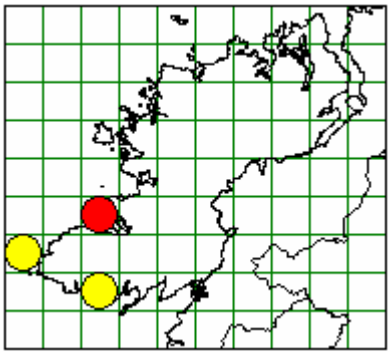
A chunky Entoloma often quite common in grasslands. Can be quite variable but tastes and smells of flour.

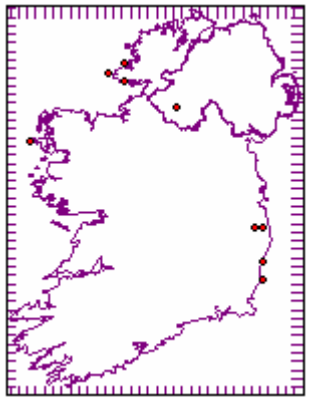




Entoloma sericeoides (J.E. Lange) Noordel.

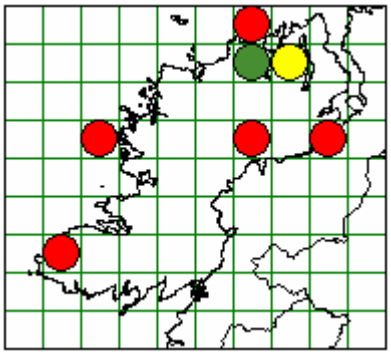
A large pale funnel shaped Entoloma with decurrent gills

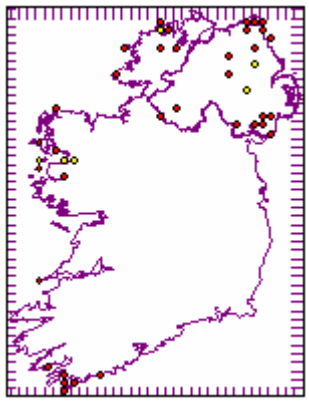




Entoloma sericeum (Bull.) Fr. Silky Pinkgill

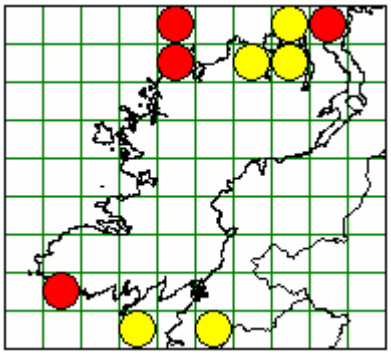
A common brown Nolanea

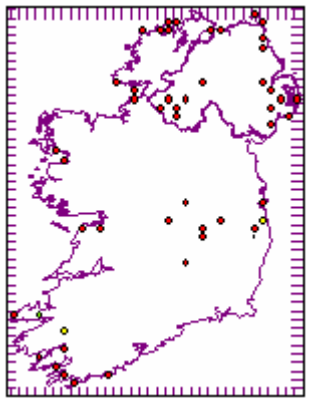




Entoloma serrulatum (Fr.) Hesler Blue Edge Pinkgill

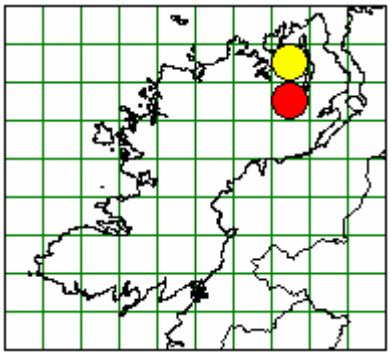
A blue black Leptonia with a black gill margin. Not uncommon.

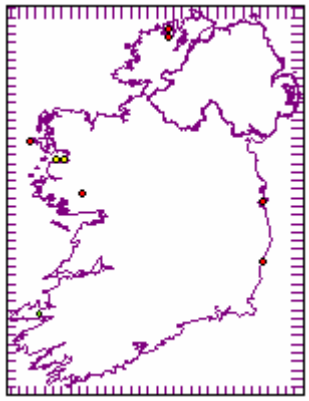




Entoloma undatum (Gillet) M.M. Moser

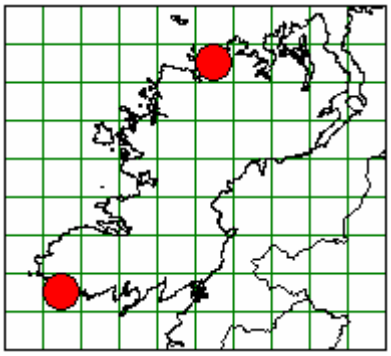
A small funnel shaped Entoloma with deeply decurrent gills

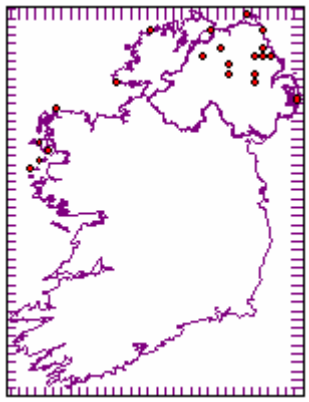




Geoglossum atropurpureum (Batsch) Pers. Dark-purple Earthtongue

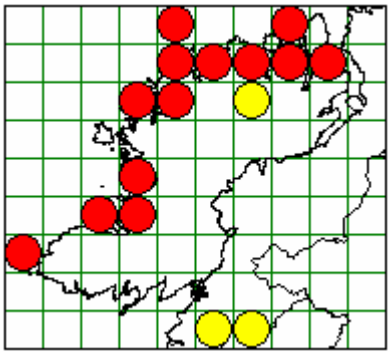
A notable species hardly distinguishable in the field. A Northern Ireland Priority species

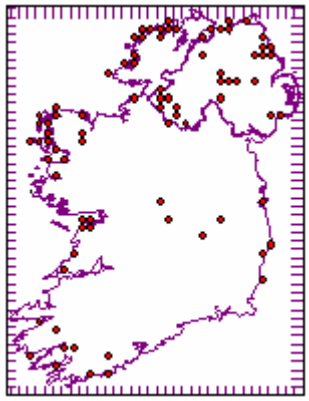




Geoglossum cookeanum Nannf.

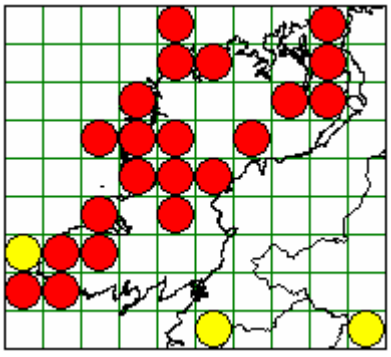
Can be the largest species of earth tongue growing to several centimetres tall

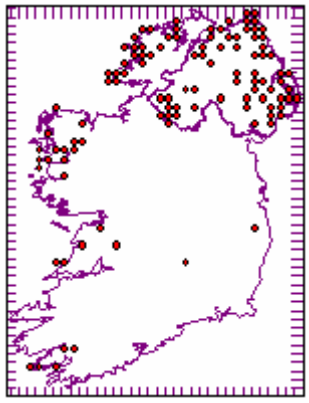




Geoglossum fallax E.J. Durand

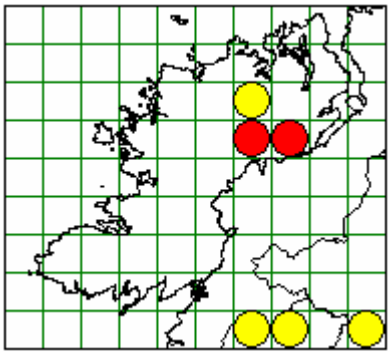
The most common earth tongue on acid grassland

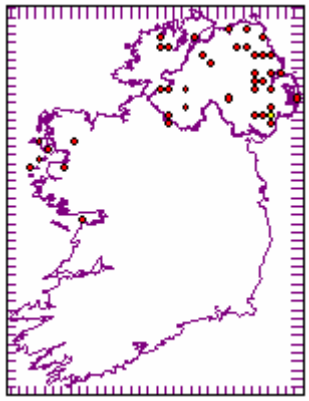




Geoglossum glutinosum Pers.

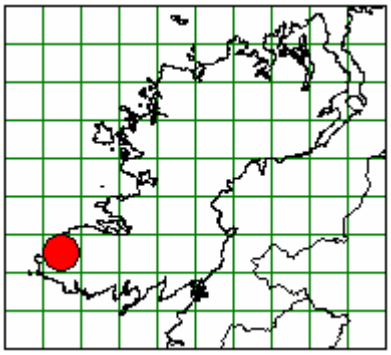
An earth tongue that is very viscid

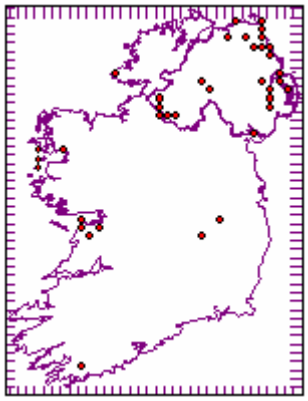




Hygrocybe aurantiosplendens R. Haller Aar. Orange Waxcap

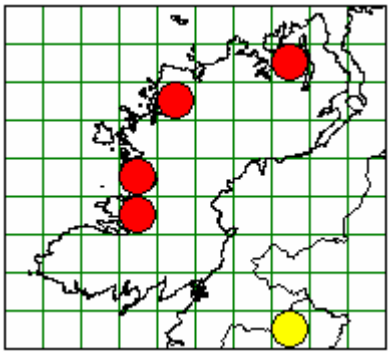
A rarer waxcap that is often over-recorded. Gill trama should always be checked to see if they are not very long and parallel which would mean it is the common orange form of *H.chlorophana*

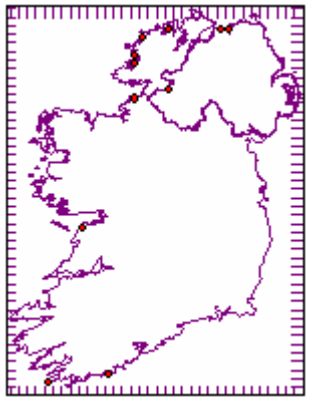




Hygrocybe calciphila Arnolds

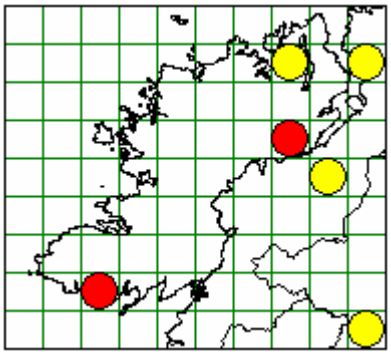
A rare waxcap usually found in dune systems. Looks like *H.miniata* but has fatter spores. Not many Irish records

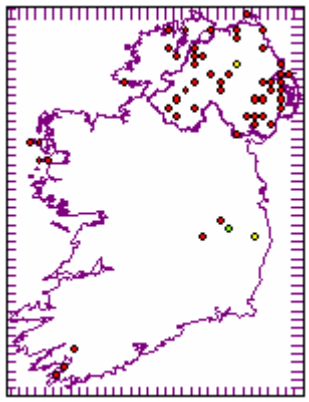




Hygrocybe calyptriformis (Berk. & Broome) Fayod Pink Waxcap

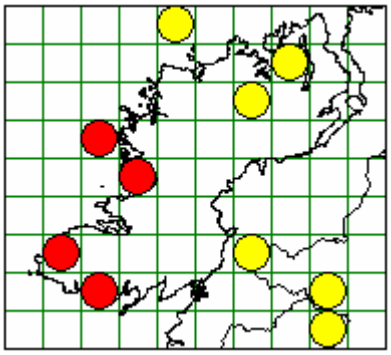
The flagship species of waxcap. Unmistakable with its pink, conical cap that often splits and curls up.

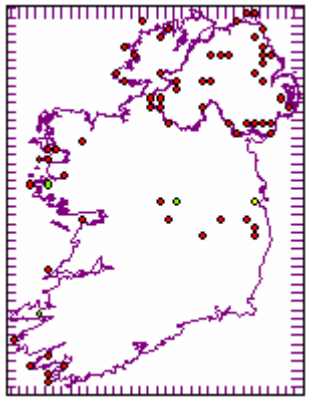




Hygrocybe cantharellus (Schwein.) Murrill Goblet Waxcap

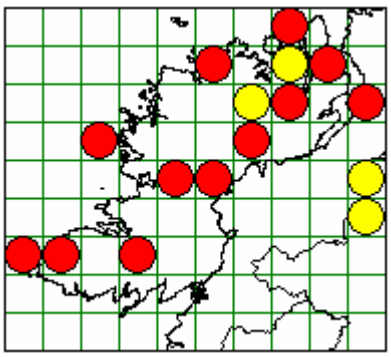
A waxcap usually found in acid grassland. Noted by its dry, red scurfy cap and decurrent

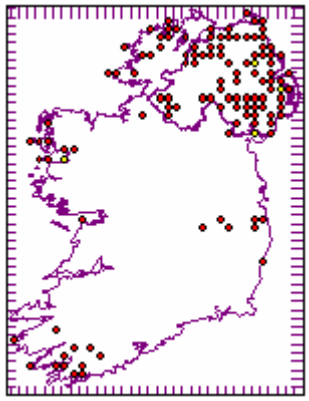




Hygrocybe ceracea (Wulfen) P. Kumm. Butter Waxcap

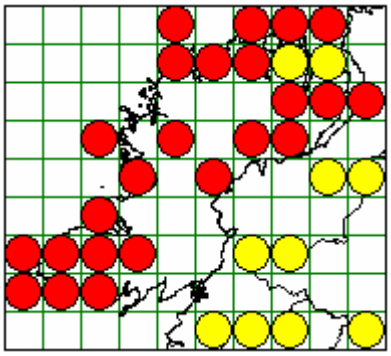
A yellow waxcap - not uncommon

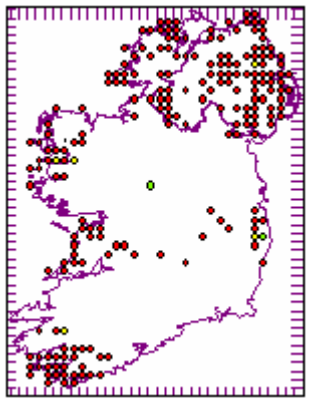




Hygrocybe chlorophana (Fr.) Wünsche Golden Waxcap

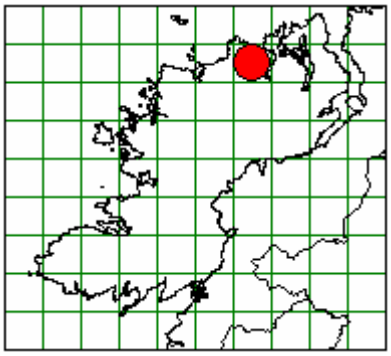
One of the most common waxcaps

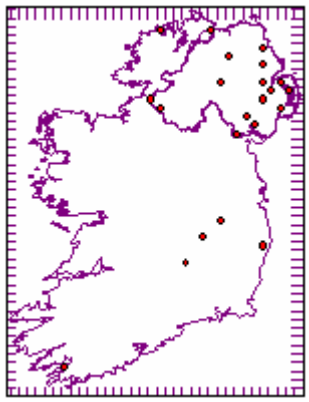




Hygrocybe citrinovirens (Lange) Jul. Schäff. Citrine Waxcap

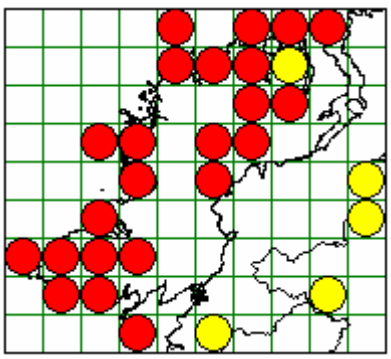
Often an early species. Large and lemon yellow

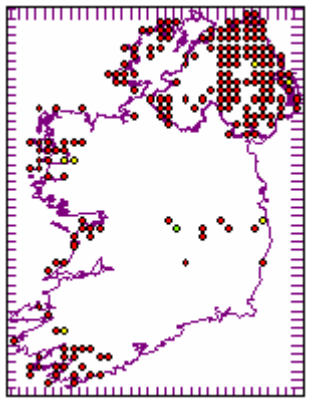




Hygrocybe coccinea (Schaeff.) P. Kumm. Scarlet Waxcap

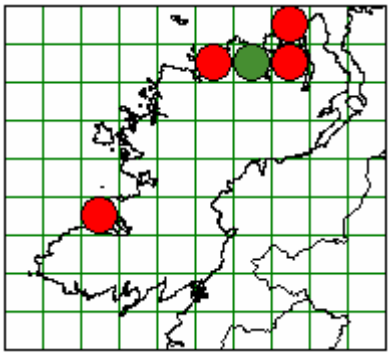
One of the most common red waxcaps

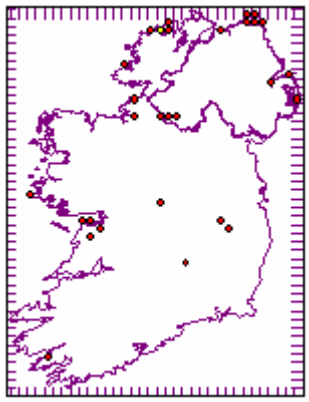




Hygrocybe colemanniana (A. Bloxam) P.D. Orton & Watling Toasted Waxcap

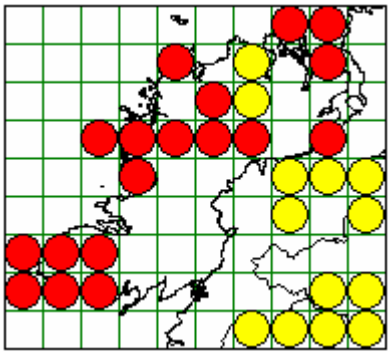
Usually restricted to calcareous grassland

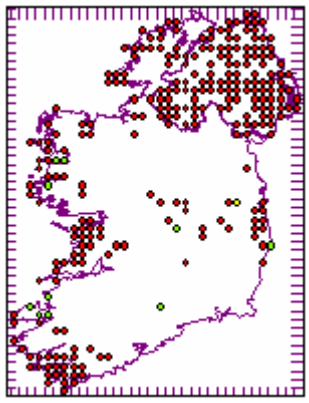




Hygrocybe conica var. conica (Schaeff.) P. Kumm. Blackening Waxcap

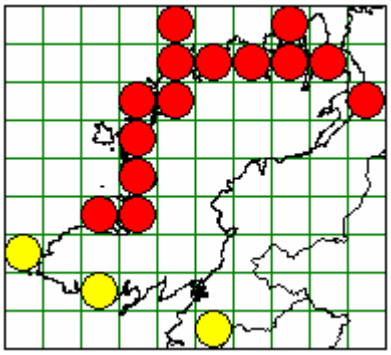
Very common blackening waxcap. Very variable but may be more than one species in this group.

