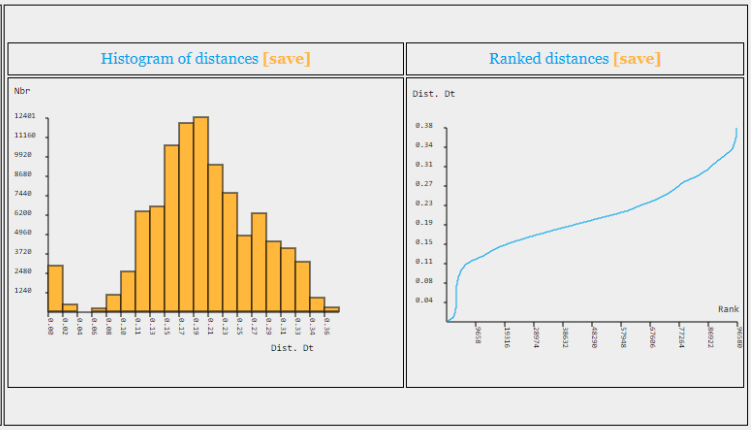
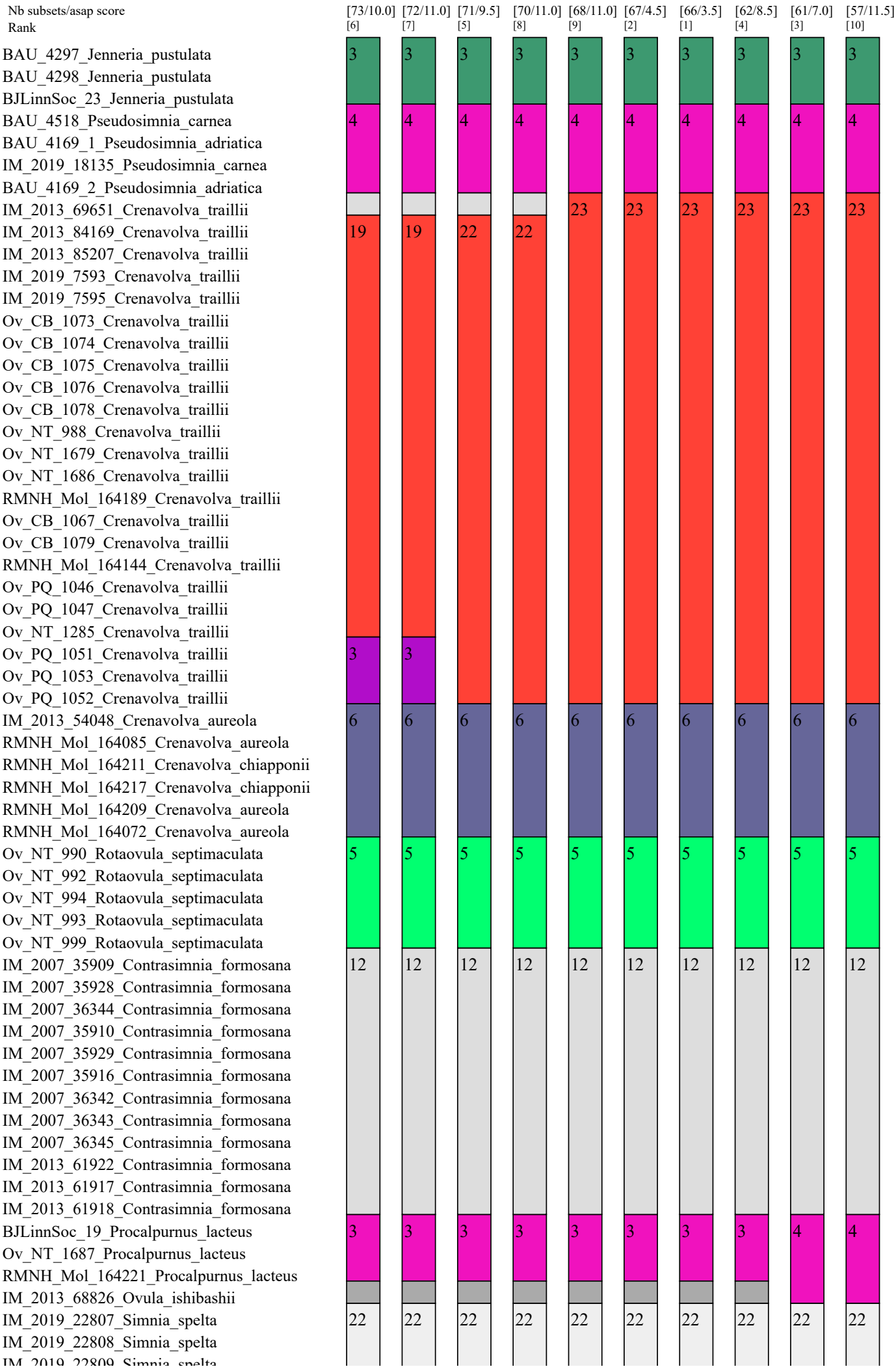
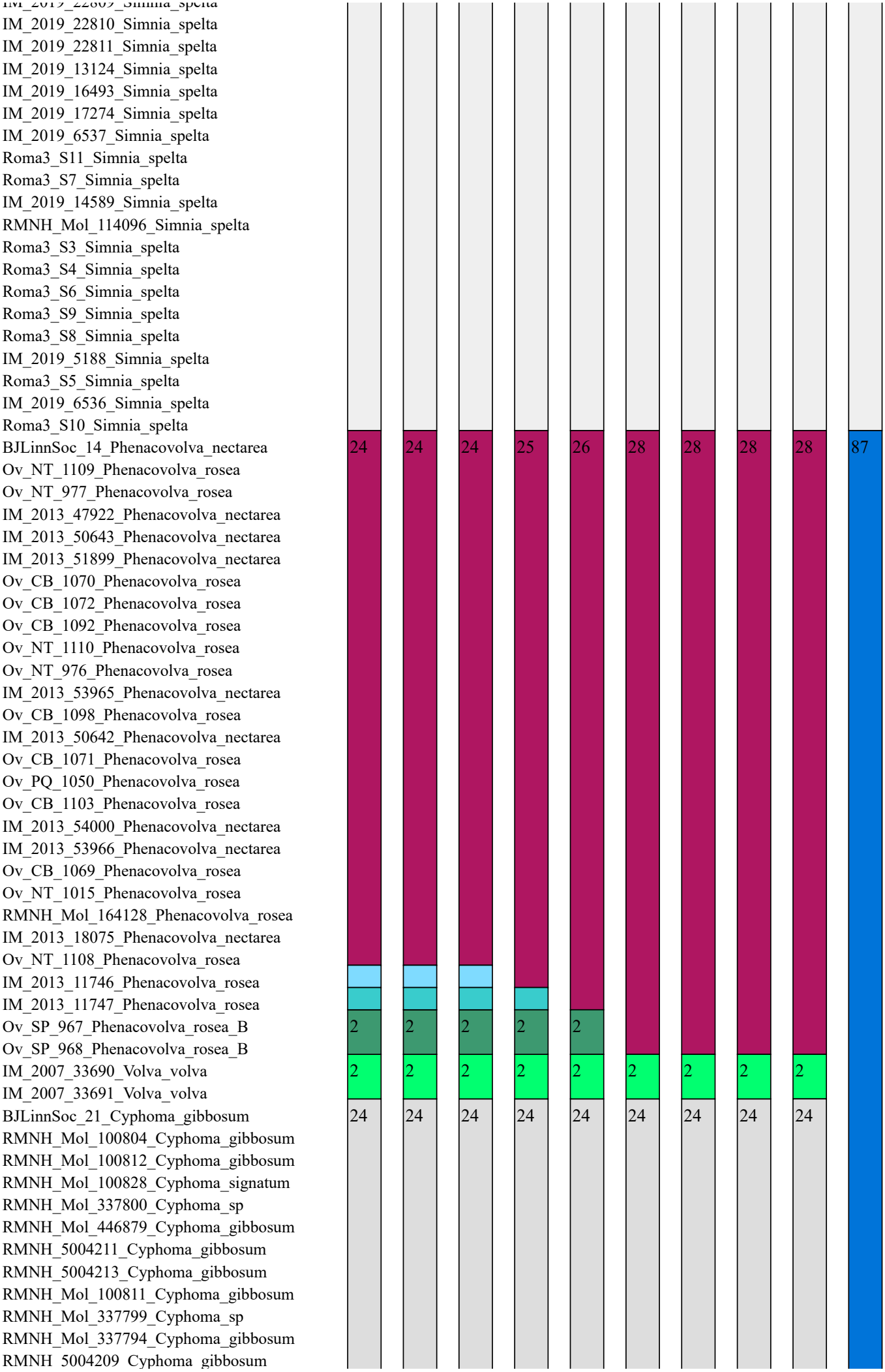
Figure S1. ASAP analysis of the COI dataset. Upper left, ASAP ten best partitions; upper central, ASAP ranked genetic distances; upper right, ASAP histogram of genetic distances; down left, voucher numbers; down right, the ten best partition identified by ASAP (each box correspond to one hypothetical species, the number of specimens included in each group is reported at the top of the box). On the top for each partition is reported the total number of hypothetical species found “Nb groups” and the ASAP score “Score”. “W” = Relative Barcode Gap Width.

