

APPENDIX 1 (on line Supplemental). Data matrix with 23 taxa and 54 characters used in cladistic analysis of the *Vriesea corcovadensis* group. States of characters with non-observed data are indicated by "?" And not applicable to the data by "-". 'A' indicates polymorphism = [0,1], B = [0,2], C = [1,2], D= [1,3].

Taxa/characters	12345	1 67890	11111 12345	11112 67890	22222 12345	22223 67890	33333 12345	33334 67890	44444 12345	44445 67890	5555 1234
<i>Catopsis sessiliflora</i>	11000	00111	01101	01111	0030-	10200	10001	11110	02001	20010	02C0
<i>Racinaea aerisincola</i>	11010	00011	10001	01111	0000-	11201	10001	00110	10110	1-020	02A-
<i>Alcantarea glaziouana</i>	12100	22221	01123	00121	0030-	11210	00221	01200	A1022	30131	1001
<i>Guzmania lingulata</i>	11102	1A010	01111	00000	0020-	01010	01221	10111	10020	2-011	1020
<i>Mezobromelia pleiosticha</i>	12102	22121	01101	00020	02011	11210	01021	1??01	10022	21121	1001
<i>Tillandsia polystachia</i>	11120	AA011	01100	000A1	03311	A0010	02023	01A10	10120	00020	0210
<i>Tillandsia stricta</i>	10120	00001	21100	00000	0310-	00000	00023	1011A	10112	0-11-	0210
<i>Tillandsia tenuifolia</i>	10112	00001	21122	11000	0010-	00010	02001	10110	10110	0011-	01-0
<i>Vriesea bituminosa</i>	12102	22221	01121	00121	0030-	01121	00210	10A00	10022	20101	1001
<i>Vriesea carinata</i>	10001	10001	01021	01001	01010	01210	01220	01100	10022	1-010	102-
<i>Vriesea malzinei</i>	02122	11011	01100	00010	02010	01010	00222	11?00	10120	C0010	1210
<i>Vriesea neoglutinosa</i>	12101	11121	01120	00121	03011	11210	01120	01100	10020	10101	1001
<i>Vriesea arachnoidea</i>	01110	00011	10101	01111	0110-	00310	00022	01A00	10110	20200	11A0
<i>Vriesea biguassuensis</i>	011C0	000C1	10101	00011	21010	01212	01120	11100	10110	10000	10A0
<i>Vriesea correia-araujoi</i>	00110	00001	10002	10100	1100-	00010	03021	11100	10110	10200	1000
<i>Vriesea corcovadensis</i>	01110	00011	10101	0A110	1A011	A0210	0102A	11100	10112	10101	1200
<i>Vriesea flammea</i>	01110	00011	10101	000A0	1100-	01B1A	03021	11C00	10110	10000	1000
<i>Vriesea lubbersii</i>	011C0	00011	101B1	00111	C0011	11110	01020	C1100	10112	10010	0000
<i>Vriesea microrachis</i>	02120	00121	10101	00120	1130-	11210	0A121	11?00	10112	10001	1001
<i>Vriesea poenulata</i>	00110	00011	10002	10000	00B0-	0121A	01A20	21A00	10112	00100	1000
<i>Vriesea rectifolia</i>	02012	1C121	00111	00110	A0011	10013	0A022	10100	10???	?????	????
<i>Vriesea rubens</i>	02120	00021	10102	00121	CD010	10210	01120	11100	10112	10101	11A1
<i>Vriesea triangularis</i>	01110	10011	10130	00011	0000-	0121A	01130	11100	10???	?????	????

APPENDIX 2 (on line Supplemental). List of possible character-state assignments (MPR-sets, most parsimonious reconstruction state sets) for the characters with ambiguous optimization. Letters correspond to the labeled nodes in the strict consensus tree resulted from the analysis performed with all 54 characters (Fig. 1).