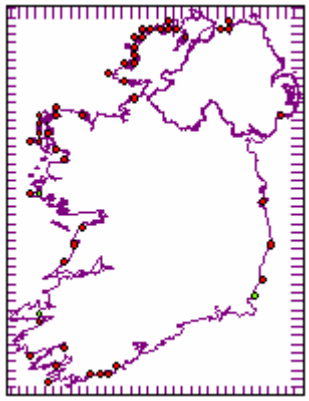




Hygrocybe conica var. conicoides (P.D. Orton) Boertm. Dune Waxcap

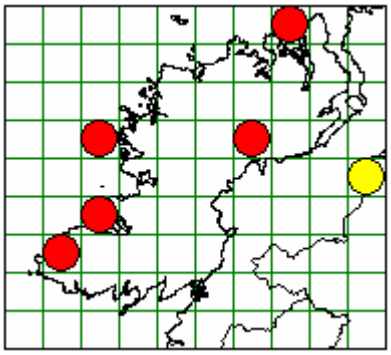
Some authors give this variety species rank and is distinguished by narrower spores. Usually found in sand dunes

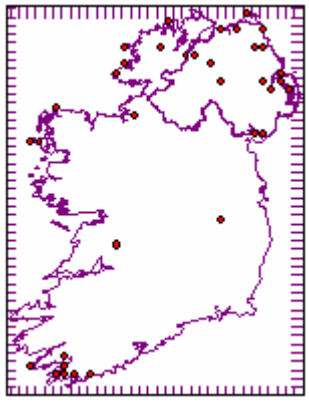




Hygrocybe flavipes (Britzelm.) Arnolds Yellow Foot Waxcap

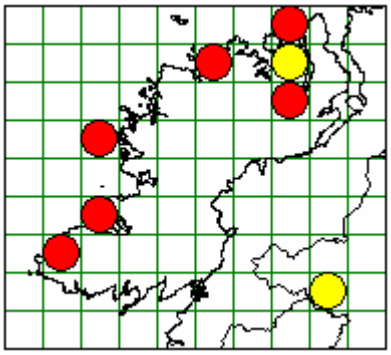
Grey waxcap with a pale stipe with a yellow base. Look out for the similar *H.lacmus* that does not have the yellow base.

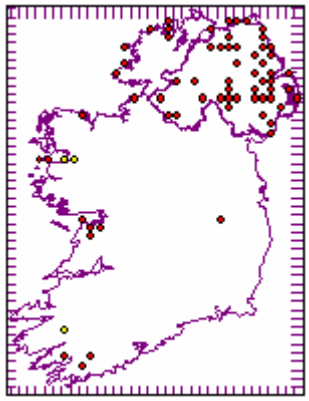




Hygrocybe fornicata (Fr.) Singer Earthy Waxcap

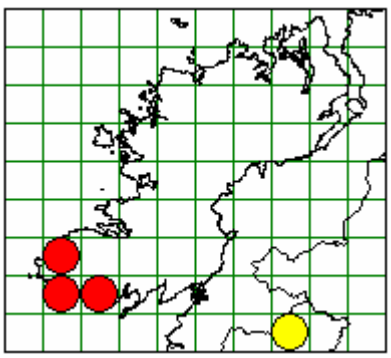
A grey to brown species with ascending gills

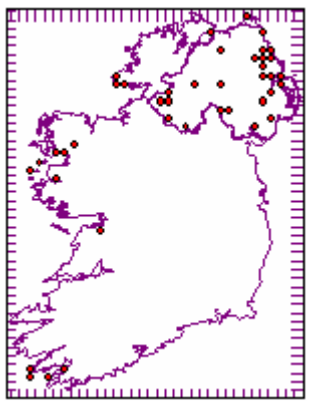




Hygrocybe glutinipes var. glutinipes (J.E. Lange) R. Haller Glutinous Waxcap

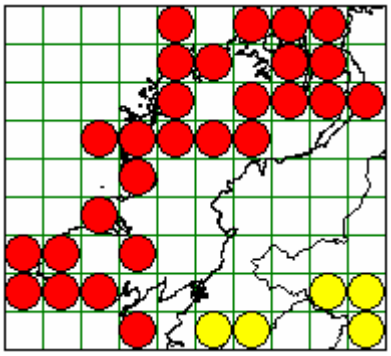
Very viscid and smaller than *H.chlorophana*

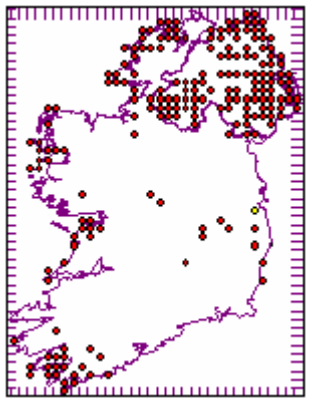




Hygrocybe insipida (Lange ex S. Lundell) M.M. Moser Spangle Waxcap

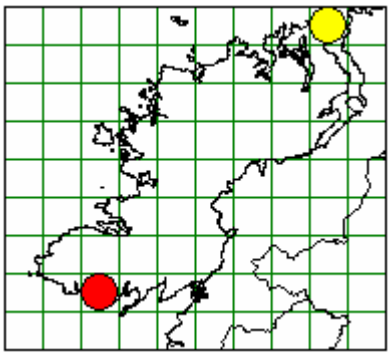
Very common small viscid waxcap. Often with very red stipe at apex contrasting with yellow gills.

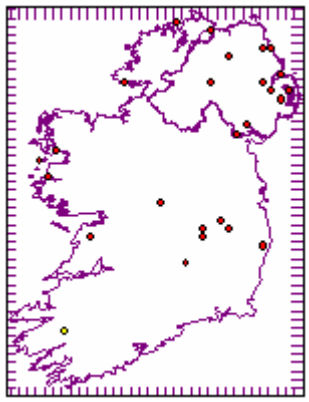




Hygrocybe intermedia (Pass.) Fayod Fibrous Waxcap

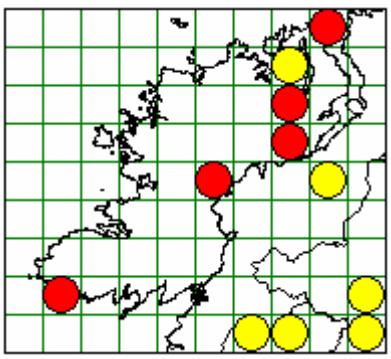
A dry and fibrillose red waxcap that usually fruits very early in the season

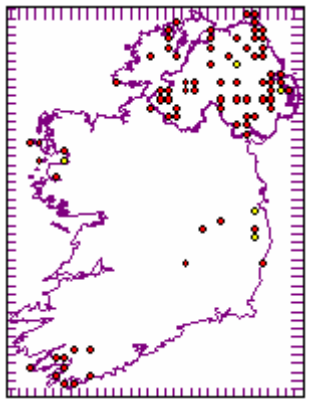




Hygrocybe irrigata (Pers.) M.M. Moser Slimy Waxcap

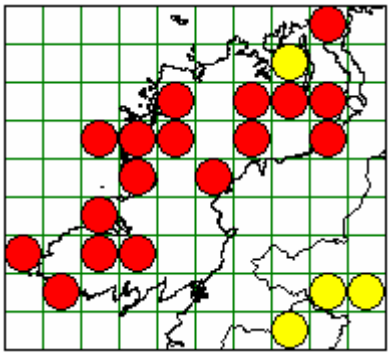
A grey viscid waxcap that can pale with age

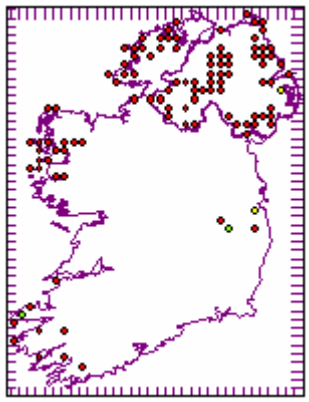




Hygrocybe laeta var. laeta (Pers.) P. Kumm. Heath Waxcap

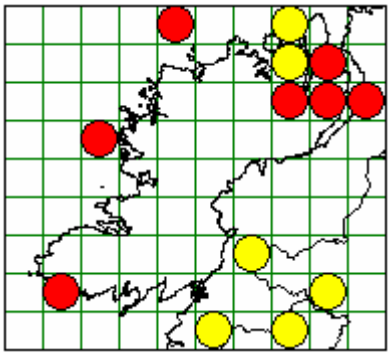
Common especially in acid grassland

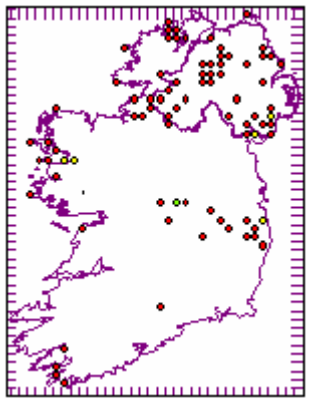




Hygrocybe miniata (Fr.) P. Kumm. Vermilion Waxcap

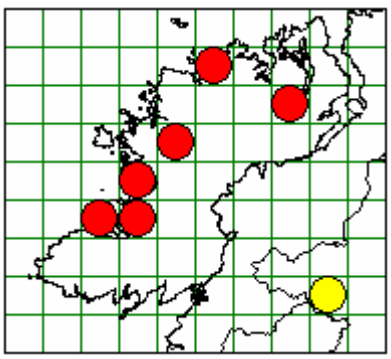
Red, dry, scurfy waxcap with distinctive spores

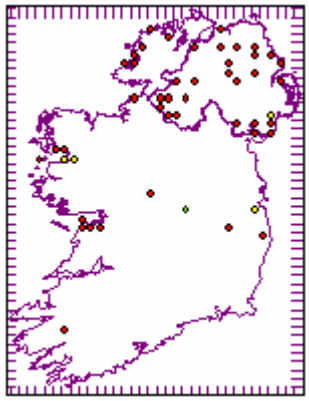




Hygrocybe mucronella (Fr.) P. Karst. Bitter Waxcap

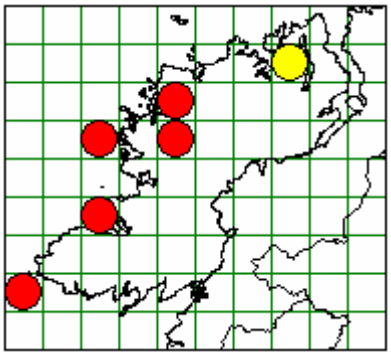
Often overlooked but with a very bitter taste if touched with the tongue.

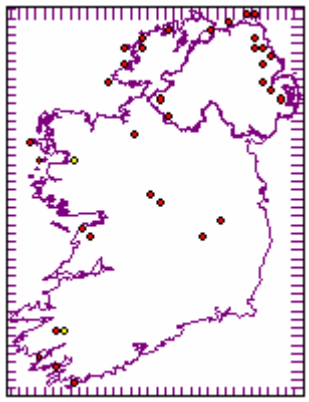




Hygrocybe nitrata (Pers.) Wünsche Nitrous Waxcap

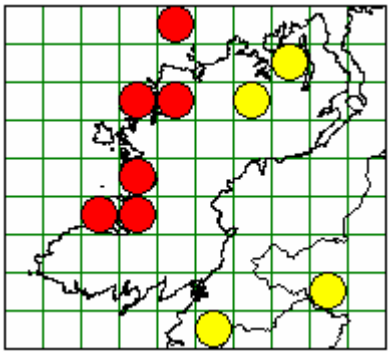
One of the rarer and more unusual species with a strong nitrous smell

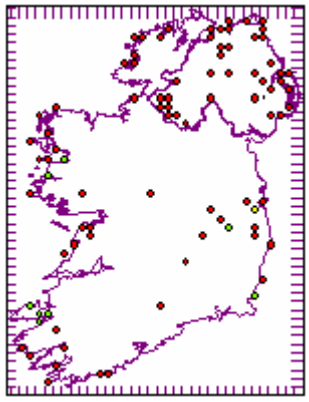




Hygrocybe persistens var. persistens (Britzelm.) Singer Persistent Waxcap

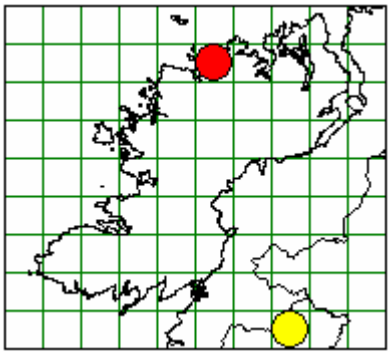
Often confused with *H.conica* but does not blacken. One of the earlier waxcaps to fruit.

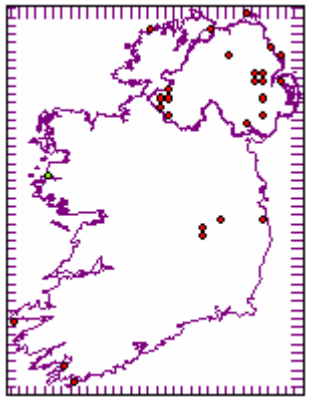




Hygrocybe pratensis var. pallida (Cooke) Arnolds Pale Waxcap

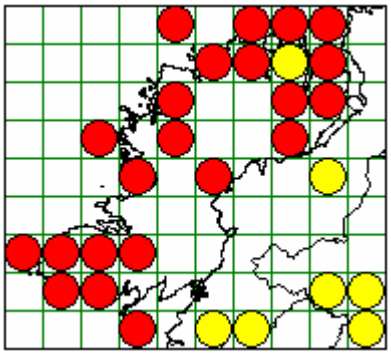
Also recorded as *H.berkeleyi* - a white *H.pratensis*

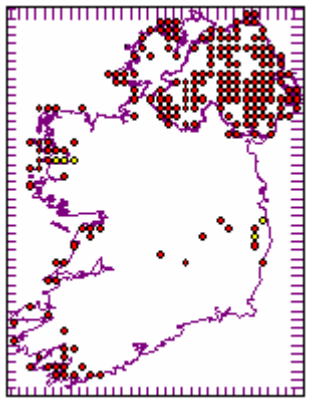




Hygrocybe pratensis var. pratensis (Pers.) Murrill Meadow Waxcap

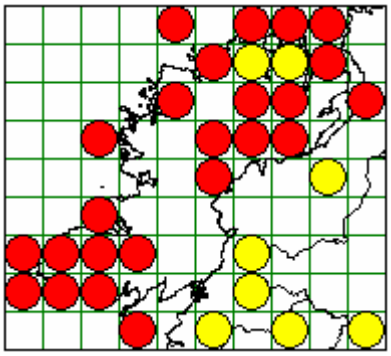
One of the largest waxcaps that can be very abundant

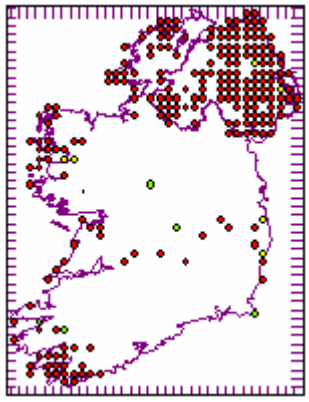




Hygrocybe psittacina var. psittacina (Schaeff.) P. Kumm. Parrot Waxcap

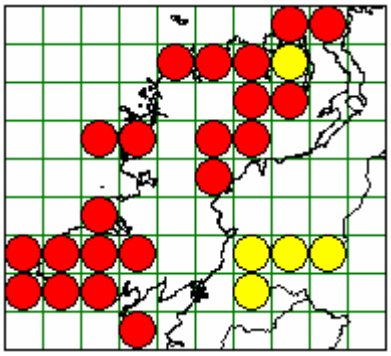
Usually very common and distinguished by its green colours

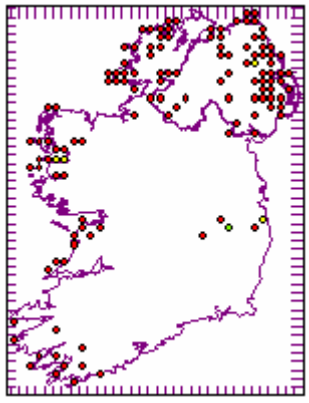




Hygrocybe punicea (Fr.) P. Kumm. Crimson Waxcap

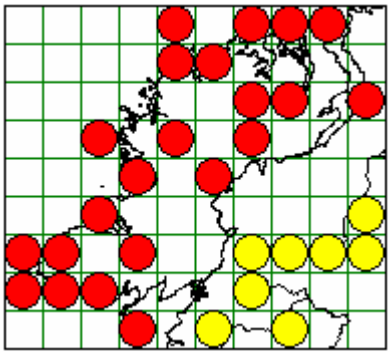
Large and notable with a dull crimson colour and fibrous stipe

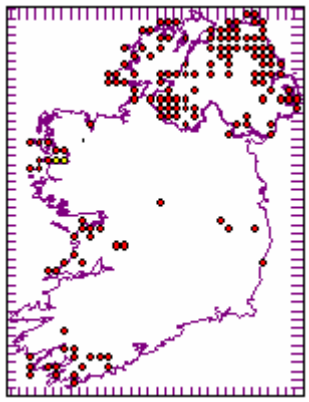




Hygrocybe quieta (Kühner) Singer Oily Waxcap

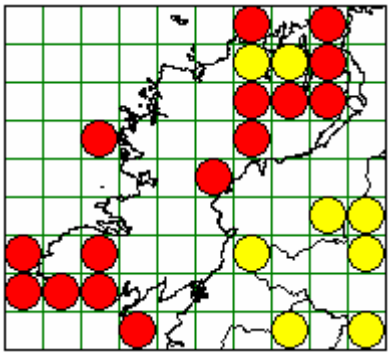
Noted for its oily smell

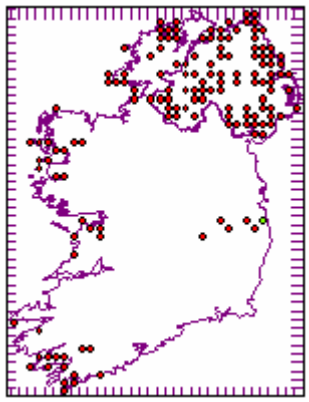




Hygrocybe reidii Kühner Honey Waxcap

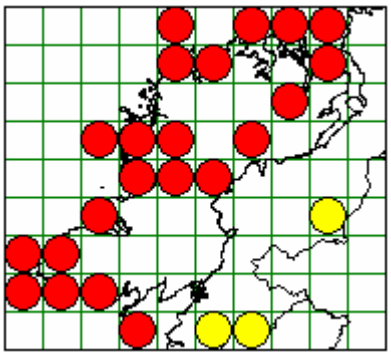
Recognised by its honey smell especially if rubbed. Not uncommon

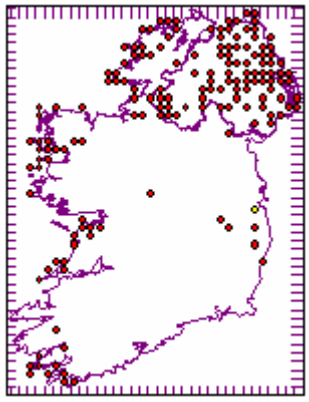




Hygrocybe russocoriacea (Berk. & Mill.) P.D. Orton & Watling Cedarwood Waxcap

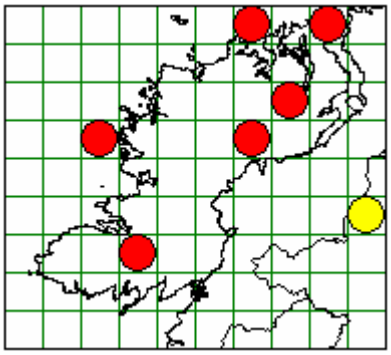
Noted by its amazing smell of cedar wood

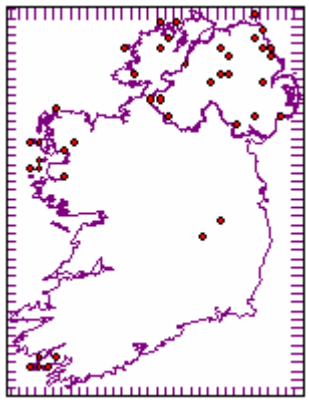




Hygrocybe splendidissima (P.D. Orton) P.D. Orton & Watling Splendid Waxcap

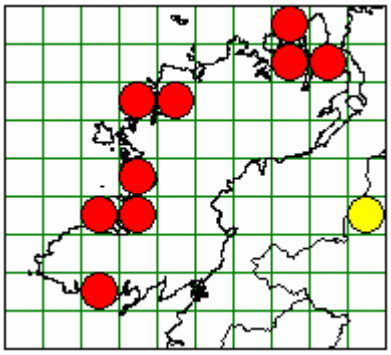
Large scarlet waxcap smelling of honey if the stipe is rubbed. Usually found in acid grassland