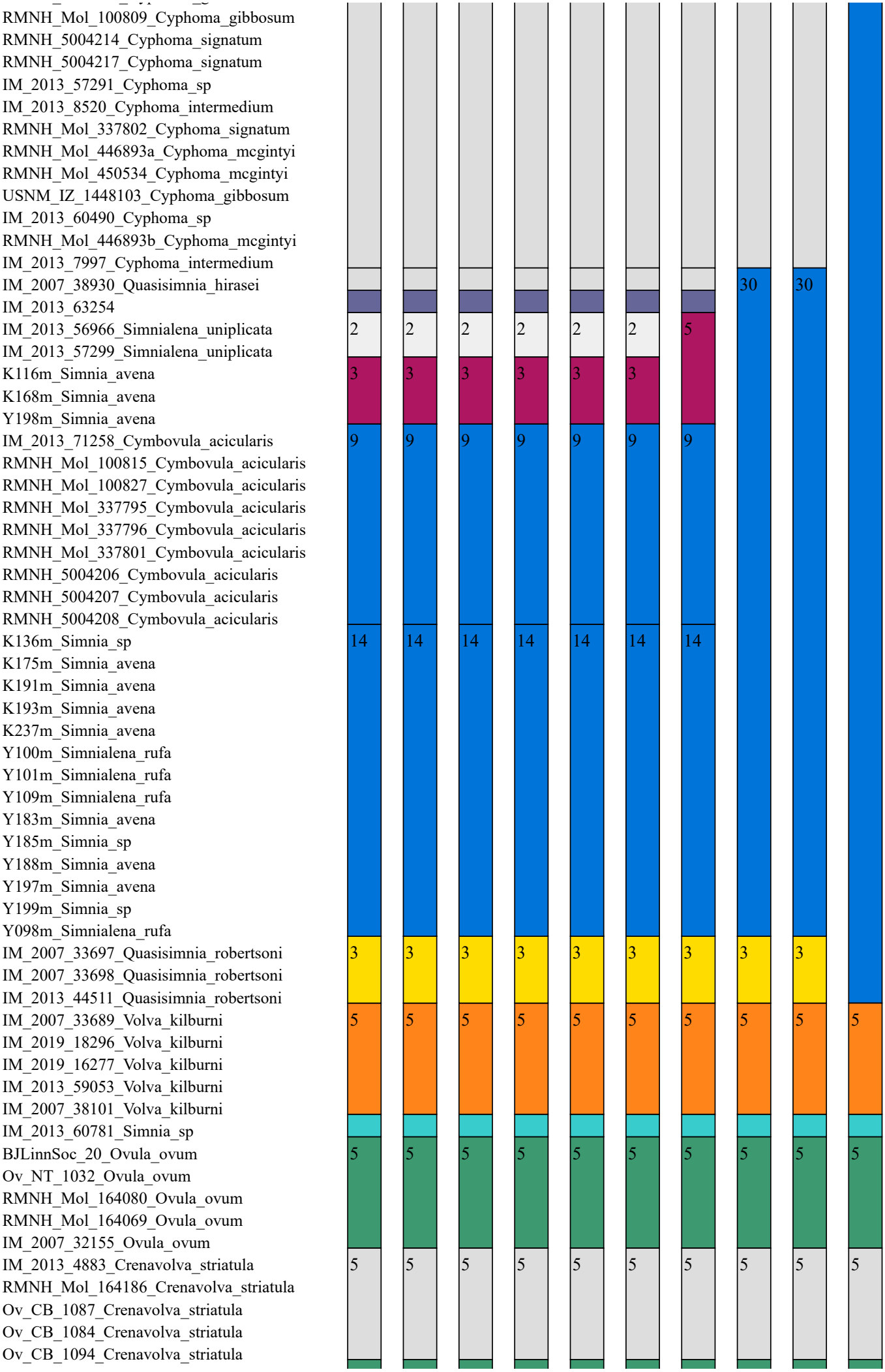
Nb of subsets	asap-score	P-val (rank)	W (rank)	Treshold dist.	Text
* 66	3.50	1.94e-01 (5)	3.39e-04 (2)	0.046150	list csv
* 67	4.50	2.20e-01 (6)	3.32e-04 (3)	0.037280	list csv
61	7.00	2.62e-02 (1)	2.62e-05 (13)	0.078481	list csv
62	8.50	4.12e-02 (2)	2.53e-05 (15)	0.073346	list csv
* 73	10.00	3.67e-01 (9)	3.27e-05 (11)	0.015396	list csv
* 71	10.00	4.69e-01 (12)	4.44e-05 (8)	0.023117	list csv
* 68	10.00	5.31e-01 (14)	5.70e-05 (6)	0.028579	list csv
64	10.50	6.63e-01 (17)	1.24e-04 (4)	0.062750	list csv
* 72	11.00	3.73e-01 (10)	3.20e-05 (12)	0.019265	list csv
* 70	11.00	4.97e-01 (13)	4.33e-05 (9)	0.025548	list csv

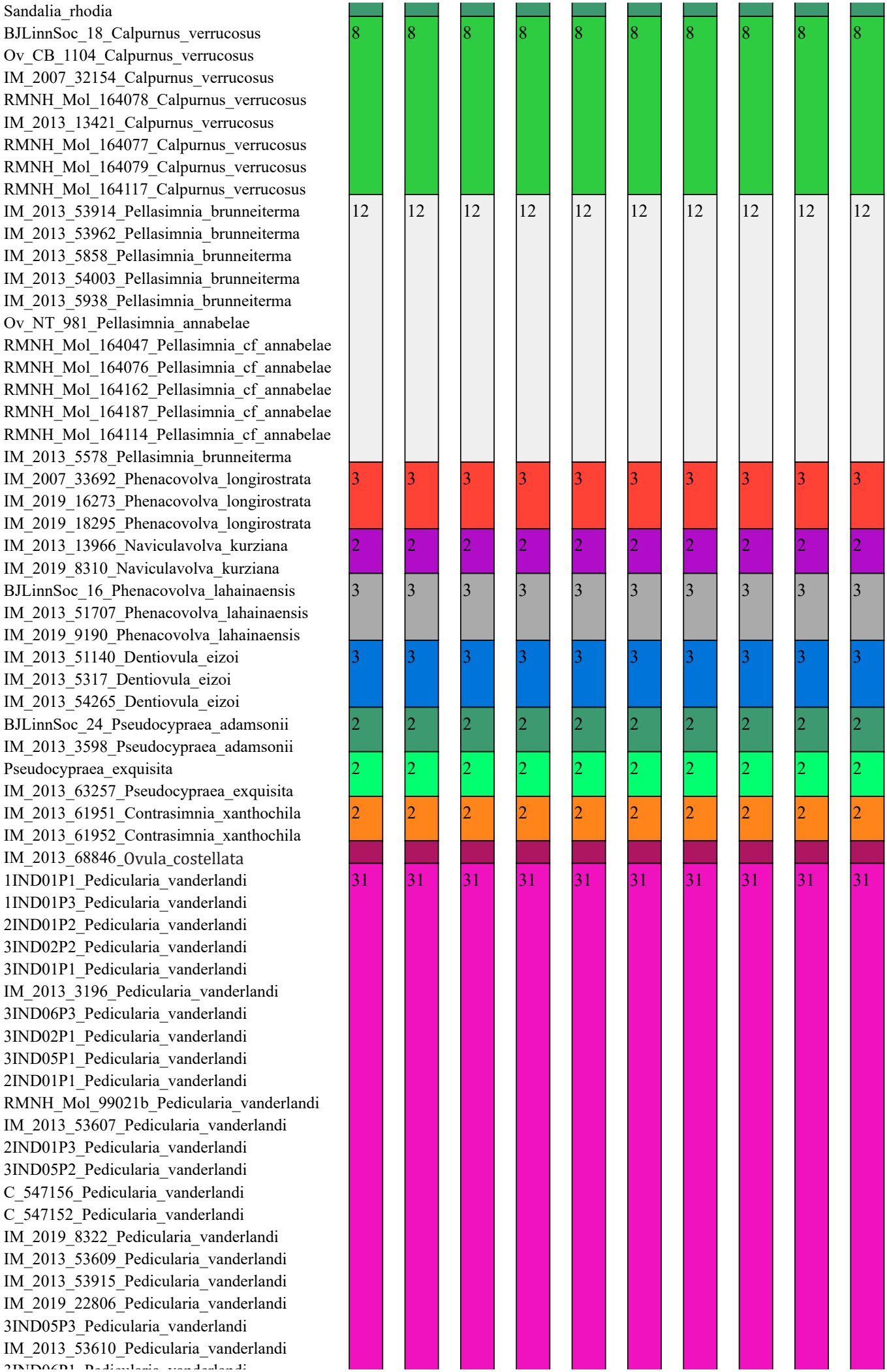
Number of subsets in this table equals to the number of primary species hypotheses in the respective partition

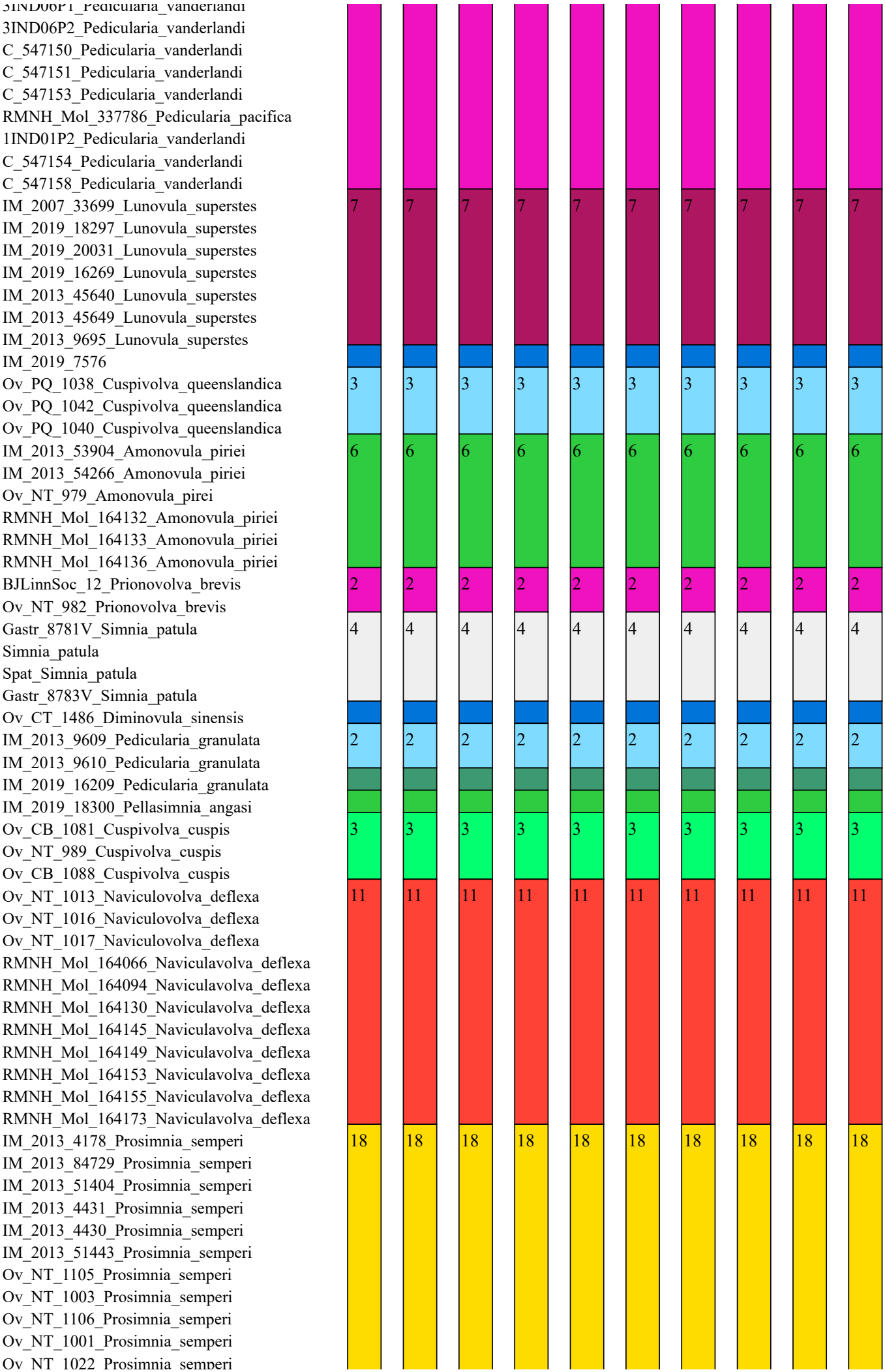


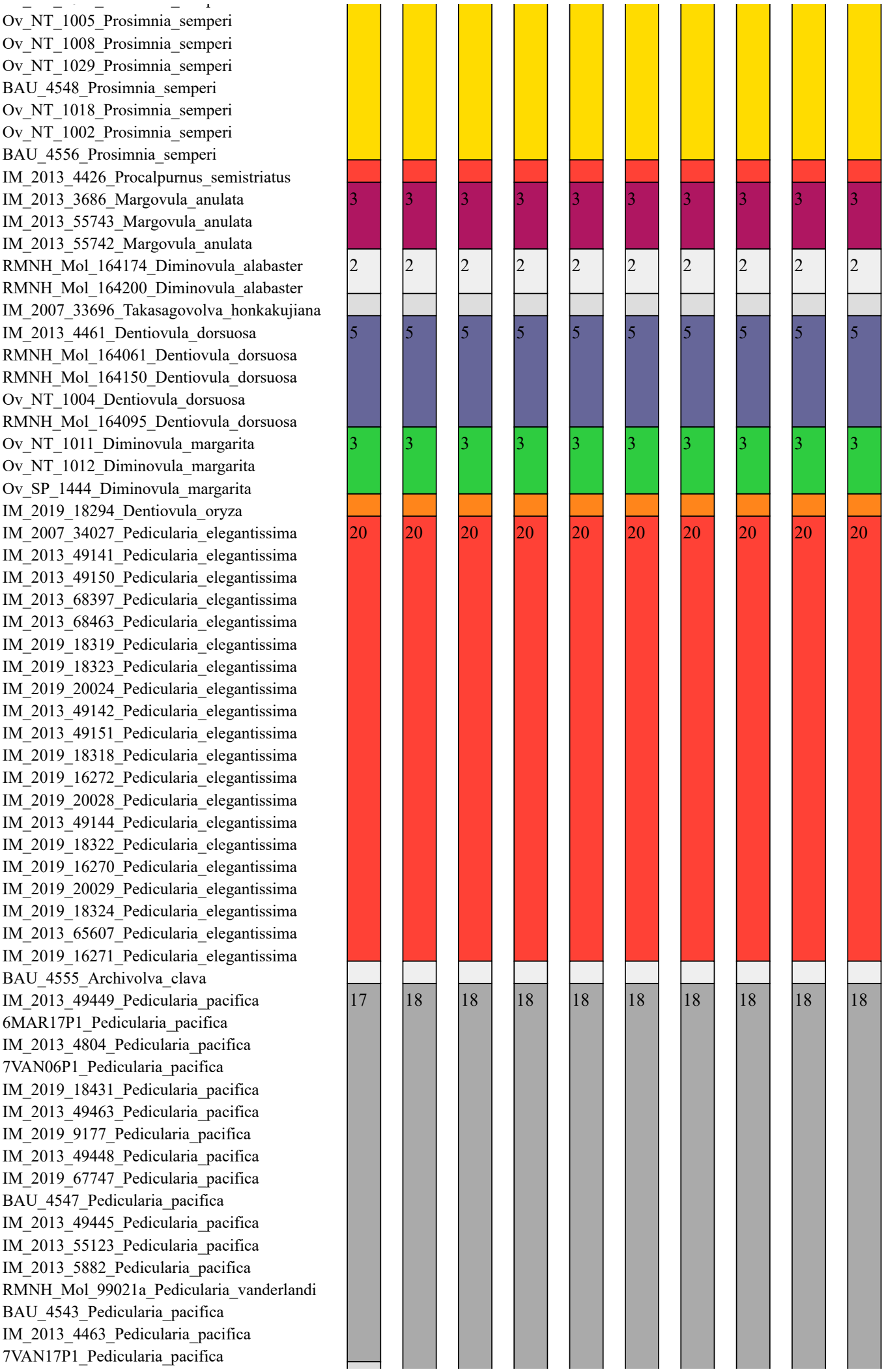

Nb subsets/asap score
Rank
[73/10.0] [6]
[72/11.0] [7]
[71/9.5] [5]
[70/11.0] [8]