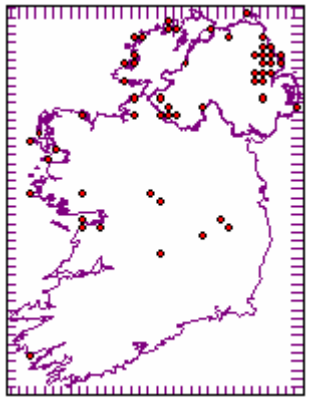




Hygrocybe virginea var. fuscescens (Bres.) Arnolds

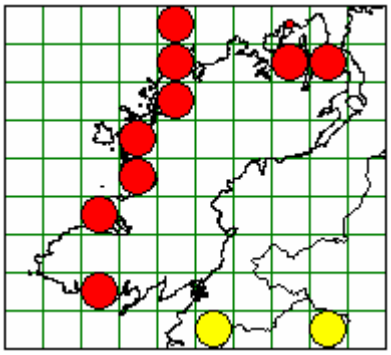
A variety with a brown centre to the cap

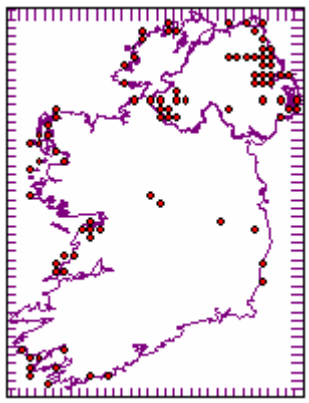




Hygrocybe virginea var. ochraceopallida (P.D. Orton)

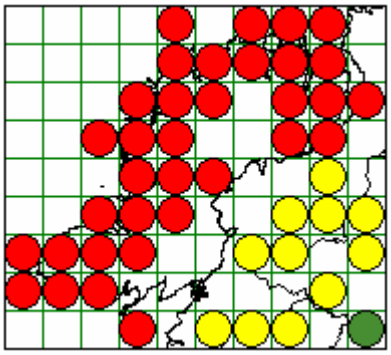
This variety is usually found in calcareous grassland

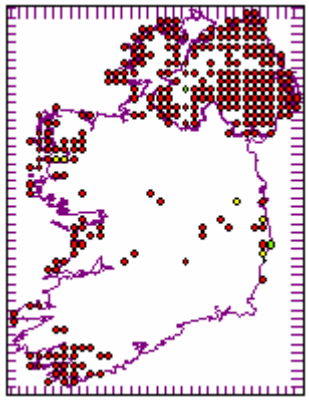




Hygrocybe virginea var. virginea (Wulfen) P.D. Orton & Watling Snowy Waxcap

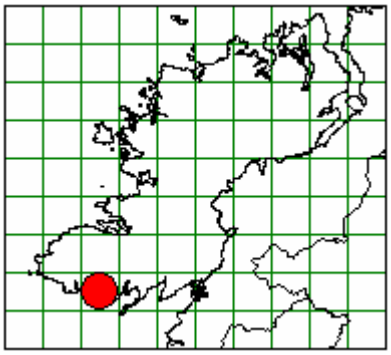
A very common species

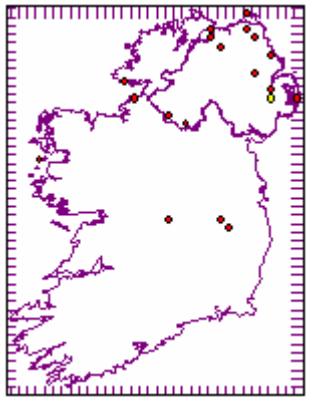




Microglossum olivaceum (Pers.) Gillet Olive Earthtongue

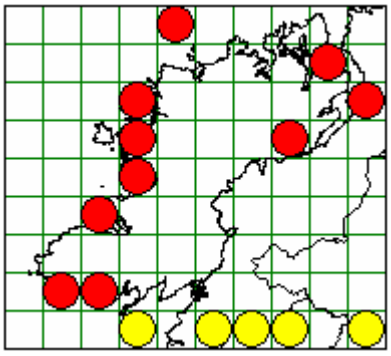
The olive green earth tongue that does have a number of colour variants. A Northern Ireland Priority Species

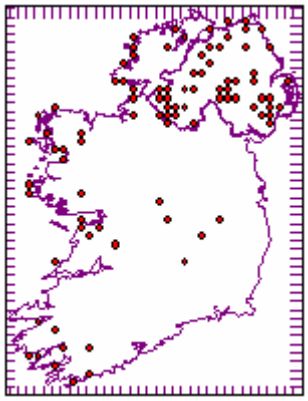




Trichoglossum hirsutum (Pers.) Boud. Hairy Earthtongue

An earth tongue with noticeable setae like hairs which can be seen with the naked eye especially on the stipe



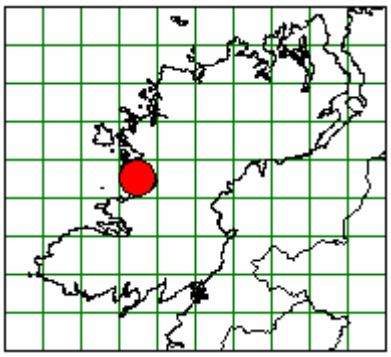


Other Species

Boletes and Agarics

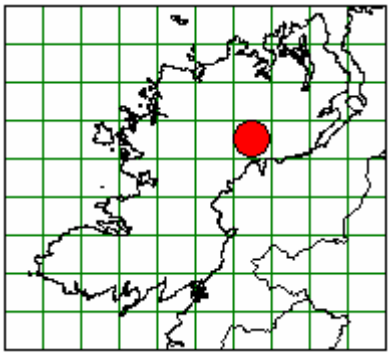
Agaricus bernardii Quél.

A white, later dirty brown, Agaric more commonly found in coastal grasslands in Ireland.



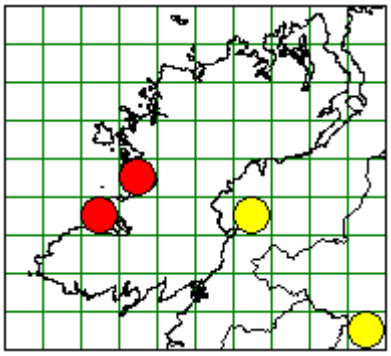
Agaricus macrocarpus (F.H. Møller) F.H. Møller

A large Agaric similar to *A.arvensis* but larger



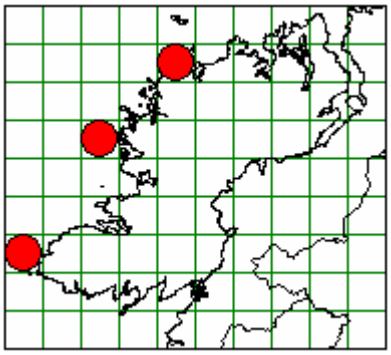
Agaricus silvaticus Schaeff. Blushing Wood Mushroom

A strongly reddening agaric usually found in woodland but also in grassland



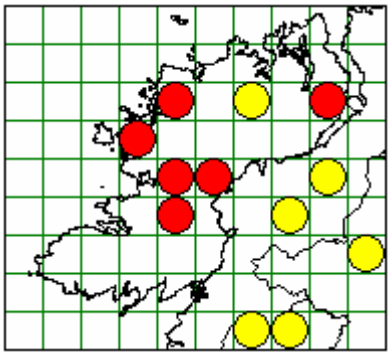
Agaricus urinascens (F.H. Møller & Jul. Schäff.) Macro Mushroom

More commonly known as Agaricus macrosporus that can grow to very large sizes



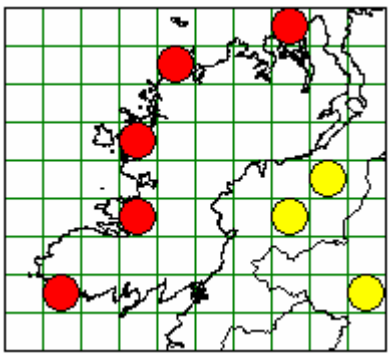
Armillaria gallica Merxm. & Romagn. Bulbous Honey Fungus

The most common Honey Fungus in much of Ireland with a bulbous base. Not as pathogenic as *A.mellea*.



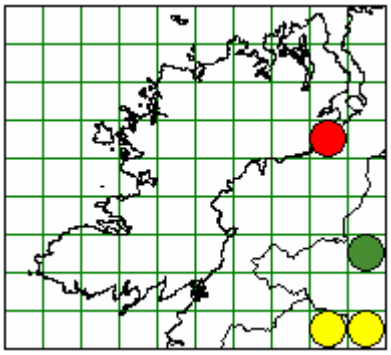
Bolbitius vitellinus (Pers.) Fr. Yellow Fieldcap

A common species found on decaying grass or dung



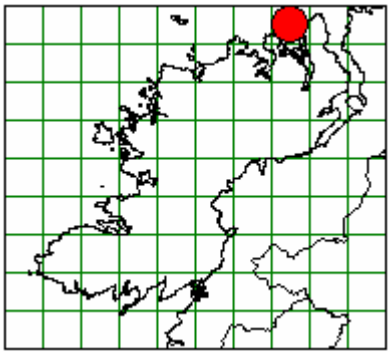
Boletus badius Fr. Bay Bolete

Common on coniferous trees but also found on deciduous trees



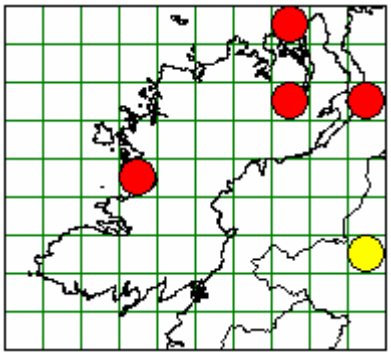
Chamaemyces fracidus (Fr.) Donk Dewdrop Dapperling

Rarely recorded in Ireland - a notable record



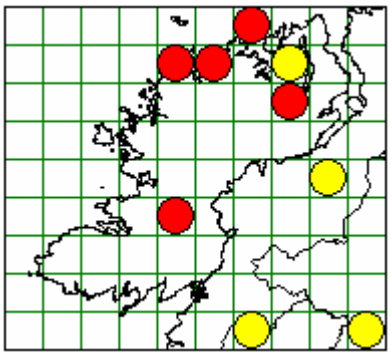
Clitocybe dealbata Sowerby Ivory Funnel

A very poisonous small white fungus often with a frosted cap found in grasslands



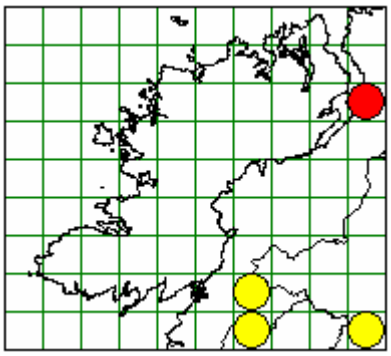
Clitocybe fragrans Sowerby Fragrant Funnel

Not uncommon in grasslands with a striking smell



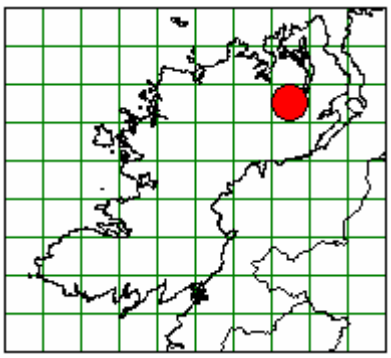
Clitocybe nebularis (Batsch) Quél. Clouded Funnel

A common saprophyte in leaf litter. Often appearing late in the season.



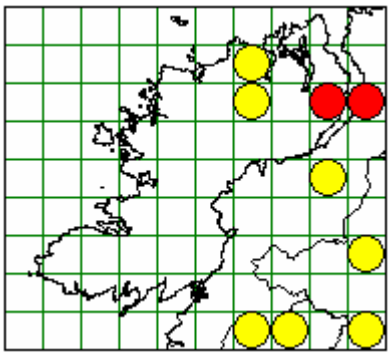
Clitocybe vibecina (Fr.) Quél. Mealy Funnel

A grey Clitocybe with decurrent gills



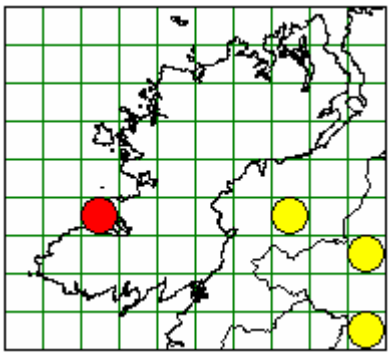
Collybia butyracea f. butyracea (Bull.) P. Kumm. Butter Cap

A common saprophyte in leaf litter



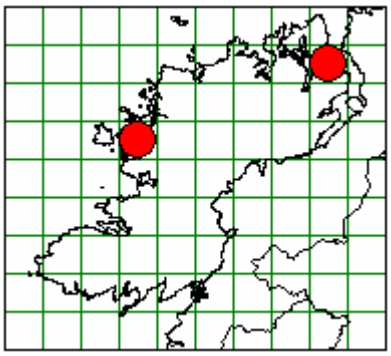
Collybia dryophila (Bull.) P. Kumm. Russet Toughshank

A very common species although rarer further north in Ireland



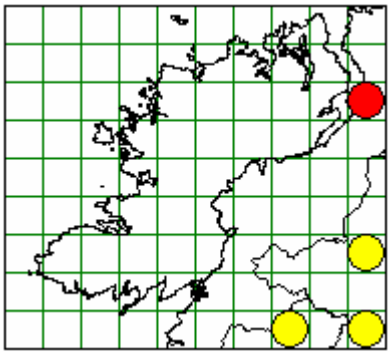
Coprinopsis ammophilae (Courtec.) Redhead, Vilgalys & Moncalvo Dune Inkcap

A small inkcap found on Marram Grass in foredunes



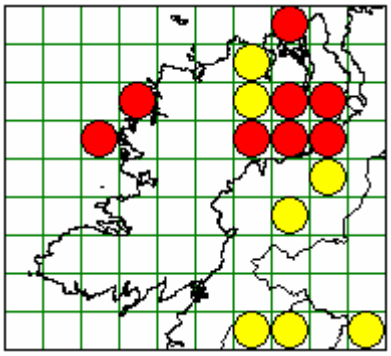
Coprinopsis atramentarius (Bull.) Fr. Common Inkcap

Should never to eaten along with alcohol



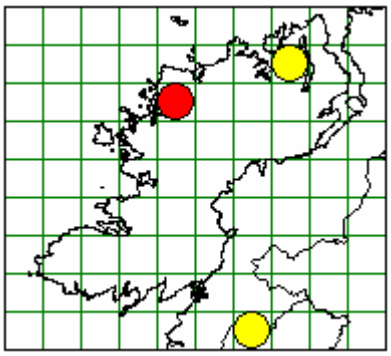
Coprinus comatus (O.F. Müll.) Gray Shaggy Inkcap

Also known as the Lawyer's Wig



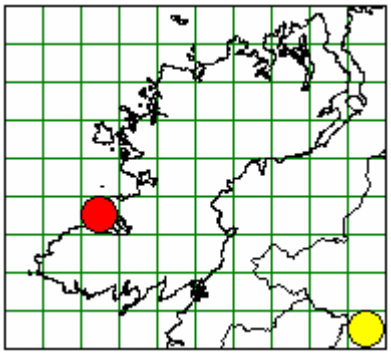
Coprinopsis niveus (Pers.) Fr. Snowy Inkcap

A snowy white inkcap on dung



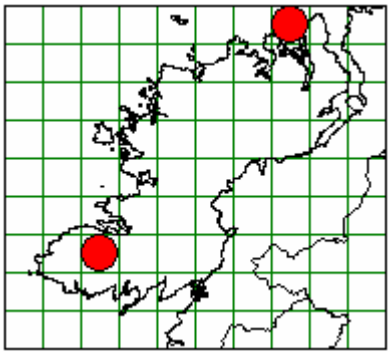
Cortinarius anomalus Fr. Variable Webcap

A variable ectomycorrhizal species here found on Salix repens



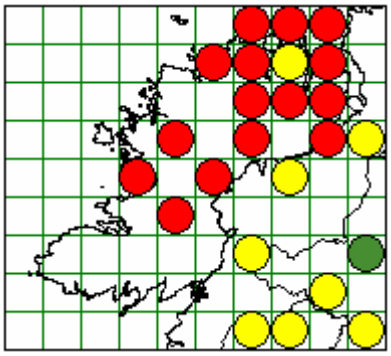
Cortinarius croceus Fr.

An ectomycorrhizal species often found in open grassland with no "usual" ectomycorrhizal species nearby. Possibly mycorrhizal with Carex species. Very similar to *C.cinnamomeus*



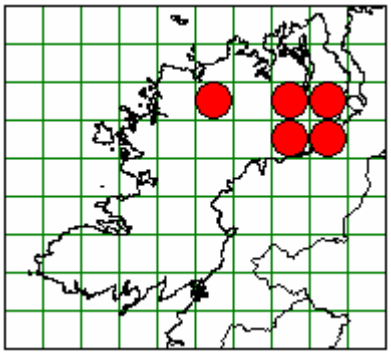
Cystoderma amianthinum (Scop.) Fr. Earthy Powdercap

A common grassland species



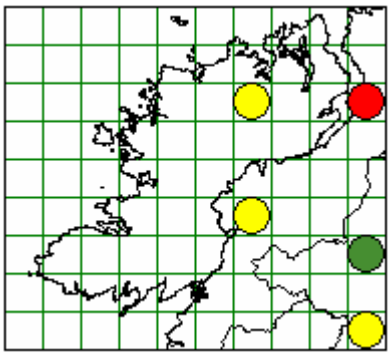
Galerina vittiformis (Fr.) Singer Hairy Leg Bell

Will be more common as it was not systematically looked for.