[68/11.0] [9]
[67/4.5] [2]
[66/3.5] [1]
[62/8.5] [4]
[61/7.0] [3]
[57/11.5] [10]
BAU_4297_Jenneria_pustulata
BAU_4298_Jenneria_pustulata
BJLinnSoc_23_Jenneria_pustulata
BAU_4518_Pseudosimnia_carnea
BAU_4169_1_Pseudosimnia_adriatica
IM_2019_18135_Pseudosimnia_carnea
BAU_4169_2_Pseudosimnia_adriatica
IM_2013_69651_Crenavolva_traillii
IM_2013_84169_Crenavolva_traillii
IM_2013_85207_Crenavolva_traillii
IM_2019_7593_Crenavolva_traillii
IM_2019_7595_Crenavolva_traillii
Ov_CB_1073_Crenavolva_traillii
Ov_CB_1074_Crenavolva_traillii
Ov_CB_1075_Crenavolva_traillii
Ov_CB_1076_Crenavolva_traillii
Ov_CB_1078_Crenavolva_traillii
Ov_NT_988_Crenavolva_traillii
Ov_NT_1679_Crenavolva_traillii
Ov_NT_1686_Crenavolva_traillii
RMNH_Mol_164189_Crenavolva_traillii
Ov_CB_1067_Crenavolva_traillii
Ov_CB_1079_Crenavolva_traillii
RMNH_Mol_164144_Crenavolva_traillii
Ov_PQ_1046_Crenavolva_traillii
Ov_PQ_1047_Crenavolva_traillii
Ov_NT_1285_Crenavolva_traillii
Ov_PQ_1051_Crenavolva_traillii
Ov_PQ_1053_Crenavolva_traillii
Ov_PQ_1052_Crenavolva_traillii
IM_2013_54048_Crenavolva_aureola
RMNH_Mol_164085_Crenavolva_aureola
RMNH_Mol_164211_Crenavolva_chiapponii
RMNH_Mol_164217_Crenavolva_chiapponii
RMNH_Mol_164209_Crenavolva_aureola
RMNH_Mol_164072_Crenavolva_aureola
Ov_NT_990_Rotaovula_septimaculata
Ov_NT_992_Rotaovula_septimaculata
Ov_NT_994_Rotaovula_septimaculata
Ov_NT_993_Rotaovula_septimaculata
Ov_NT_999_Rotaovula_septimaculata
IM_2007_35909_Contrasimnia_formosana
IM_2007_35928_Contrasimnia_formosana
IM_2007_36344_Contrasimnia_formosana
IM_2007_35910_Contrasimnia_formosana
IM_2007_35929_Contrasimnia_formosana
IM_2007_35916_Contrasimnia_formosana
IM_2007_36342_Contrasimnia_formosana
IM_2007_36343_Contrasimnia_formosana
IM_2007_36345_Contrasimnia_formosana
IM_2013_61922_Contrasimnia_formosana
IM_2013_61917_Contrasimnia_formosana
IM_2013_61918_Contrasimnia_formosana
BJLinnSoc_19_Procalpurnus_lacteus
Ov_NT_1687_Procalpurnus_lacteus
RMNH_Mol_164221_Procalpurnus_lacteus