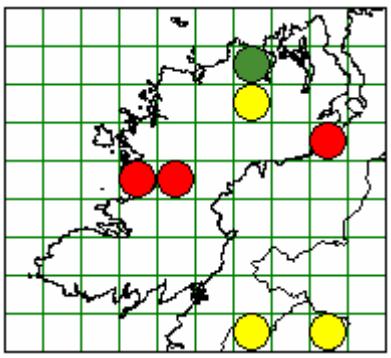
Gymnopilus junonius (Fr.) P.D. Orton Spectacular Rustgill

Large orange fungus growing on trees



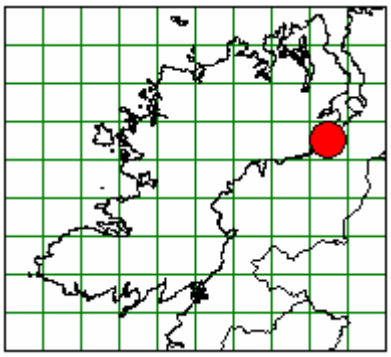
Hebeloma crustuliniforme (Bull.) Quél. Poisonpie

Often over-recorded with a strong radish smell. Spores are non-dextrinoid



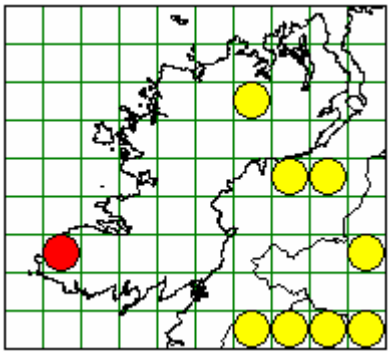
Hebeloma radicosum (Bull.) Ricken Rooting Poisonpie

A very large viscid Hebeloma with a slimy ring smelling of marzipan. Usually found associated with mole or wood mouse latrines



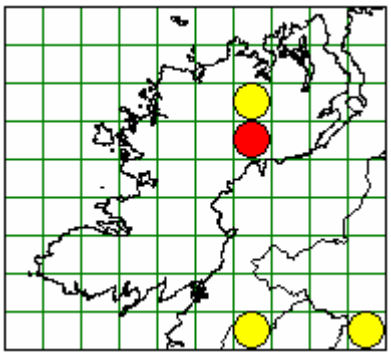
Hypholoma fasciculare (Huds.) P. Kumm. Sulphur Tuft

Very common saprophyte



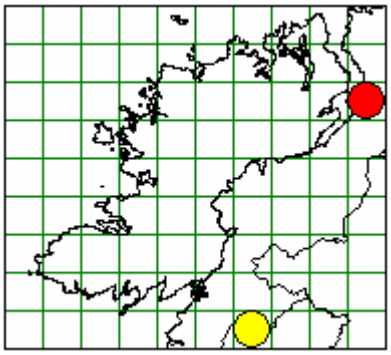
Inocybe geophylla var. lilacina Gillet Lilac Fibrecap

Common purple ectomycorrhizal species with brown spore print



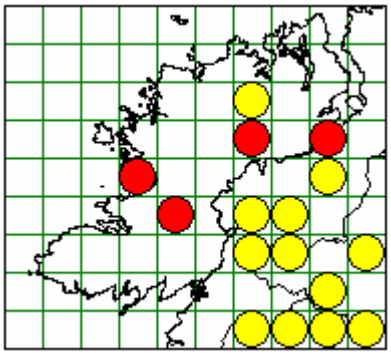
Inocybe rimosa (Bull.) P. Kumm. Split Fibrecap

A large Inocybe with smooth spores that may actually be a number of different species



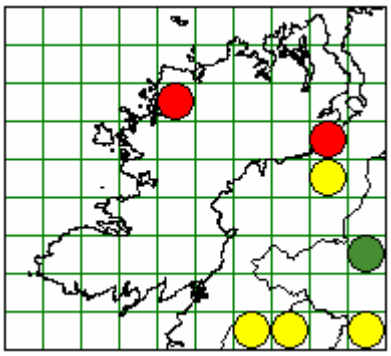
Laccaria laccata (Scop.) Fr. Deceiver

The Deceiver which as its name suggests is very variable



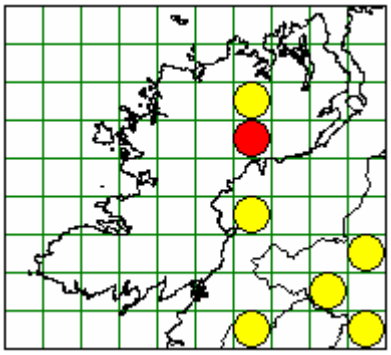
Lacrymaria lacrymabunda (Bull.) Pat. Weeping Widow

The Weeping Widow with dark drops on the gills



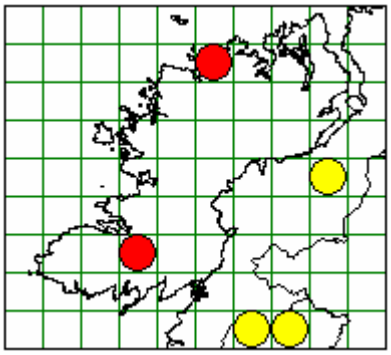
Lactarius blennius (Fr.) Fr. Beech Milkcap

Very common Milk cap under beech



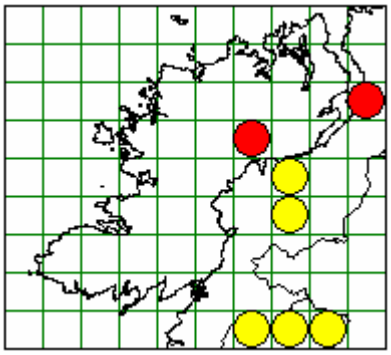
Lactarius deterrimus Gröger False Saffron Milkcap

Found under spruce - with carrot coloured milk - looks like *L.deliciosus* which is found under Pines



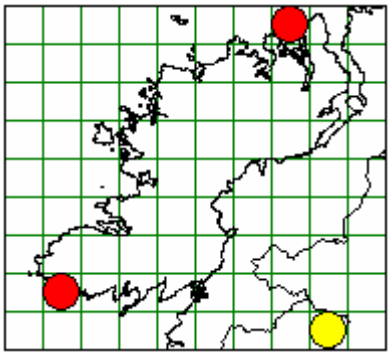
Lactarius glyciosmus (Fr.) Fr. Coconut Milkcap

A coconut smelling milk cap often found associated with Birch



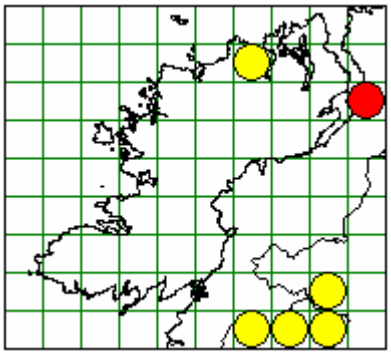
Lactarius lacunarum Romagn. ex Hora

Notably found on the Salix repens in coastal heath. Usually in damp woodland



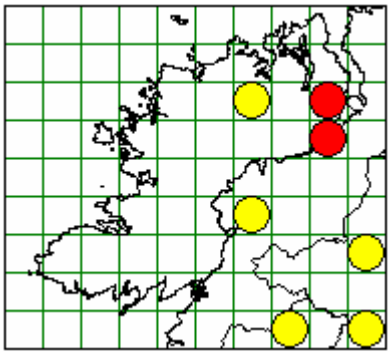
Lactarius pubescens Fr. Bearded Milkcap

Commonly associated with young Birch



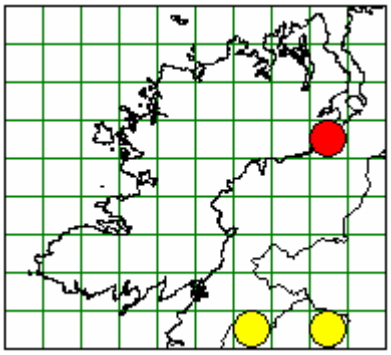
Lactarius quietus (Fr.) Fr. Oakbug Milkcap

Very common under Oak. Has a distinctive smell



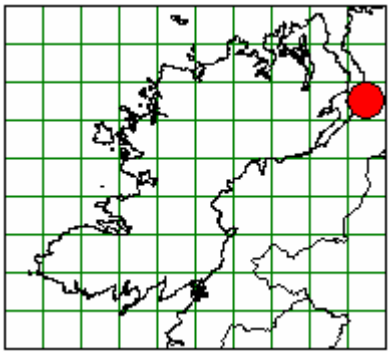
Lactarius vietus (Fr.) Fr. Grey Milkcap

A pale Milk Cap found under Birch with hot milk



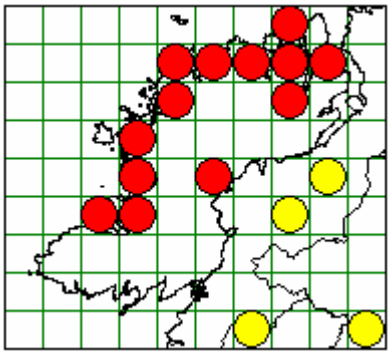
Leccinum cyaneobasileucum Lannoy & Estades

Once thought to be a separate white Leccimum, this name includes the common species with grey wooly scabers on the stipe that used to be called *L.brunneogriseolum*



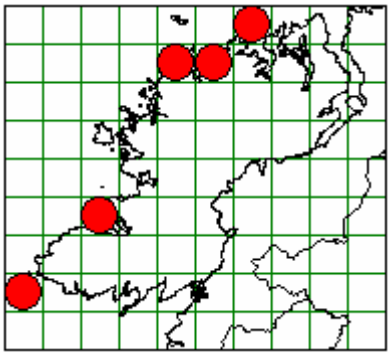
Lepista nuda (Bull.) Cooke Wood Blewit

Very common in grassland as well as woods and gardens



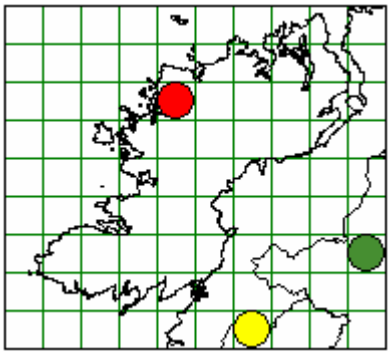
Lepista panaeola (Fr.) P. Karst.

Unusual species of Lepista with grey brown colours



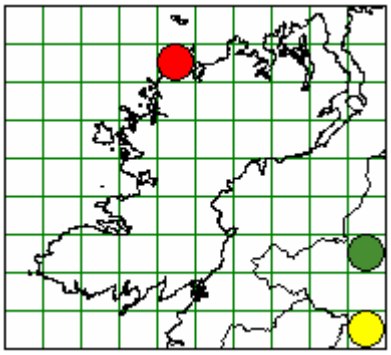
Macrocystidia cucumis (Pers.) Joss. Cucumber Cap

A distinctive species with a strong smell of cucumber and very large cystidia



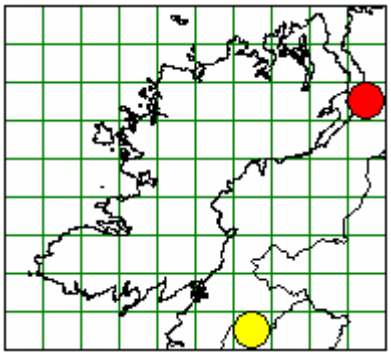
Marasmius oreades (Bolton) Fr. Fairy Ring Champignon

The Fairy Ring Champignon with a very tough stipe



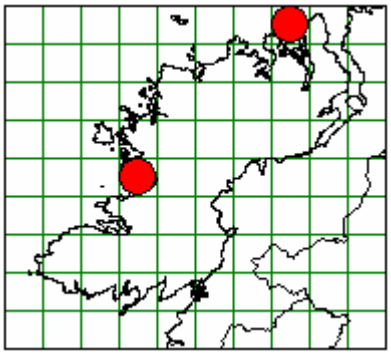
Marasmius setosus (Sowerby) Noordel.

A small white Marasmius on beech leaves



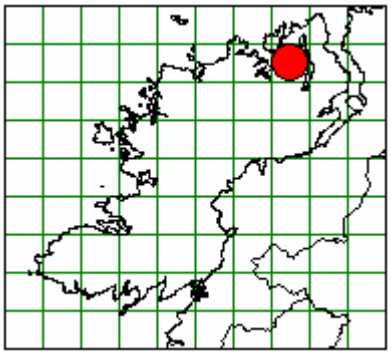
Melanoleuca cinereifolia (Bon) Bon

A grey Melanoleuca with grey gills found in embryo dunes



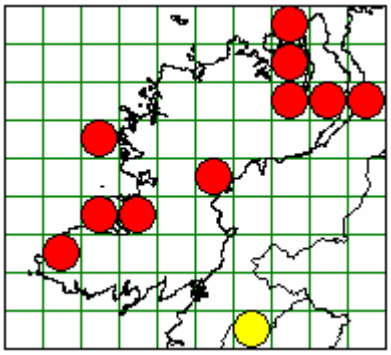
Melanoleuca friesii (Bres.) Bon

Very similar to *M.polioleuca* but with most cheilocystidia lageniform rather than fusiform as with *M.polioleuca*



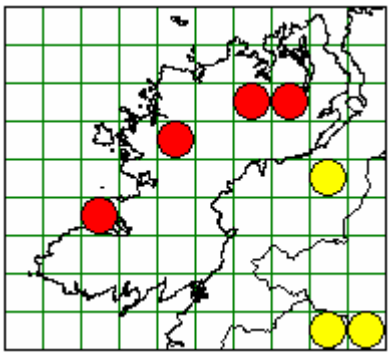
Melanoleuca polioleuca f. polioleuca (Fr.) Kühner & Maire Common Cavalier

Often recorded as *M. melaleuca* in the past but the latter lacks cystidia



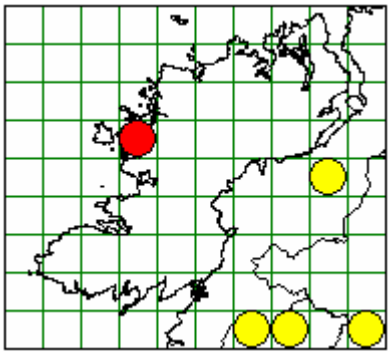
Mycena epipterygia var. epipterygia (Scop.) Gray Yellowleg Bonnet

Has a cap with a viscid layer that can peel off.



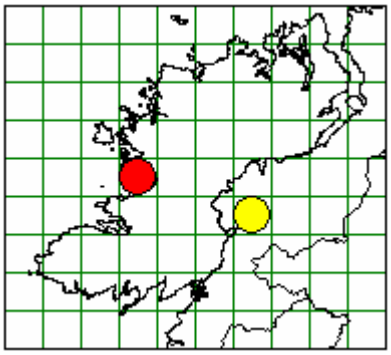
Mycena galericulata (Scop.) Schaeff. Common Bonnet

Common on wood



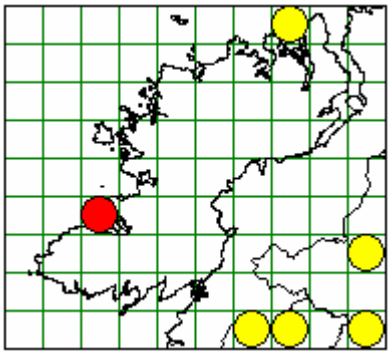
Mycena leptocephala (Pers.) Gillet Nitrous Bonnet

A grey Mycena with a strong nitrous smell. If found on grassland, it is usually on buried wood.



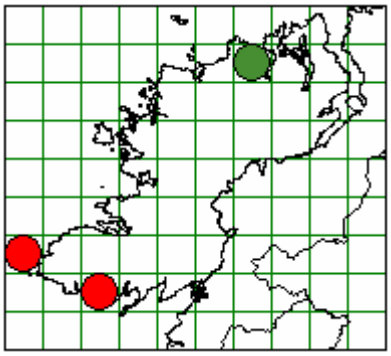
Mycena pura var. pura (Pers.) P. Kumm. Lilac Bonnet

Common species of woodland and grassland with strong radish smell



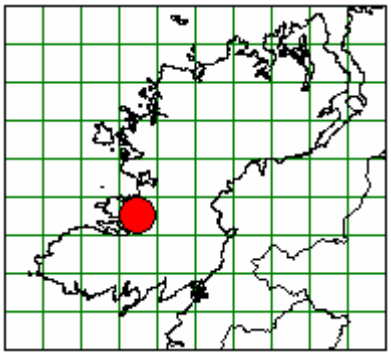
Omphalina pyxidata (Bull.) Quél.

A small Omphalina with strongly decurrent gills



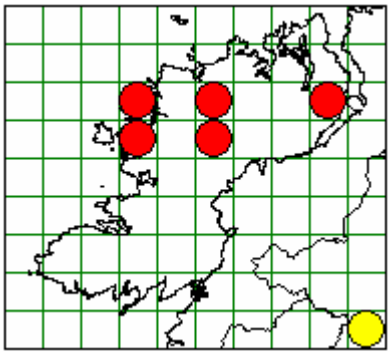
Omphalina subhepatica (Batsch) Murrill

A small Omphalina with very decurrent gills on dune grassland



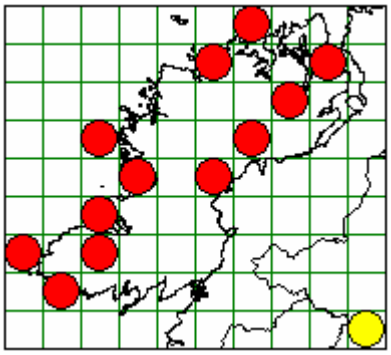
Panaeolina foenisecii (Pers.) Maire Brown Mottlegill

Very common in domestic lawns



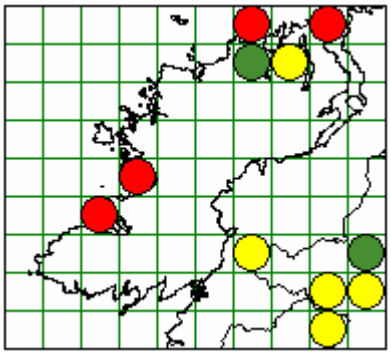
Panaeolus acuminatus (Schaeff.) Gillet Dewdrop Mottlegill

Very common "little brown job" with mottled gills



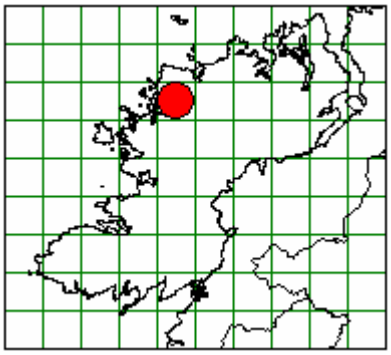
Panaeolus papilionaceus var. papilionaceus (Bull.) Petticoat Mottlegill

Very common - includes *P.sphinctrinus*



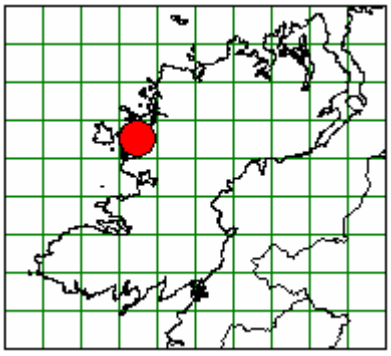
Pholiota conissans (Fr.) M.M. Moser

A small pale yellow *Pholiota* that is sometimes found in grasslands when it is associated with the roots of grasses



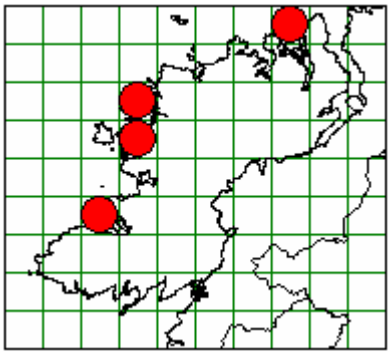
Pluteus griseoluridus P.D. Orton

A small brown *Pluteus* that can be found on Marram grass in dune systems



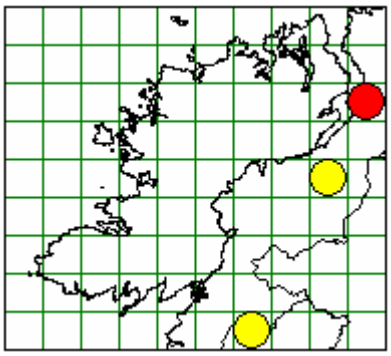
Psathyrella ammophila (Durieu & Lév.) P.D. Orton Dune Brittlestem

Found in embryo dunes



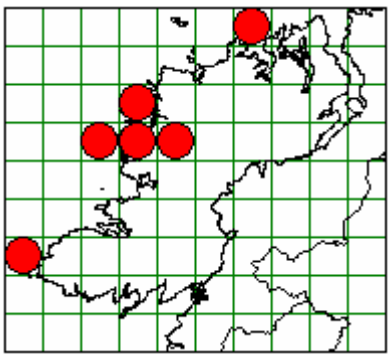
Psathyrella conopilus (Fr.) A. Pearson & Dennis Conical Brittlestem

A *Psathyrella* with very distinctive cap cells



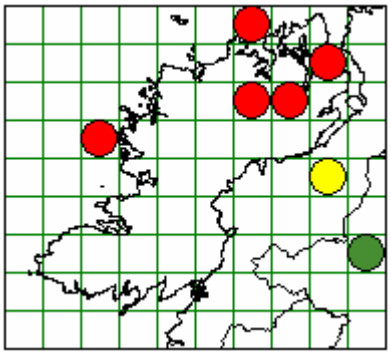
Psilocybe coprophila (Bull.) P. Kumm.