IM_2013_68826_Ovula_ishibashii
IM_2019_22807_Simnia_spelta
IM_2019_22808_Simnia_spelta
IM_2019_22809_Simnia_spelta

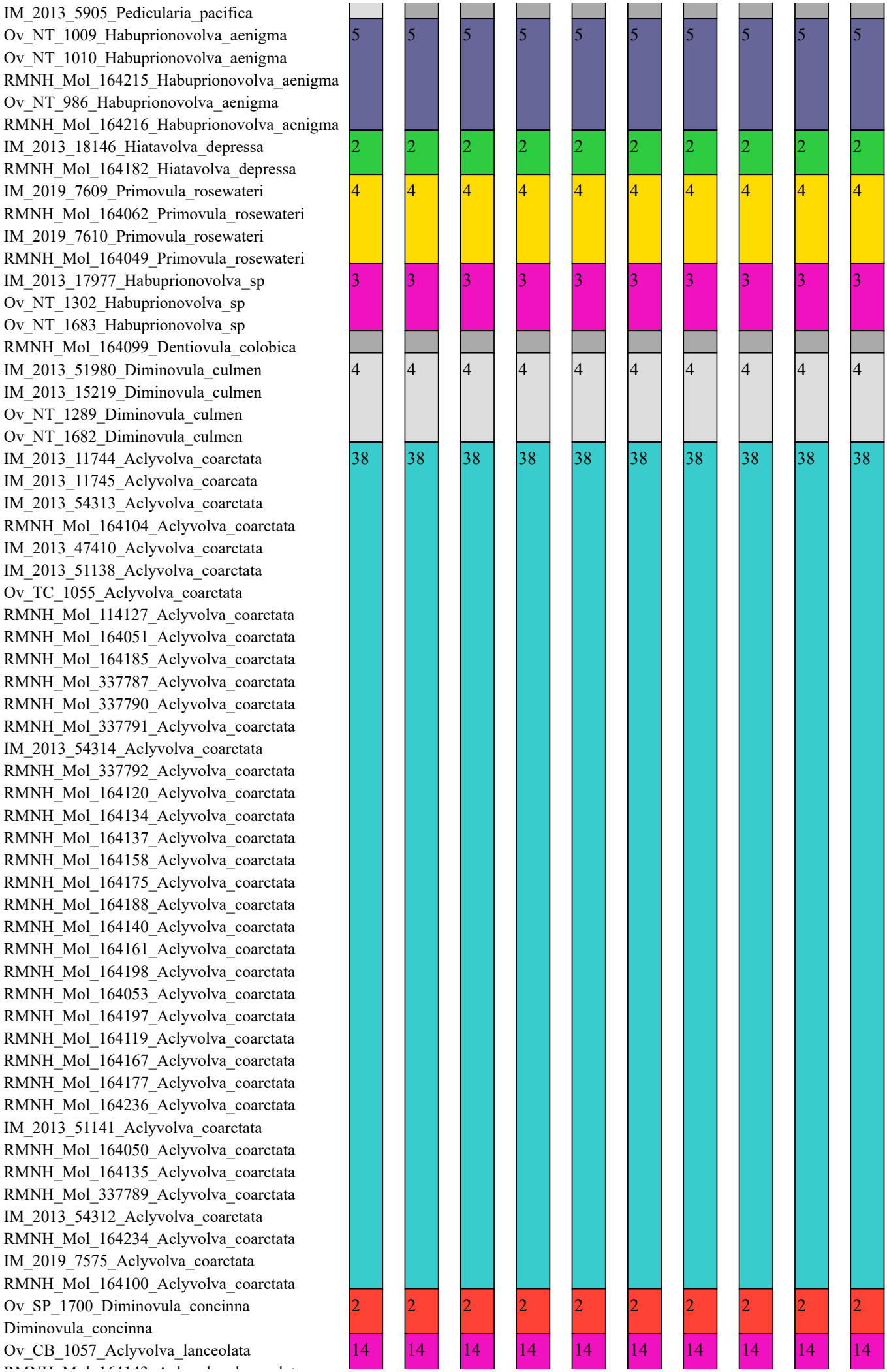

IM_2019_22809_Simnia_spelta
IM_2019_22810_Simnia_spelta
IM_2019_22811_Simnia_spelta
IM_2019_13124_Simnia_spelta
IM_2019_16493_Simnia_spelta
IM_2019_17274_Simnia_spelta
IM_2019_6537_Simnia_spelta
Roma3_S11_Simnia_spelta
Roma3_S7_Simnia_spelta
IM_2019_14589_Simnia_spelta
RMNH_Mol_114096_Simnia_spelta
Roma3_S3_Simnia_spelta
Roma3_S4_Simnia_spelta
Roma3_S6_Simnia_spelta
Roma3_S9_Simnia_spelta
Roma3_S8_Simnia_spelta
IM_2019_5188_Simnia_spelta
Roma3_S5_Simnia_spelta
IM_2019_6536_Simnia_spelta
Roma3_S10_Simnia_spelta
BJLinnSoc_14_Phenacovolva_nectarea
Ov_NT_1109_Phenacovolva_rosea
Ov_NT_977_Phenacovolva_rosea
IM_2013_47922_Phenacovolva_nectarea
IM_2013_50643_Phenacovolva_nectarea
IM_2013_51899_Phenacovolva_nectarea
Ov_CB_1070_Phenacovolva_rosea
Ov_CB_1072_Phenacovolva_rosea
Ov_CB_1092_Phenacovolva_rosea