Small fungus on dung



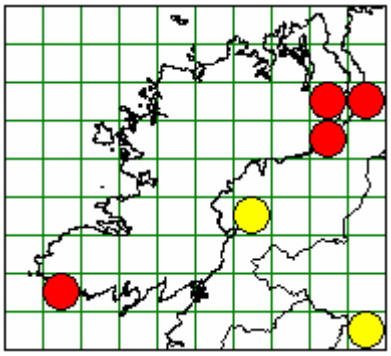
Psilocybe semilanceata (Fr.) P. Kumm. Liberty Cap

The Magic Mushroom – a common species with a distinctive nipple



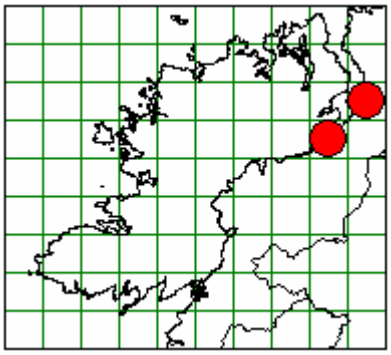
Rickenella fibula (Bull.) Raithelh. Orange Mosscap

Small orange fungus with decurrent gills found in grassland



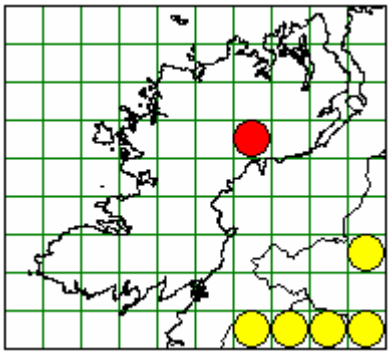
Rickenella swartzii (Fr.) Kuyper Collared Mosscap

Small fungus with a distinct black spot in centre of cap and decurrent gills.



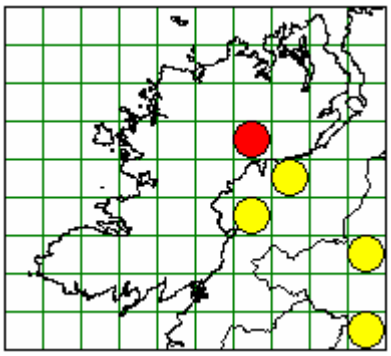
Russula betularum Hora Birch Brittlegill

Small red Russula that can fade to white. Firey taste to the gills



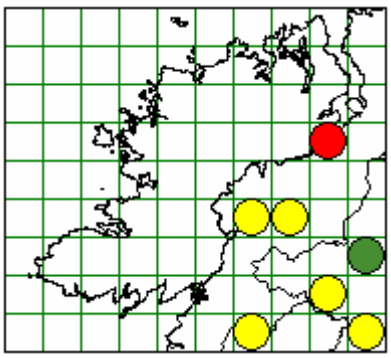
Russula cyanoxantha (Schaeff.) Fr. Charcoal Burner

A variable edible Russula with waxy gills.



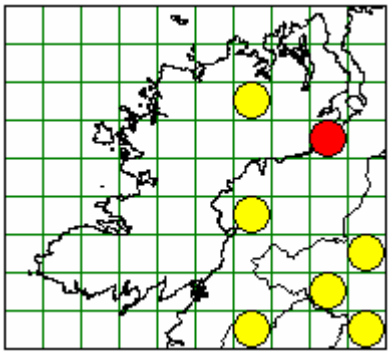
Russula delica Fr. Milk White Brittlegill

Large white Russula with a depressed centre to the cap



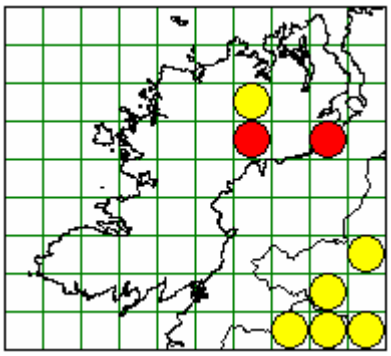
Russula mairei Singer Beechwood Sickener

Bright red species with very white gills under beech now correctly known as *R.nobilis*.



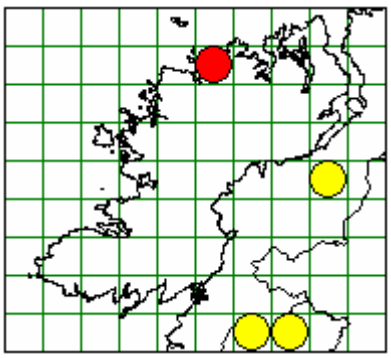
Russula nigricans (Bull.) Fr. Blackening Brittlegill

Large blackening Russula with very distant gills. Very common



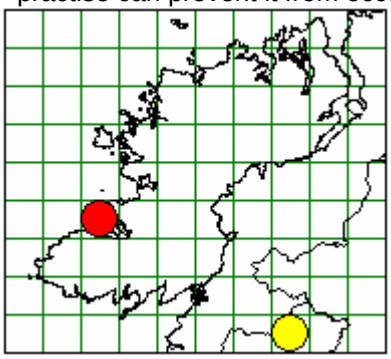
Russula queletii Fr. Fruity Brittlegill

A dark purple Russula associated with Spruce



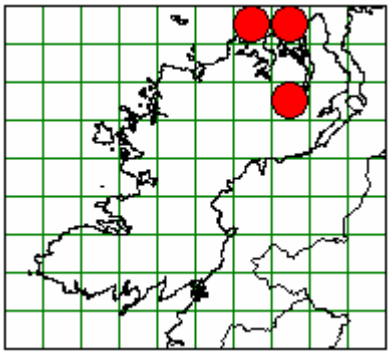
Schizophyllum commune (L.) Fr. Common Porecrust

Found on silage bales. Can badly affect the quality of the silage but good management practise can prevent it from occurring.



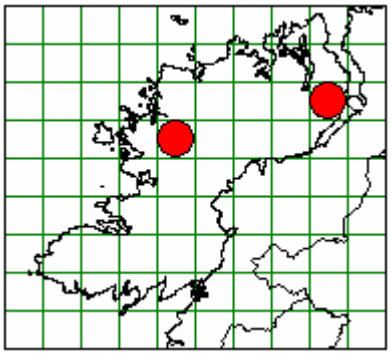
Stropharia aeruginosa (Curtis) Quél.

Striking blue green fungus with a permanent ring



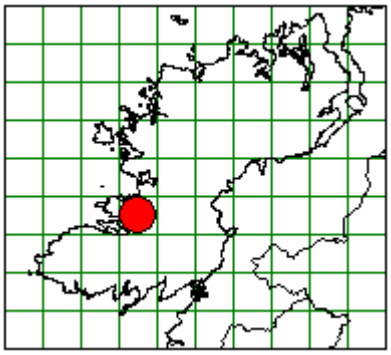
Stropharia albonitens (Fr.) P. Karst.

A striking white viscid *Stropharia* with a ring



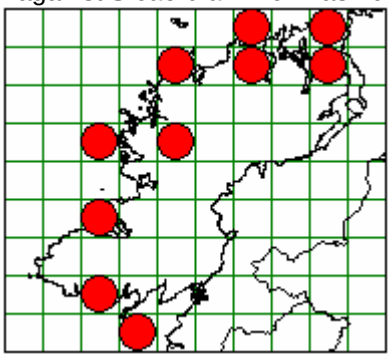
Stropharia coronilla (Bull.) Quél. Garland Roundhead

Found in dune systems and distinguished from *S.halophila* by spore size



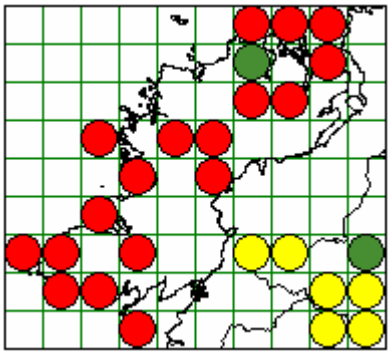
Stropharia pseudocyanea (Desm.) Morgan Peppery Roundhead

An interesting grassland species often with blue and yellow colours. Has to be checked against *S.caerula* which has numerous cells at the gill edge filled with yellow material



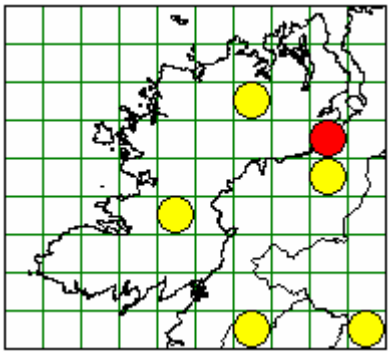
Stropharia semiglobata (Batsch) Quél. Dung Roundhead

Very common on dung



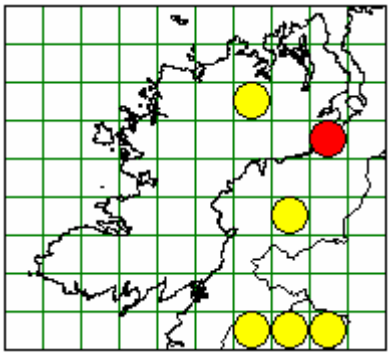
Suillus luteus (L.) Roussel Slippery Jack

A large viscid Bolete with a ring found under Pine



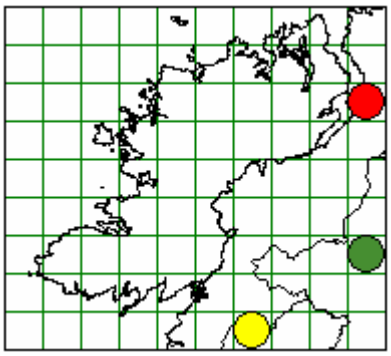
Tricholoma fulvum (Bull.) Bigeard & H. Guill. Birch Knight

Common species under Birch



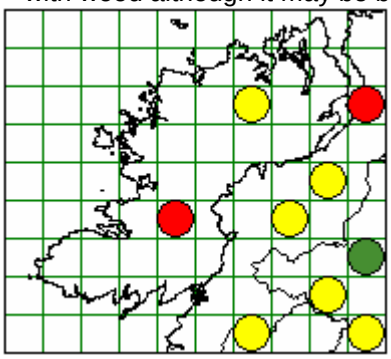
Tricholoma terreum (Schaeff.) P. Kumm. Grey Knight

A grey velvety capped Tricholoma



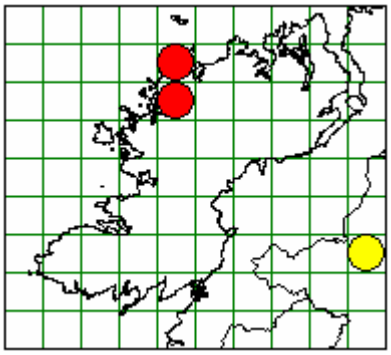
Tricholomopsis rutilans (Schaeff.) Singer Plums and Custard

Distinctive species with a plum coloured cap and custard coloured gills. Always associated with wood although it may be buried.



Volvariella gloiocephala (DC.) Fr. Stubble Rosegill

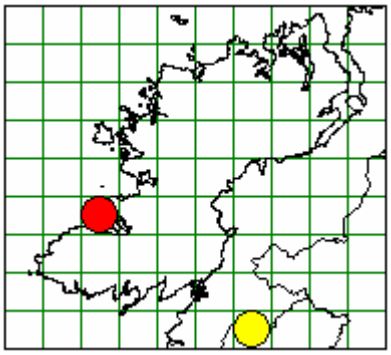
Large pink spored species with a volva. Often in fertilised places



Aphyllophoroid Species (Brackets, chanterelles, etc)

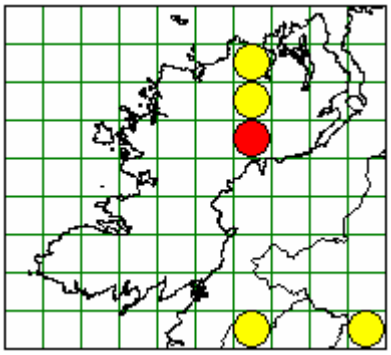
Bjerkandera adusta (Willd.) P. Karst. Smoky Bracket

A greyish white bracket often found with dense overlapping caps



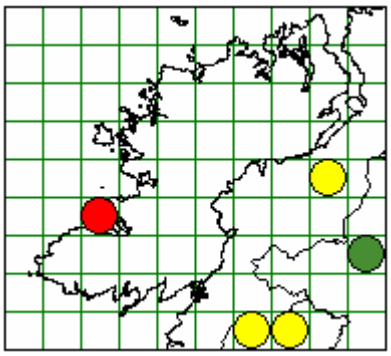
Cantharellus tubiformis var. tubiformis (Bull.) Fr. Trumpet Chanterelle

Related to the Chanterelle but smaller



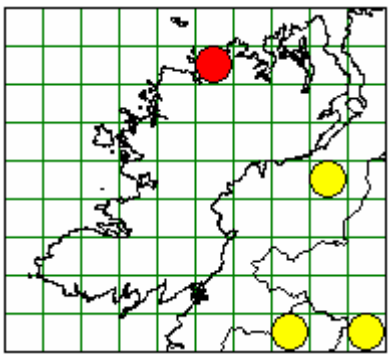
Clavulina cinerea (Bull.) J. Schröt. Grey Coral

A common grey branching Fairy Club mainly found in woodlands



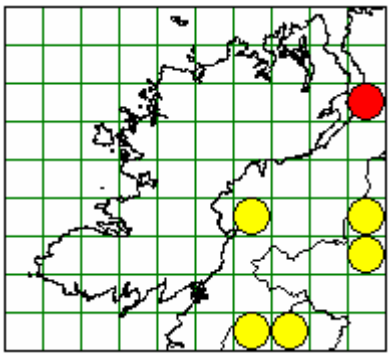
Clavulina rugosa (Bull.) J. Schröt. Wrinkled Club

A woodland species of Fairy Club



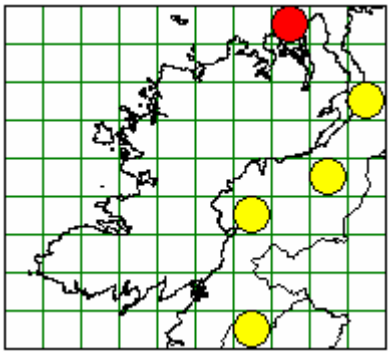
Ganoderma australe (Fr.) Pat. Southern Bracket

A large perennial bracket fungus. Often mixed with *G.applanatum* but the spore sizes are quite different.



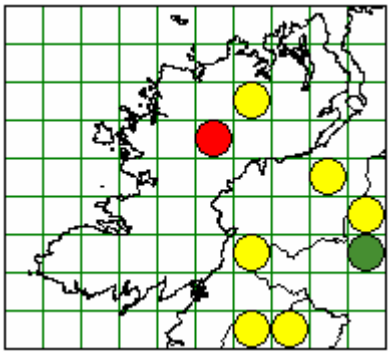
Polyporus squamosus (Huds.) Fr. Dryad's Saddle

A huge scaly bracket often fruiting very early in the year



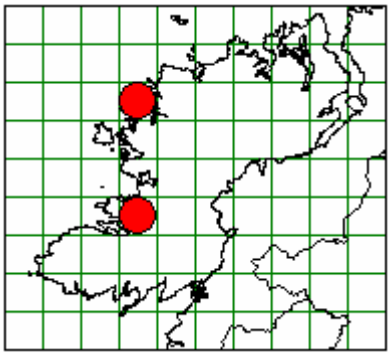
Stereum rugosum (Pers.) Fr. Bleeding Broadleaf Crust

A bracket that reddens if cut



Typhula micans (Pers.) Berthier

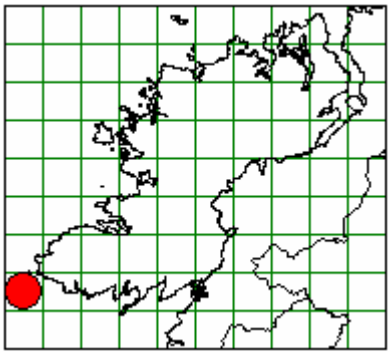
A small pink Typhula found on leaves or stems



Gasteroid species (puffballs, earth stars etc)

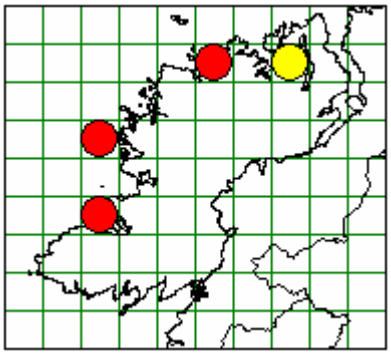
Bovista nigrescens Pers. Brown Puffball

Subglobose fruitbody that can persist in dried state for months. Unlike puffballs, the whole fruiting body breaks up to release spores.



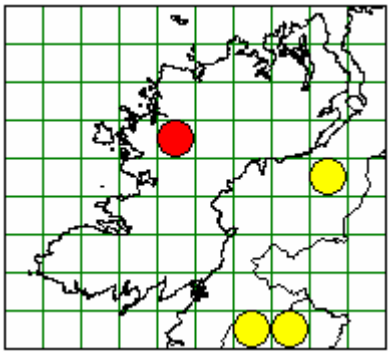
Bovista plumbea Pers. Grey Puffball

Common on grasslands. Smaller than *B.nigrescens*



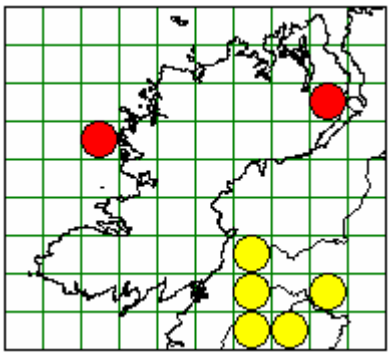
Lycoperdon excipuliformis (Scop.) Pers. Pestle Puffball

A large puffball with a long stipe, Used to be known as *Handkea excipuliformis*



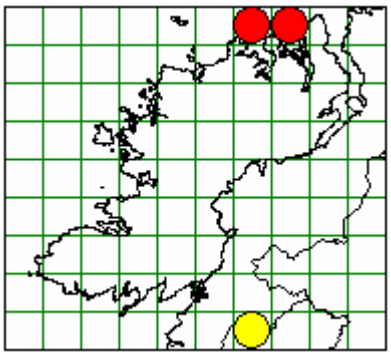
Lycoperdon nigrescens Wahlenb. Dusky Puffball

A puffball with black scales found in grassland



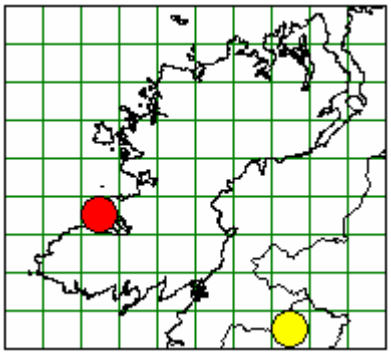
Lycoperdon pratense (Pers.) Kreisel Meadow Puffball

A common grassland puffball noted by a distinct line between the stipe and main body of the fungus if sliced. Used to be known as *Vascellum pratense*



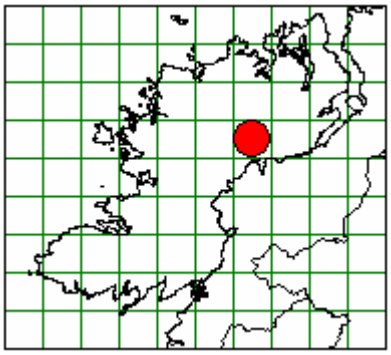
Lycoperdon utriforme Bull. Mosaic Puffball

Large puffball found in grasslands. Used to be known as *Handkea utriformis*



Scleroderma bovista Fr. Potato Earthball

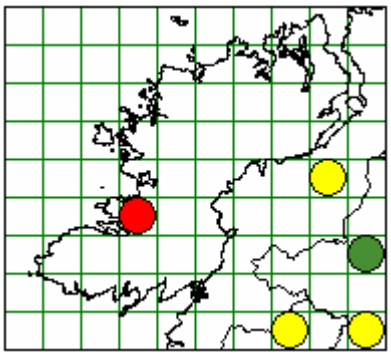
A common earthball with a complete reticulum on its spores. Can push up tarmac.



Jelly Fungi

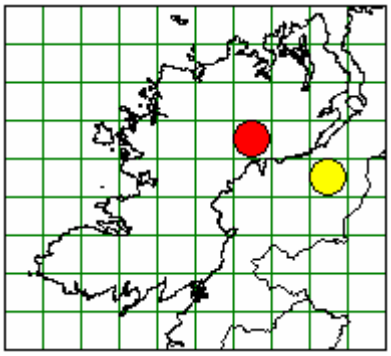
Dacrymyces stillatus Nees Common Jellyspot

Small orange jelly found on wood, often on treated, fence posts or benches.