Ov_NT_1110_Phenacovolva_rosea
Ov_NT_976_Phenacovolva_rosea
IM_2013_53965_Phenacovolva_nectarea
Ov_CB_1098_Phenacovolva_rosea
IM_2013_50642_Phenacovolva_nectarea
Ov_CB_1071_Phenacovolva_rosea
Ov_PQ_1050_Phenacovolva_rosea
Ov_CB_1103_Phenacovolva_rosea
IM_2013_54000_Phenacovolva_nectarea
IM_2013_53966_Phenacovolva_nectarea
Ov_CB_1069_Phenacovolva_rosea
Ov_NT_1015_Phenacovolva_rosea
RMNH_Mol_164128_Phenacovolva_rosea
IM_2013_18075_Phenacovolva_nectarea
Ov_NT_1108_Phenacovolva_rosea
IM_2013_11746_Phenacovolva_rosea
IM_2013_11747_Phenacovolva_rosea
Ov_SP_967_Phenacovolva_rosea_B
Ov_SP_968_Phenacovolva_rosea_B
IM_2007_33690_Volva_volva
IM_2007_33691_Volva_volva
BJLinnSoc_21_Cyphoma_gibbosum
RMNH_Mol_100804_Cyphoma_gibbosum
RMNH_Mol_100812_Cyphoma_gibbosum
RMNH_Mol_100828_Cyphoma_signatum
RMNH_Mol_337800_Cyphoma_sp
RMNH_Mol_446879_Cyphoma_gibbosum
RMNH_5004211_Cyphoma_gibbosum
RMNH_5004213_Cyphoma_gibbosum
RMNH_Mol_100811_Cyphoma_gibbosum
RMNH_Mol_337799_Cyphoma_sp