Exidia recisa (Ditmar) Fr.

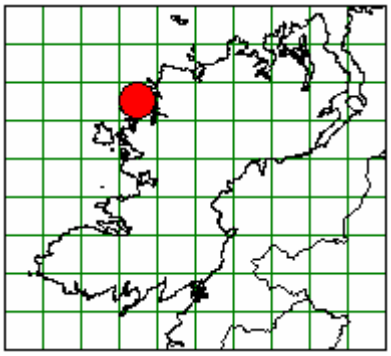
A jelly found on Salix wood



Ascomycetes

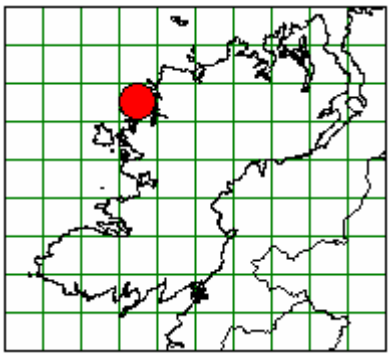
Ascobolus carbonarius P. Karst.

A small discomycete found on bonfire sites



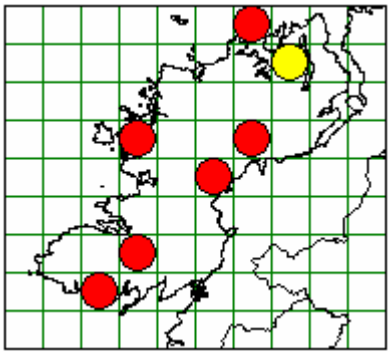
Cheilymenia granulata (Bull.) J. Moravec

Common discomycete on cattle dung



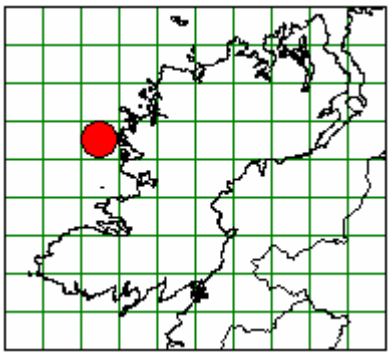
Cordyceps militaris (L.) Link Scarlet Caterpillarclub

The Caterpillar Killer which parasitises moth pupae in grassland



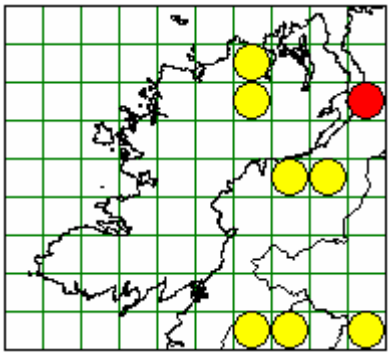
Gloniella adianti (Kunze) Petr.

A small black ascomycete found on Ferns or Juniper



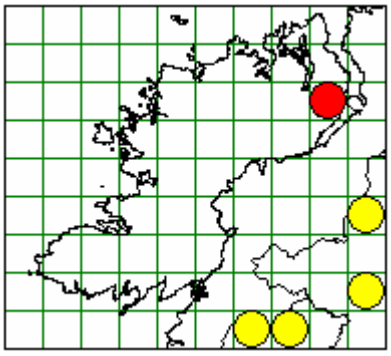
Helvella lacunosa Afzel. Elfin Saddle

The black bone fungus



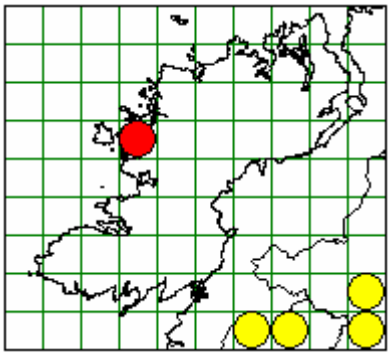
Hypoxylon fuscum (Pers.) Fr. Hazel Woodwart

Very common black spots on Hazel



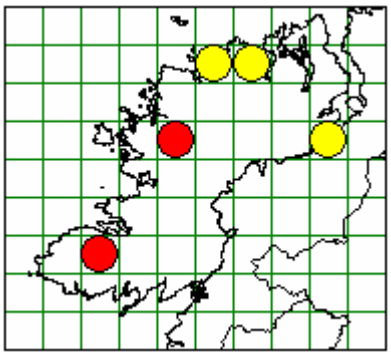
Hypoxylon multiforme (Fr.) Fr. Birch Woodwart

A black crust like fungus on wood with numerous osteoles



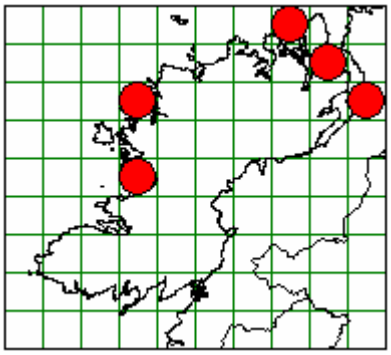
Leptosphaeria acuta (Moug. & Nestl.) P. Karst. Nettle Rash

Pointy black spots on dead nettle stems. Very common



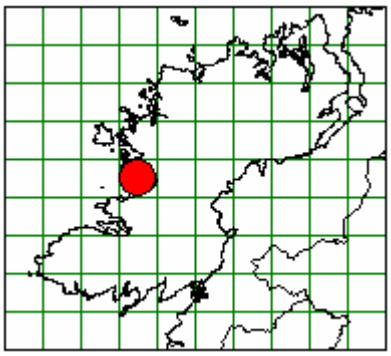
Peziza ammophila Durieu & Mont. Dune Cup

A cup fungus found in embryo dunes with a buried stem in the sand



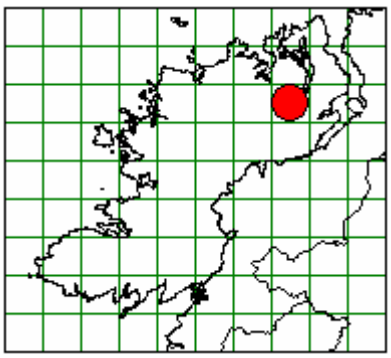
Peziza arvernensis Boud.

A large cup fungus



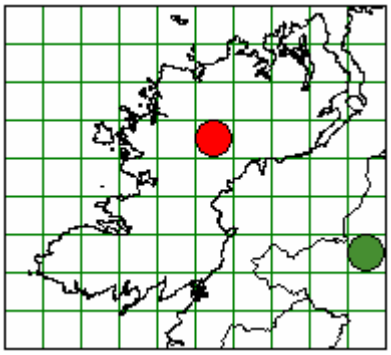
Peziza repanda Wahlenb. Palamino Cup

A large cup fungus often found on plaster, rotting paper etc



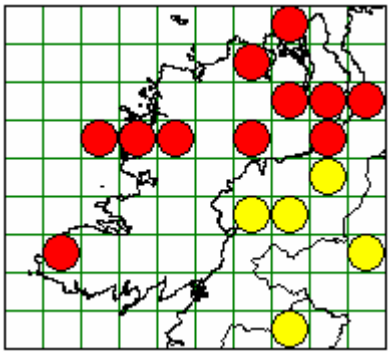
Rhopographus filicinus (Fr.) Nitschke ex Fuckel Bracken Map

A ubiquitous species on Bracken. Will be much more common as not systematically



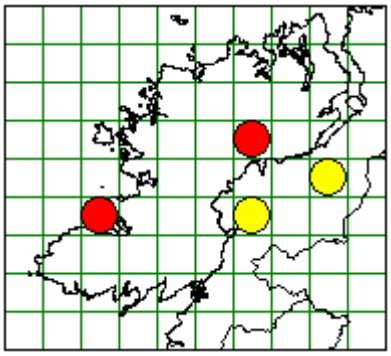
Rhytisma acerinum (Pers.) Fr. Sycamore Tarspot

Tar spot fungus found on Sycamore leaves



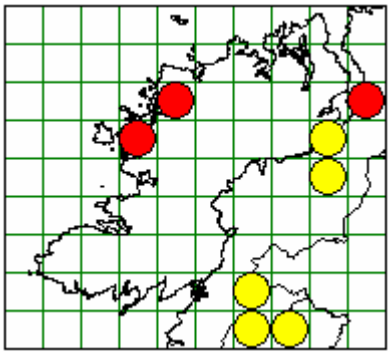
Rhytisma salicinum (Pers.) Fr.

Tar spot found on Salix leaves



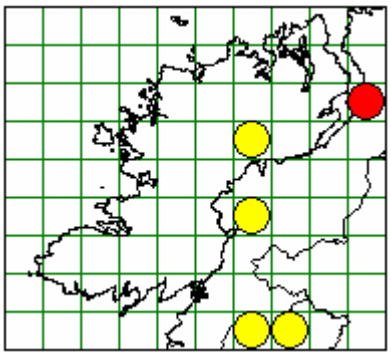
Taphrina alni (Berk. & Broome) Gjaerum Alder Tongue

The tongues found on Alder cupules



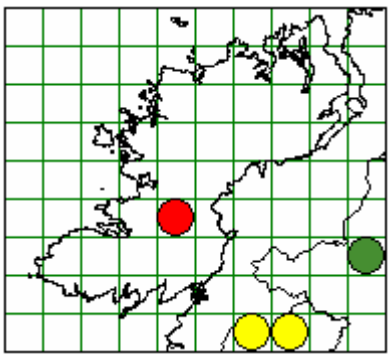
Trochila ilicina (Nees) Greenh. & Morgan-Jones Holly Speckle

Very common on Holly leaves



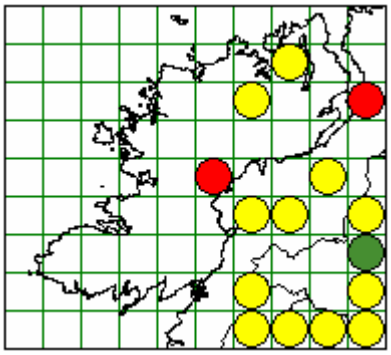
Xylaria carpophila (Pers.) Fr. Beechmast Candlesnuff

Very similar to the Candle Snuff Fungus but found on Beech mast



Xylaria hypoxylon (L.) Grev. Candlesnuff Fungus

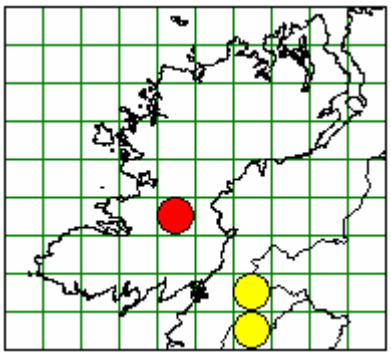
Very common on wood



Rusts and Smuts

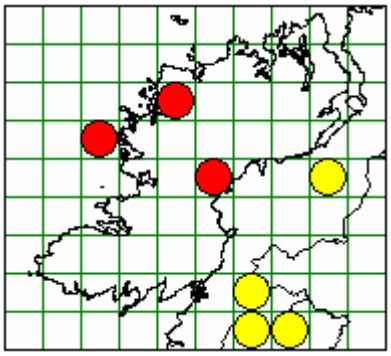
Melampsoridium betulinum (Pers.) Kleb. Birch Rust

A common rust on Birch leaves



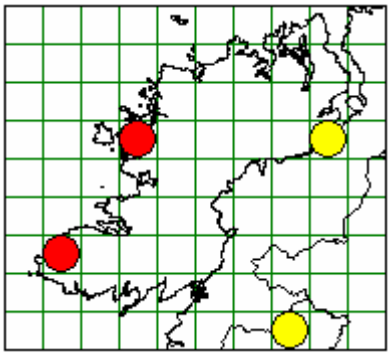
Phragmidium violaceum (Schultz) G. Winter Violet Bramble Rust

Very common rust on Bramble. Will be more common as not systematically looked for



Puccinia poarum E. Nielsen

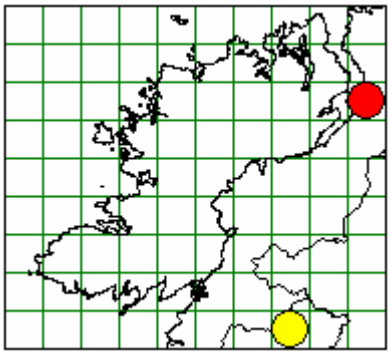
A common rust on Coltsfoot. Will be more common as not systematically looked for



Powdery Mildews

Microsphaera alphitoides Griffon & Maubl.

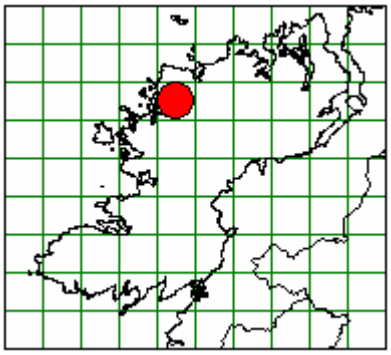
A powdery mildew on Oak leaves



Coelomycetes

Asteroma impressum Fuckel

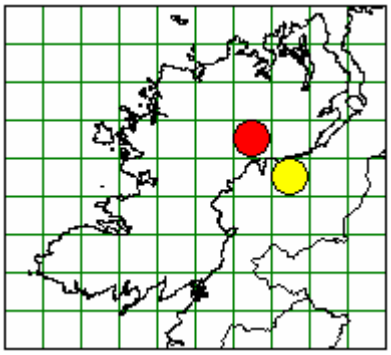
Black spots on Tussilago leaves where black pycnidia are emersed in a cottony hyphae



Myxomycetes (Slime Moulds)

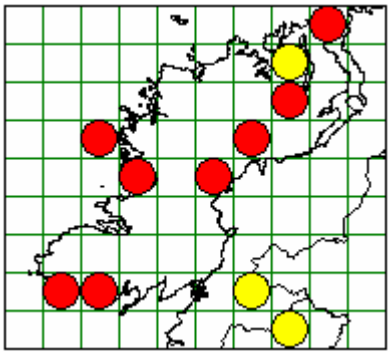
Fuligo septica (L.) F.H. Wigg.

A yellow slime mould



Mucilago crustacea Mich.

A slime mould in grass that looks like vomit. Normally lives in the soil digesting bacteria and moves up onto grass to fruit.



Appendix 3 –Biodiversity Species List for County Donegal - Fungi

As referenced earlier, this is the annotated and updated list of Fungi for County Donegal

Original Species	Current Name	Common Name	Comment
Agaricus arvensis	Agaricus arvensis	Horse Mushroom	
Agaricus augustus	Agaricus augustus	The Prince	New to List from FRDBI
Agaricus bernardii	Agaricus bernardii		New to List from FRDBI
Agaricus campestris	Agaricus campestris	Field Mushroom	
Agaricus macrocarpus	Agaricus macrocarpus		New to List from this survey
Agaricus silvaticus	Agaricus silvaticus	Blushing Wood Mushroom	
Agaricus urinascens	Agaricus urinascens	Macro Mushroom	New to List from this survey
Agaricus xanthodermus	Agaricus xanthodermus	Yellow Stainer	

Original Species	Current Name	Common Name	Comment
Agrocybe praecox	Agrocybe praecox	Spring Fieldcap	
Aleuria aurantia	Aleuria aurantia	Orange Peel Fungus	
Amanita citrina	Amanita citrina var. citrina	False Deathcap	
Amanita citrina var. alba	Amanita citrina var. alba	False Deathcap	
Amanita excelsa	Amanita excelsa var. excelsa	Grey Spotted Amanita	
Amanita fulva	Amanita fulva	Tawny Grisette	
Amanita muscaria	Amanita muscaria var. muscaria	Fly Agaric	Spelling mistake
Amanita muscaria var. muscaria	Amanita muscaria var. muscaria	Fly Agaric	
Amanita phalloides	Amanita phalloides	Deathcap	
Amanita prophyria	Amanita porphyria	Grey Veiled Amanita	Spelling mistake
Amanita rubescens	Amanita rubescens var. rubescens	Blusher	
Amanita rubescens var. rubescens	Amanita rubescens var. rubescens	Blusher	
Amanita vaginata	Amanita vaginata var. vaginata	Grisette	
Amanita vaginata var. vaginata	Amanita vaginata var. vaginata	Grisette	
Anisogramma virgultorum	Anisogramma virgultorum		
Arcyria denudata	Arcyria denudata		
Arcyria pomiformis	Arcyria pomiformis		
Armillaria gallica	Armillaria gallica	Bulbous Honey Fungus	
Armillaria mellea	Armillaria mellea	Honey Fungus	
Armillaria ostoyae	Armillaria ostoyae	Dark Honey Fungus	
Arrhenia retiruga	Arrhenia retiruga		
Arthopyrenia punctiformis	Arthopyrenia punctiformis		
Arthrorhaphis aeruginosa	Arthrorhaphis aeruginosa		
Arthrorhaphis grisea	Arthrorhaphis grisea		
Ascobolus carbonarius	Ascobolus carbonarius		New to List from this survey
Ascocoryne sarcoides	Ascocoryne sarcoides	Purple Jellydisc	
Ascodichaena rugosa	Ascodichaena rugosa		
Asteroma impressum	Asteroma impressum		New to List from this survey
Auricularia auricula-judae	Auricularia auricula-judae	Jelly Ear	
Badhamia lilacina var. lilacina	Badhamia lilacina var. lilacina		
Badhamia panicea	Badhamia panicea		
Basidiodendron radians	Basidiodendron radians		
Belonidium sulphureum	Belonidium sulphureum		
Biatoporopsis usnearum	Biatoropsis usnearum		Spelling mistake

Original Species	Current Name	Common Name	Comment
Bisporella citrina	Bisporella citrina	Lemon Disco	
Bjerkandera adusta	Bjerkandera adusta	Smoky Bracket	
Bjerkandera fumosa	Bjerkandera fumosa	Big Smoky Bracket	
Bolbitius titubans var. titubans	Bolbitius titubans var. titubans	Yellow Fieldcap	
Bolbitius vitellinus	Bolbitius titubans var. titubans	Yellow Fieldcap	
Boletus badius	Boletus badius	Bay Polypore	New to List from this survey
Boletus chrysenteron	Boletus chrysenteron	Red Cracking Bolete	
Boletus edulis	Boletus edulis	Cep	
Boletus erythropus	Boletus luridiformis var. luridiformis	Scarletina Bolete	
Boletus luridiformis	Boletus luridiformis var. luridiformis	Scarletina Bolete	
Boletus luridiformis var. luridiformis	Boletus luridiformis var. luridiformis	Scarletina Bolete	
Boletus subtomentosus	Boletus subtomentosus	Tiger's Eye	
Bovista nigrescens	Bovista nigrescens	Brown Puffball	New to List from this survey
Bovista plumbea	Bovista plumbea	Grey Puffball	New to List from this survey
Byssomerulius corium	Byssomerulius corium	Netted Crust	
Calocera cornea	Calocera cornea	Small Stagshorn	
Calocera cornea+C94	Calocera cornea	Small Stagshorn	No idea what C94 relates to
Calocera viscosa	Calocera viscosa	Yellow Stagshorn	
Calocybe carnea	Calocybe carnea	Pink Domecap	New to List from FRDBI
Calvatia caelatum	Lycoperdon utriforme	Mosaic Puffball	
Calvatia gigantia	Calvatia gigantea	Giant Puffball	Spelling mistake
Cantharellus aurora	Cantharellus aurora	Golden Chanterelle	
Cantharellus cibarius	Cantharellus cibarius	Chanterelle	
Cantharellus infundibuliformis	Cantharellus tubaeformis	Trumpet Chanterelle	
Cantharellus tubaeformis	Cantharellus tubaeformis	Trumpet Chanterelle	
Chamaemyces fracidus	Chamaemyces fracidus	Dewdrop Dapperling	New to List from this survey
Cheilymenia granulata	Cheilymenia granulata		New to List from this survey
Cheilymenia stercoria	Cheilymenia stercorea		Spelling mistake
Chlorociboria aeruginascens	Chlorociboria aeruginascens	Green Elfcup	
Clavaria acuta	Clavaria acuta	Pointed Club	
Clavaria fragilis	Clavaria fragilis	White Spindles	
Clavaria fumosa	Clavaria fumosa	Smoky Spindles	
Clavaria straminea	Clavaria straminea	Straw Club	New to List from this survey
Clavaria zollingeri	Clavaria zollingeri	Violet Coral	New to List from this survey

Original Species	Current Name	Common Name	Comment
Claviceps purpurea	Claviceps purpurea var. purpurea	Ergot	
Clavulina	Clavulina		
Clavulina cinerea	Clavulina cinerea f. cinerea	Grey Coral	
Clavulina cinerea f. cinerea	Clavulina cinerea f. cinerea	Grey Coral	
Clavulina coralloides	Clavulina coralloides	Crested Coral	
Clavulina cristata	Clavulina coralloides	Crested Coral	
Clavulina rugosa	Clavulina rugosa	Wrinkled Club	
Clavulinopsis corniculata	Clavulinopsis corniculata	Meadow Coral	
Clavulinopsis fusiformis	Clavulinopsis fusiformis	Golden Spindles	New to List from this survey
Clavulinopsis helvola	Clavulinopsis helvola	Yellow Club	
Clavulinopsis laeticolor	Clavulinopsis laeticolor	Handsome Club	New to List from this survey
Clavulinopsis luteoalba	Clavulinopsis luteoalba	Apricot Club	New to List from this survey
Clavulinopsis umbrinella	Clavulinopsis umbrinella	Beige Coral	New to List from this survey
Clitocybe dealbata	Clitocybe dealbata	Ivory Funnel	New to List from this survey
Clitocybe fragrans	Clitocybe fragrans	Fragrant Funnel	
Clitocybe nebularis	Clitocybe nebularis	Clouded Funnel	
Clitocybe nebularis	Clitocybe nebularis	Clouded Funnel	
Clitocybe suaveolens	Clitocybe fragrans	Fragrant Funnel	
Clitocybe vibecina	Clitocybe vibecina	Mealy Funnel	New to List from this survey
Clitopilus prunulus	Clitopilus prunulus	The Miller	
Collybia aquosa	Collybia aquosa		
Collybia butyracea var. butyracea	Collybia butyracea var. butyracea	Butter Cap	
Collybia confluens	Collybia confluens	Clustered Toughshank	
Collybia dryophila	Collybia dryophila	Russet Toughshank	
Collybia peronata	Collybia peronata	Wood Woollyfoot	
Coltricia perennis	Coltricia perennis	Tiger's Eye	
Conocybe lactea	Conocybe apala	Milky Conecap	
Conocybe tenera	Conocybe pulchella		
Coprinellus micaceus	Coprinellus micaceus	Glistening Inkcap	
Coprinus ammophilae	Coprinopsis ammophilae	Dune Inkcap	New to List from this survey
Coprinus atramentarius	Coprinopsis atramentaria	Common Inkcap	
Coprinus comatus	Coprinus comatus	Shaggy Inkcap	
Coprinus disseminatus	Coprinellus disseminatus	Fairy Inkcap	
Coprinus micaceus	Coprinellus truncorum	Glistening Inkcap	
Coprinus miser	Parasola misera		
Coprinus niveus	Coprinopsis niveus	Snowy Inkcap	New to List from this survey
Coprinus plicatilis	Parasola plicatilis	Pleated Inkcap	
Coprobia granulata	Coprobia granulata		

Original Species	Current Name	Common Name	Comment
Cordyceps militaris	Cordyceps militaris	Scarlet Caterpillarclub	
Coriolus versicolor	Trametes versicolor	Turkeytail	
Cortinarius anomalus	Cortinarius anomalus	Variable Webcap	New to List from this survey
Cortinarius bolaris	Cortinarius bolaris	Dappled Webcap	
Cortinarius cinnabarinus	Cortinarius cinnabarinus		
Cortinarius cinnamomeus	Cortinarius cinnamomeus	Cinnamon Webcap	
Cortinarius croceus	Cortinarius croceus		New to List from FRDBI
Cortinarius fagetorum	Cortinarius fagetorum		
Cortinarius flexipes var. flexipes	Cortinarius flexipes var. flexipes		New to List from FRDBI
Cortinarius hemitrichus	Cortinarius hemitrichus	Frosty Webcap	
Cortinarius livido-ochraceous	Cortinarius livido-ochraceus	Wrinkled Webcap	Spelling mistake
Cortinarius nemorensis	Cortinarius variicolor		
Craterellus cornucopioides	Craterellus cornucopioides	Horn of Plenty	
Crepidotus applanatus var. applanatus	Crepidotus applanatus var. applanatus	Flat Oysterling	
Crepidotus mollis	Crepidotus mollis	Peeling Oysterling	
Crepidotus pubescens	Crepidotus luteolus	Yellowing Oysterling	
Crepidotus variabilis	Crepidotus variabilis	Variable Oysterling	
Cribraria argillacea	Cribraria argillacea		
Cribraria aurantiaca	Cribraria aurantiaca		
Cribraria cancellata var. cancellata	Cribraria cancellata var. cancellata		
Cribraria rufa	Cribraria rufa		
Cylindrobasidium evolvens	Cylindrobasidium laeve		
Cystoderma amianthinum	Cystoderma amianthinum	Earthy Powdercap	
Dacrymyces stillatus	Dacrymyces stillatus	Common Jellyspot	
Dasyscyphus virgineus var. selecti	Dasyscyphus virgineus var. selecti		
Dermoloma cuneifolium	Dermoloma cuneifolium	Crazed Cap	
Dermoloma cuneifolium var. cuneifolium	Dermoloma cuneifolium var. cuneifolium	Crazed Cap	New to List from this survey
Diatrype disciformis	Diatrype disciformis	Beech Barkspot	
Echinostelium minutum	Echinostelium minutum		
Entoloma asprellum	Entoloma asprellum		New to List from this survey
Entoloma atrocoeruleum	Entoloma atrocoeruleum		
Entoloma bloxamii	Entoloma bloxamii	Big Blue Pinkgill	New to List from this survey
Entoloma caesiocinctum	Entoloma caesiocinctum		

Original Species	Current Name	Common Name	Comment
Entoloma chalybaeum var. chalybaeum	Entoloma chalybaeum var. chalybaeum	Indigo Pinkgill	New to List from this survey
Entoloma conferendum var. conferendum	Entoloma conferendum var. conferendum	Star Pinkgill	
Entoloma corvinum	Entoloma corvinum		
Entoloma exile	Entoloma exile		
Entoloma griseocyaneum	Entoloma griseocyaneum	Felted Pinkgill	
Entoloma hebes	Entoloma hebes	Pimple Pinkgill	
Entoloma hispidulum	Entoloma hispidulum		
Entoloma incanum	Entoloma incanum	Mousepee Pinkgill	
Entoloma infula var. infula	Entoloma infula var. infula		New to List from FRDBI
Entoloma inutile	Entoloma inutile		
Entoloma jubatum	Entoloma jubatum	Sepia Pinkgill	New to List from this survey
Entoloma longistriatum var. sarcitulum	Entoloma longistriatum var. sarcitulum		
Entoloma occultopigmentatum	Entoloma occultopigmentatum		New to List from FRDBI
Entoloma papillatum	Entoloma papillatum	Papillate Pinkgill	New to List from this survey
Entoloma pascuum	Entoloma conferendum var. conferendum	Star Pinkgill	
Entoloma poliopus var. parvisporigerum	Entoloma poliopus var. parvisporigerum		New to List from FRDBI
Entoloma poliopus var. poliopus	Entoloma poliopus var. poliopus		New to List from this survey
Entoloma porphyrophaeum	Entoloma porphyrophaeum	Lilac Pinkgill	
Entoloma prunuloides	Entoloma prunuloides	Mealy Pinkgill	New to List from FRDBI
Entoloma sericellum	Entoloma sericellum	Cream Pinkgill	
Entoloma sericeoides	Entoloma sericeoides		New to List from FRDBI
Entoloma sericeum var. sericeum	Entoloma sericeum var. sericeum	Silky Pinkgill	
Entoloma serrulatum	Entoloma serrulatum	Blue Edge Pinkgill	
Entoloma turbidum	Entoloma turbidum		New to List from FRDBI
Entoloma turci	Entoloma turci		
Entoloma undatum	Entoloma undatum		
Entomophthora muscae	Entomophthora muscae		
Eutypa ulicis	Eutypa ulicis		
Exidia glandulosa	Exidia plana	Witches' Butter	
Exidia nucleata	Exidia nucleata	Crystal Brain	
Exidia recisa	Exidia recisa		
Exidia thuretiana	Exidia thuretiana	White Brain	
Flammulina velutipes var. velutipes	Flammulina velutipes var. velutipes	Velvet Shank	New to List from FRDBI
Fomes fomentarius	Fomes fomentarius	Hoof Fungus	

Original Species	Current Name	Common Name	Comment
Fuligo muscorum	Fuligo muscorum		
Fuligo septica	Fuligo septica var. septica		
Fuligo septica var. flava	Fuligo septica var. flava		
Galerina clavata	Galerina clavata		
Galerina marginata	Galerina marginata	Funeral Bell	
Galerina paludosa	Galerina paludosa	Bog Bell	
Galerina vittiformis	Galerina vittiformis	Hairy Leg Bell	New to List from this survey
Ganoderma applanatum	Ganoderma applanatum	Artist's Bracket	
Ganoderma australe	Ganoderma australe	Southern Bracket	
Geastrum triplex	Geastrum triplex	Collared Earthstar	
Geoglossum atropurpureum	Geoglossum atropurpureum	Dark-purple Earthtongue	New to List from this survey
Geoglossum cookeanum	Geoglossum cookeanum		
Geoglossum fallax	Geoglossum fallax		New to List from FRDBI
Geoglossum glutinosum	Geoglossum glutinosum		
Gloeophylum sepiarium	Gloeophyllum sepiarium	Conifer Mazegill	Spelling mistake
Gloniella adianti	Gloniella adianti		New to List from this survey
Gymnopilus junonius	Gymnopilus junonius	Spectacular Rustgill	
Handkea excipuliformis	Lycoperdon excipuliforme	Pestle Puffball	
Hebeloma crustuliniforme	Hebeloma crustuliniforme	Poisonpie	
Hebeloma laterinum	Hebeloma sinapizans	Bitter Poisonpie	Highly doubtful record as very southern species often confused with H.sinapizans
Hebeloma leucosarx	Hebeloma leucosarx		
Hebeloma mesophaeum	Hebeloma mesophaeum var. mesophaeum	Veiled Poisonpie	
Hebeloma radicosum	Hebeloma radicosum	Rooting Poisonpie	New to List from this survey
Hebeloma vaccinium	Hebeloma vaccinium		New to List from this survey
Helvella corium	Helvella corium		
Helvella crispa	Pseudocraterellus undulatus	Sinuous Chanterelle	
Helvella elastica	Helvella elastica	Elastic Saddle	
Helvella lacunosa	Helvella lacunosa	Elfin Saddle	
Helvella micropus	Helvella macropus	Felt Saddle	Spelling mistake
Heterobasidion annosum	Heterobasidion annosum	Root Rot	
Heterosphaeria patella	Heterosphaeria patella		
Hohenbuehelia geogenia	Hohenbuehelia tremula		
Hydnellum concrescens	Hydnellum concrescens	Zoned Tooth	
Hydnum repandum	Hydnum repandum	Wood Hedgehog	
Hydnum repandum	Hydnum repandum	Wood Hedgehog	
Hydnum repandum var.	Hydnum rufescens	Wood Hedgehog	

Original Species	Current Name	Common Name	Comment
rufescens			
Hydnum rufescens	Hydnum repandum	Wood Hedgehog	
Hygrocybe aurantiosplendens	Hygrocybe aurantiosplendens	Persistent Waxcap	New to List from this survey
Hygrocybe calciphila	Hygrocybe calciphila		New to List from this survey
Hygrocybe calyptriformis	Hygrocybe calyptriformis	Pink Waxcap	New to List from this survey
Hygrocybe calyptriformis var. calyptriformis	Hygrocybe calyptriformis var. calyptriformis	Pink Waxcap	
Hygrocybe cantharellus	Hygrocybe cantharellus	Goblet Waxcap	
Hygrocybe ceracea	Hygrocybe ceracea	Butter Waxcap	
Hygrocybe chlorophana	Hygrocybe chlorophana	Golden Waxcap	
Hygrocybe citrinovirens	Hygrocybe citrinovirens	Citrine Waxcap	
Hygrocybe coccinea	Hygrocybe coccinea	Scarlet Waxcap	
Hygrocybe colemanniana	Hygrocybe colemanniana	Toasted Waxcap	
Hygrocybe conica	Hygrocybe conica var. conica	Blackening Waxcap	
Hygrocybe conica	Hygrocybe conica var. conica	Blackening Waxcap	
Hygrocybe conicoides	Hygrocybe conica var. conicoides	Dune Waxcap	
Hygrocybe flavipes	Hygrocybe flavipes	Yellow Foot Waxcap	New to List from this survey
Hygrocybe fornicata var. fornicata	Hygrocybe fornicata	Earthy Waxcap	
Hygrocybe glutinipes var. glutinipes	Hygrocybe glutinipes var. glutinipes	Glutinous Waxcap	New to List from this survey
Hygrocybe helobia	Hygrocybe helobia		
Hygrocybe insipida	Hygrocybe insipida	Spangle Waxcap	
Hygrocybe intermedia	Hygrocybe intermedia	Fibrous Waxcap	
Hygrocybe irrigata	Hygrocybe irrigata	Slimy Waxcap	
Hygrocybe laeta var. laeta	Hygrocybe laeta var. laeta	Heath Waxcap	
Hygrocybe miniata	Hygrocybe miniata	Vermilion Waxcap	
Hygrocybe mucronella	Hygrocybe mucronella	Bitter Waxcap	New to List from this survey
Hygrocybe nigrescens	Hygrocybe conica var. conica	Blackening Waxcap	
Hygrocybe nitrata	Hygrocybe nitrata	Nitrous Waxcap	New to List from this survey
Hygrocybe nivea	Hygrocybe virginea var. virginea	Snowy Waxcap	
Hygrocybe persistens var. persistens	Hygrocybe persistens var. persistens	Persistent Waxcap	
Hygrocybe pratensis	Hygrocybe pratensis var. pratensis	Meadow Waxcap	
Hygrocybe pratensis var pallida	Hygrocybe pratensis var. pallida	Pale Waxcap	
Hygrocybe pratensis var. pratensis	Hygrocybe pratensis var. pratensis	Meadow Waxcap	

Original Species	Current Name	Common Name	Comment
Hygrocybe psittacina	Hygrocybe psittacina var. psittacina	Parrot Waxcap	
Hygrocybe punicea	Hygrocybe punicea	Crimson Waxcap	
Hygrocybe quieta	Hygrocybe quieta	Oily Waxcap	New to List from this survey
Hygrocybe reidii	Hygrocybe reidii	Honey Waxcap	
Hygrocybe russocoriacea	Hygrocybe russocoriacea	Cedarwood Waxcap	New to List from FRDBI
Hygrocybe splendidissima	Hygrocybe splendidissima	Splendid Waxcap	New to List from this survey
Hygrocybe unguinosum	Hygrocybe irrigata	Slimy Waxcap	
Hygrocybe virginea	Hygrocybe virginea var. virginea	Snowy Waxcap	
Hygrocybe virginea var. fuscescens	Hygrocybe virginea var. fuscescens	Snowy Waxcap	
Hygrocybe virginea var. ochraceopallida	Hygrocybe virginea var. ochraceopallida	Snowy Waxcap	
Hygrocybe virginea var. virginea	Hygrocybe virginea var. virginea	Snowy Waxcap	
Hygrophoropsis aurantiaca	Hygrophoropsis aurantiaca	False Chanterelle	
Hygrophorus hypothejus	Hygrophorus hypothejus	Herald of Winter	
Hygrophorus nemoreus	Hygrophorus nemoreus	Oak Woodwax	
Hyphoderma praetermissum	Hyphoderma praetermissum		
Hyphodontia alutaria	Hyphodontia alutaria		
Hyphodontia sambuci	Hyphodontia sambuci	Elder Whitewash	
Hypholoma fasciculare	Hypholoma fasciculare var. fasciculare	Sulphur Tuft	
Hypholoma fasciculare var. fasciculare	Hypholoma fasciculare var. fasciculare	Sulphur Tuft	
Hypholoma lateritium	Hypholoma lateritium	Brick Tuft	
Hypholoma radicosum	Hypholoma radicosum	Rooting Brownie	
Hypholoma udum	Hypholoma udum	Peat Brownie	
Hypocrea gelatinosa	Hypocrea gelatinosa		
Hypomyces chrysospermus	Hypomyces chrysospermus	Bolete Mould	
Hypoxylon fragiforme	Hypoxylon fragiforme	Beech Woodwart	
Hypoxylon fuscum	Hypoxylon fuscum	Hazel Woodwart	New to List from this survey
Hypoxylon multiforme	Hypoxylon multiforme	Birch Woodwart	
Hypoxylon rubiginosum	Hypoxylon rubiginosum	Rusty Woodwart	
Inocybe asterospora	Inocybe asterospora	Star Fibrecap	
Inocybe fraudans	Inocybe fraudans		New to List from FRDBI
Inocybe geophylla var. geophylla	Inocybe geophylla var. geophylla	White Fibrecap	
Inocybe geophylla var. lilacina	Inocybe geophylla var. lilacina	Lilac Fibrecap	
Inocybe lacera	Inocybe lacera var. lacera	Torn Fibrecap	

Original Species	Current Name	Common Name	Comment
Inocybe lanuginosa	Inocybe lanuginosa	Woolly Fibrecap	New to List from this survey
Inocybe posterula	Inocybe posterula		
Inocybe rimosa	Inocybe rimosa	Split Fibrecap	New to List from this survey
Inocybe subcarpta	Inocybe subcarpta		
Inonotus radiatus	Inonotus radiatus	Alder Bracket	
Kabatia periclymeni	Kabatia periclymeni		
Kalaallia reactiva	Kalaallia reactiva		
Kretzschmaria deusta	Kretzschmaria deusta	Brittle Cinder	
Kuehneromyces mutabilis	Kuehneromyces mutabilis	Sheathed Woodtuft	
Laccaria amethystina	Laccaria amethystina	Amethyst Deceiver	
Laccaria laccata	Laccaria laccata	Deceiver	
Laccaria proxima	Laccaria proxima	Scurfy Deceiver	
Lachnella alboviolascens	Lachnella alboviolascens		
Lachnum apalum	Lachnum apalum	Rush Disco	
Lachnum fuscescens var. fagicola	Lachnum fuscescens var. fagicola		
Lachnum niveum	Lachnum niveum		
Lachnum virgineum	Lachnum virgineum	Snowy Disco	
Lacrymaria lacrymabunda	Lacrymaria lacrymabunda	Weeping Widow	
Lacrymaria velutina	Lacrymaria lacrymabunda	Weeping Widow	
Lactarius aurantiacus	Lactarius aurantiacus	Orange Milkcap	
Lactarius blennius	Lactarius blennius	Beech Milkcap	
Lactarius brittanicus	Lactarius fulvissimus	Tawny Milkcap	
Lactarius camphoratus	Lactarius camphoratus	Curry Milkcap	
Lactarius chrysorrheus	Lactarius chrysorrheus	Yellowdrop Milkcap	
Lactarius citriolens	Lactarius citriolens		
Lactarius cyathuliformis	Lactarius cyathuliformis		
Lactarius deterrimus	Lactarius deterrimus	False Saffron Milkcap	
Lactarius fulvissimus	Lactarius fulvissimus	Tawny Milkcap	
Lactarius glyciosmus	Lactarius glyciosmus	Coconut Milkcap	
Lactarius lacunarum	Lactarius lacunarum		New to List from this survey
Lactarius piperatus	Lactarius piperatus	Peppery Milkcap	
Lactarius piperatus	Lactarius piperatus	Peppery Milkcap	
Lactarius pubescens	Lactarius pubescens	Bearded Milkcap	
Lactarius quietus	Lactarius quietus	Oakbug Milkcap	
Lactarius rufus	Lactarius rufus	Rufous Milkcap	
Lactarius subdulcis	Lactarius subdulcis	Mild Milkcap	
Lactarius torminosus	Lactarius torminosus	Woolly Milkcap	
Lactarius vellereus	Lactarius vellereus	Fleecy Milkcap	

Original Species	Current Name	Common Name	Comment
Lactarius vietus	Lactarius vietus	Grey Milkcap	New to List from this survey
Lactarius violascens	Lactarius violascens		
Leccinum cyaneobasileucum	Leccinum cyaneobasileucum		New to List from this survey
Leccinum holopus	Leccinum holopus	Ghost Bolete	
Leccinum scabrum	Leccinum scabrum	Brown Birch Bolete	
Leotia lubrica	Leotia lubrica	Jellybaby	
Lepiota rhacodes	Chlorophyllum rhacodes	Shaggy Parasol	
Lepista flaccida	Lepista flaccida	Tawny Funnel	
Lepista nuda	Lepista nuda	Wood Blewit	
Lepista panaeola	Lepista panaeola		New to List from this survey
Lepista sordida	Lepista sordida		New to List from FRDBI
Leptoglossum retirugum	Arrhenia retiruga		
Leptosphaeria acuta	Leptosphaeria acuta	Nettle Rash	
Licea biforis var. biforis	Licea biforis		
Licea kleistobolus	Licea kleistobolus		
Licea marginata	Licea marginata		
Licea minima	Licea minima		
Licea parasitica	Licea parasitica		
Lichenomphalia alpina	Lichenomphalia alpina		New to List from this survey
Lichenomphalia umbellifera	Lichenomphalia umbellifera	Heath Navel	
Lophiostoma ulicis	Lophiostoma ulicis		
Lycogala epidendrum	Lycogala epidendrum		
Lycogala terrestre	Lycogala terrestre		
Lycoperdon lividum	Lycoperdon lividum	Grassland Puffball	New to List from FRDBI
Lycoperdon nigrescens	Lycoperdon nigrescens	Dusky Puffball	
Lycoperdon perlatum	Lycoperdon perlatum	Common Puffball	
Lycoperdon pratense	Lycoperdon pratense	Meadow Puffball	New to List from FRDBI
Lycoperdon pyriforme	Lycoperdon pyriforme	Stump Puffball	
Lycoperdon utriforme	Lycoperdon utriforme	Mosaic Puffball	New to List from this survey
Lyophyllum connatum	Lyophyllum connatum	White Domecap	
Macrocystidia cucumis	Macrocystidia cucumis	Cucumber Cap	New to List from this survey
Macrolepiota procera	Macrolepiota procera var. procera	Parasol	
Macrolepiota rhacodes	Chlorophyllum rhacodes	Shaggy Parasol	
Maramius hudsonii	Marasmius hudsonii	Holly Parachute	Spelling mistake
Marasmiellus ramealis	Marasmiellus ramealis	Twig Parachute	
Marasmius bulliardii	Marasmius bulliardii		
Marasmius epiphylloides	Marasmius epiphylloides		
Marasmius hudsonii	Marasmius hudsonii	Holly Parachute	

Original Species	Current Name	Common Name	Comment
Marasmius oreades	Marasmius oreades	Fairy Ring Champignon	New to List from this survey
Marasmius ramealis	Marasmiellus ramealis	Twig Parachute	
Marasmius rotula	Marasmius rotula	Collared Parachute	
Marasmius setosus	Marasmius setosus		New to List from this survey
Marasmius wynnei	Marasmius wynnei	Pearly Parachute	
Marchandiobasidium aurantiacum	Marchandiomyces aurantiacus		Mixed name
Marchandiomyces corallinus	Marchandiomyces corallinus		
Melampsora lini var. liniperda	Melampsora lini var. liniperda		
Melampsoria hypericorum	Melampsora hypericorum		Spelling mistake
Melampsoridium betularum	Melampsoridium betulinum	Birch Rust	Spelling mistake
Melampsoridium betulinum	Melampsoridium betulinum	Birch Rust	
Melampsoridium hiratsukanum	Melampsoridium betulinum	Birch Rust	
Melanoleuca cinereifolia	Melanoleuca cinereifolia		New to List from this survey
Melanoleuca friesii	Melanoleuca friesii		New to List from this survey
Melanoleuca melaleuca	Melanoleuca polioleuca	Common Cavalier	
Melanoleuca polioleuca	Melanoleuca polioleuca	Common Cavalier	
Melanoleuca strictipes	Melanoleuca strictipes		
Meripilus giganteus	Meripilus giganteus	Giant Polypore	
Meruliopsis corium	Byssomerulius corium	Netted Crust	
Microglossum olivaceum	Microglossum olivaceum	Olive Earthtongue	New to List from this survey
Microsphaera alphitoides	Erysiphe alphitoides		
Milesina scolopendrii	Milesina scolopendrii		
Mitrula paludosa	Mitrula paludosa	Bog Beacon	
Miyagia pseudosphaeria	Miyagia pseudosphaeria		
Mollisia fallax	Mollisia fallax		
Mucilago crustacea	Mucilago crustacea var. crustacea		
Mucilago crustacea var. crustacea	Mucilago crustacea var. crustacea		
Mutinus caninus	Mutinus caninus	Dog Stinkhorn	
Mycena aetites	Mycena aetites	Drab Bonnet	
Mycena archangelicus	Mycena arcangeliana	Angel's Bonnet	Spelling mistake
Mycena epipterygia	Mycena epipterygia	Yellowleg Bonnet	
Mycena flavoalba	Mycena flavoalba	Ivory Bonnet	New to List from FRDBI
Mycena galericulata	Mycena galericulata	Common Bonnet	

Original Species	Current Name	Common Name	Comment
Mycena galopus var. candida	Mycena galopus var. candida	White Milking Bonnet	
Mycena leptocephala	Mycena leptocephala	Nitrous Bonnet	
Mycena luteoalba	Mycena luteoalba	Ivory Bonnet	
Mycena meliigena	Mycena meliigena		
Mycena pura	Mycena pura	Lilac Bonnet	
Mycena pura	Mycena pura	Lilac Bonnet	
Naucoria escharioides	Naucoria escharioides	Ochre Aldercap	
Nectria cinnabarina	Nectria cinnabarina	Coral Spot	
Neobulgaria pura var. foliacea	Neobulgaria pura var. foliacea		New to List from FRDBI
Omphalina ericetorum	Lichenomphalia umbellifera	Heath Navel	
Omphalina pyxidata	Omphalina pyxidata		
Omphalina sphagnicola	Arrhenia sphagnicola		
Omphalina subhepatica	Omphalina subhepatica		New to List from this survey
Otidea onotica	Otidea onotica	Hare's Ear	
Oudemansiella mucida	Oudemansiella mucida	Porcelain Fungus	
Panaeolina foenisecii	Panaeolina foenisecii	Brown Mottlegill	New to List from this survey
Panaeolus acuminatus	Panaeolus acuminatus	Dewdrop Mottlegill	
Panaeolus ater	Panaeolus fimicola	Turf Mottlegill	
Panaeolus fimicola	Panaeolus fimicola	Turf Mottlegill	
Panaeolus papilionaceus	Panaeolus papilionaceus var. papilionaceus	Petticoat Mottlegill	
Panaeolus papilionaceus var. papilionaceus	Panaeolus papilionaceus var. papilionaceus	Petticoat Mottlegill	
Panaeolus semiovatus var. semiovatus	Panaeolus semiovatus var. semiovatus	Egghead Mottlegill	
Panaeolus sphinctrinus	Panaeolus papilionaceus var. papilionaceus	Petticoat Mottlegill	
Panaeolus subbalteatus	Panaeolus cinctulus	Banded Mottlegill	
Panellus stipticus	Panellus stipticus	Bitter Oysterling	
Paradiacheopsis solitaria	Paradiacheopsis solitaria		
Parasola conopilus	Parasola conopilus		New to List from FRDBI
Parasola plicatilis	Parasola plicatilis	Pleated Inkcap	
Paxillus involutus	Paxillus involutus	Brown Rollrim	
Peniophora ilex			No such species
Peniophora incarnata	Peniophora incarnata	Rosy Crust	
Peniophorella praetermissa	Peniophorella praetermissa		New to List from FRDBI
Perichaena chrysosperma	Perichaena chrysosperma		
Peziza ammophila	Peziza ammophila	Dune Cup	New to List from this survey
Peziza arvernensis	Peziza arvernensis		New to List from this survey

Original Species	Current Name	Common Name	Comment
Peziza badia	Peziza badia	Bay Cup	
Peziza repanda	Peziza repanda	Palamino Cup	New to List from this survey
Peziza succosa	Peziza succosa	Yellowing Cup	
Phaeolepiota aurea	Phaeolepiota aurea		New to List from S.Dunlop
Phaeolus schweinitzii	Phaeolus schweinitzii	Dyer's Mazegill	
Phallus impudicus var. impudicus	Phallus impudicus	Stinkhorn	
Phellodon melaleucus	Phellodon melaleucus	Grey Tooth	
Phlebia tremellosa	Phlebia tremellosa	Jelly Rot	
Pholiota conissans	Pholiota conissans		New to List from this survey
Pholiota flammans	Pholiota flammans	Flaming Scalycap	
Pholiota squarrosa	Pholiota squarrosa	Shaggy Scalycap	
Phragmidium rosae-pimpinellifoliae	Phragmidium rosae-pimpinellifoliae		
Phragmidium violaceum	Phragmidium violaceum	Violet Bramble Rust	
Phragmidium violaceum	Phragmidium violaceum	Violet Bramble Rust	
Physarum album	Physarum album		New to List from FRDBI
Physarum nutans	Physarum nutans		
Physarum pusillum	Physarum pusillum		
Phytophthora infestans	Phytophthora infestans	Potato Blight	
Piptoporus betulinus	Piptoporus betulinus	Birch Polypore	
Pleurotus dryinus	Pleurotus dryinus	Veiled Oyster	
Pleurotus pulmonarius	Pleurotus ostreatus	Oyster Mushroom	
Pluteus cervinus	Pluteus cervinus	Deer Shield	
Pluteus griseoluridus	Pluteus griseoluridus		New to List from this survey
Polyporus badius	Polyporus durus	Bay Polypore	
Polyporus brumalis	Polyporus brumalis	Winter Polypore	New to List from FRDBI
Polyporus durus	Polyporus durus	Bay Polypore	
Polyporus leptocephalus	Polyporus leptocephalus	Blackfoot Polypore	
Polyporus squamosus	Polyporus squamosus	Dryad's Saddle	
Polyporus varians	Polyporus varius	Blackfoot Polypore	Spelling mistake
Postia caesia	Postia caesia	Conifer Blueing Bracket	
Postia subcaesia	Postia subcaesia	Blueing Bracket	
Psathyrella ammophila	Psathyrella ammophila	Dune Brittlestem	New to List from this survey
Psathyrella candolleana	Psathyrella candolleana	Pale Brittlestem	
Psathyrella conopilus	Psathyrella conopilus	Conical Brittlestem	
Psathyrella corrugis	Psathyrella corrugis	Red Edge	

Original Species	Current Name	Common Name	Comment
		Brittlestem	
Psathyrella potteri	Psathyrella potteri		New to List from FRDBI
Psathyrella prona f. cana	Psathyrella prona f. cana		
Pseudoclitocybe cyathiformis	Pseudoclitocybe cyathiformis	Goblet	
Pseudocraterellus	Pseudocraterellus		
Pseudocraterellus undulatus	Pseudocraterellus undulatus	Sinuous Chanterelle	
Pseudohydnum gelatinosum	Pseudohydnum gelatinosum	Jelly Tooth	
Pseudoplectania sphagnophila	Pseudoplectania sphagnophila		
Psilocybe coprophila	Psilocybe coprophila		
Psilocybe merdaria	Psilocybe merdaria		
Psilocybe semilanceata	Psilocybe semilanceata	Liberty Cap	
Puccinia chaerophylli	Puccinia chaerophylli		
Puccinia circaeae	Puccinia circaeae		
Puccinia graminis	Puccinia graminis subsp. graminis		
Puccinia lagenophorae	Puccinia lagenophorae		
Puccinia lapsanae	Puccinia lapsanae		
Puccinia obscura	Puccinia obscura		
Puccinia poarum	Puccinia poarum		
Puccinia sessilis	Puccinia sessilis		
Puccinia umbilici	Puccinia umbilici		
Puccinia urticata var. urticae-paniceae	Puccinia urticata var. urticae-paniceae		
Puccinia urticata var. urticata	Puccinia urticata var. urticata	Nettle Clustercup Rust	New to List from FRDBI
Puccinia violae	Puccinia violae		
Pyrenidium actinellum	Pyrenidium actinellum		
Ramaria stricta	Ramaria stricta	Upright Coral	New to List from FRDBI
Ramularia montana	Ramularia montana		
Ramularia succisae	Ramularia succisae		
Resinomycena saccharifera	Resinomycena saccharifera		
Reticularia lycoperdon	Reticularia lycoperdon		
Rhodocybe gemina	Rhodocybe gemina		
Rhopographus filicinus	Rhopographus filicinus	Bracken Map	New to List from this survey
Rhynchosporium orthosporum	Rhynchosporium orthosporum		
Rhytisma acerinum	Rhytisma acerinum	Sycamore Tarspot	
Rhytisma salicinum	Rhytisma salicinum		
Rickenella fibula	Rickenella fibula	Orange Mosscap	

Original Species	Current Name	Common Name	Comment
Rickenella swartzii	Rickenella swartzii	Collared Mosscap	New to List from this survey
Russula atropurpurea	Russula atropurpurea	Purple Brittlegill	
Russula aurea	Russula aurea	Gilded Brittlegill	
Russula betularum	Russula betularum	Birch Brittlegill	New to List from this survey
Russula chloroides	Russula chloroides	Milk White Brittlegill	
Russula cyanoxantha	Russula cyanoxantha	Charcoal Burner	
Russula delica	Russula delica	Milk White Brittlegill	
Russula delica	Russula delica	Milk White Brittlegill	
Russula emetica	Russula silvestris	Sickener	
Russula exalbicans	Russula exalbicans	Bleached Brittlegill	New to List from this survey
Russula fellea	Russula fellea	Geranium Brittlegill	
Russula fragilis var. fragilis	Russula fragilis var. fragilis	Fragile Brittlegill	
Russula gracillima	Russula gracillima	Slender Brittlegill	
Russula ionochlora	Russula ionochlora	Oilslick Brittlegill	
Russula mairei	Russula nobilis	Beechwood Sickener	
Russula nigricans	Russula nigricans	Blackening Brittlegill	
Russula nobilis	Russula nobilis	Beechwood Sickener	
Russula ochroleuca	Russula ochroleuca	Ochre Brittlegill	
Russula queletii	Russula queletii	Fruity Brittlegill	
Russula sardonia	Russula luteotacta	Primrose Brittlegill	
Sarcoscypha austriaca	Sarcoscypha austriaca	Scarlet Elfcup	New to List from FRDBI
Schizophyllum commune	Schizophyllum commune	Common Porecrust	New to List from this survey
Scleroderma bovista	Scleroderma bovista	Potato Earthball	New to List from this survey
Scleroderma citrinum	Scleroderma citrinum	Common Earthball	
Scutellinia cejpii	Scutellinia cejpii		
Scutellinia scutellata	Scutellinia scutellata	Common Eyelash	
Spinellus fusiger	Spinellus fusiger	Bonnet Mould	
Stemonitis nigrescens	Stemonitis nigrescens		
Stemonitopsis hyperopta	Stemonitopsis hyperopta		
Stenocybe nitida	Stenocybe nitida		
Stereum hirsutum	Stereum hirsutum	Hairy Curtain Crust	
Stereum rugosum	Stereum rugosum	Bleeding Broadleaf Crust	

Original Species	Current Name	Common Name	Comment
Stropharia aeruginosa	Stropharia aeruginosa		New to List from this survey
Stropharia albonitens	Stropharia albonitens		New to List from this survey
Stropharia coronilla	Stropharia coronilla	Garland Roundhead	New to List from this survey
Stropharia pseudocyanea	Stropharia pseudocyanea	Peppery Roundhead	
Stropharia semiglobata	Stropharia semiglobata	Dung Roundhead	
Suillus flavidus	Suillus flavidus		
Suillus grevillei	Suillus grevillei	Larch Bolete	
Suillus luteus	Suillus luteus	Slippery Jack	
Suillus variegatus	Suillus variegatus	Velvet Bolete	
Tapesia villosa	Tapesia villosa		
Taphrina alni	Taphrina alni	Alder Tongue	
Taphrina betulina	Taphrina betulina	Birch Besom	
Taphrina potentillae	Taphrina potentillae		New to List from FRDBI
Taphrina tormentillae	Taphrina tormentillae		
Taphrina tosquinetii	Taphrina tosquinetii		New to List from FRDBI
Thelophora spiculosa	Thelephora penicillata		
Trabrooksia applanata	Trabrooksia applanata		
Trametes gibbosa	Trametes gibbosa	Lumpy Bracket	
Trametes versicolor	Trametes versicolor	Turkeytail	
Tremella foliacea	Tremella foliacea	Leafy Brain	
Tremella mesenterica	Tremella mesenterica	Yellow Brain	
Tremella mesenterica	Tremella mesenterica	Yellow Brain	
Trichaptum abietinum	Trichaptum abietinum	Purplepore Bracket	
Trichia botiytis var. botrytis	Trichia botrytis var. botrytis		Spelling mistake
Trichoglossum hirsutum var. hirsutum	Trichoglossum hirsutum var. hirsutum	Hairy Earthtongue	
Tricholoma cingulatum	Tricholoma cingulatum	Girdled Knight	
Tricholoma fulvum	Tricholoma fulvum	Birch Knight	
Tricholoma sciodes	Tricholoma sciodes		
Tricholoma sulphurea	Tricholoma sulphureum var. sulphureum	Sulphur Knight	Spelling mistake
Tricholoma sulphureum var. sulphureum	Tricholoma sulphureum var. sulphureum	Sulphur Knight	
Tricholoma terreum	Tricholoma terreum	Grey Knight	New to List from this survey
Tricholoma ustale	Tricholoma ustale	Burnt Knight	
Tricholomopsis rutilans	Tricholomopsis rutilans	Plums and Custard	
Triphragmidium ulmariae	Triphragmium ulmariae		Spelling mistake
Trochila craterium	Trochila craterium		
Trochila ilicina	Trochila ilicina	Holly Speckle	

Original Species	Current Name	Common Name	Comment
Trochilia craterium	Trochila craterium		Spelling mistake
Tubaria furfuracia	Tubaria furfuracea	Winter Twiglet	Spelling mistake
Tubulifera arachnoidea	Tubulifera arachnoidea		
Typhula erythropus	Typhula erythropus	Redleg Club	
Typhula micans	Typhula micans		New to List from this survey
Typhula phacorrhiza	Typhula phacorrhiza		
Uromyces dactylidis	Uromyces dactylidis	Celandine Clustercup Rust	
Uromyces muscari	Uromyces muscari		
Ustulina deusta	Kretzschmaria deusta	Brittle Cinder	
Volvariella speciosa	Volvariella gloiocephala	Stubble Rosegill	
Xanthoriicola physciae	Xanthoriicola physciae		
Xerocomus chrysenteron	Boletus chrysenteron	Red Cracking Bolete	
Xylaria carpophila	Xylaria carpophila	Beechmast Candlesnuff	New to List from this survey
Xylaria hypoxylon	Xylaria hypoxylon	Candlesnuff Fungus	
Xylaria polymorpha	Xylaria polymorpha	Dead Man's Fingers	