RMNH_Mol_337794_Cyphoma_gibbosum
RMNH_5004209_Cyphoma_gibbosum
24 24 24 25 26 28 28 28 28 87
2 2 2 2 2
2 2 2 2 2 2 2 2 2
24 24 24 24 24 24 24 24 24


RMNH_Mol_100809_Cyphoma_gibbosum
RMNH_5004214_Cyphoma_signatum
RMNH_5004217_Cyphoma_signatum
IM_2013_57291_Cyphoma_sp
IM_2013_8520_Cyphoma_intermedium
RMNH_Mol_337802_Cyphoma_signatum
RMNH_Mol_446893a_Cyphoma_mcgintyi
RMNH_Mol_450534_Cyphoma_mcgintyi
USNM_IZ_1448103_Cyphoma_gibbosum
IM_2013_60490_Cyphoma_sp
RMNH_Mol_446893b_Cyphoma_mcgintyi
IM_2013_7997_Cyphoma_intermedium
IM_2007_38930_Quasisimnia_hirasei
IM_2013_63254
IM_2013_56966_Simnialena_uniplicata
IM_2013_57299_Simnialena_uniplicata
K116m_Simnia_avena
K168m_Simnia_avena
Y198m_Simnia_avena
IM_2013_71258_Cymbovula_acicularis
RMNH_Mol_100815_Cymbovula_acicularis
RMNH_Mol_100827_Cymbovula_acicularis
RMNH_Mol_337795_Cymbovula_acicularis
RMNH_Mol_337796_Cymbovula_acicularis
RMNH_Mol_337801_Cymbovula_acicularis
RMNH_5004206_Cymbovula_acicularis
RMNH_5004207_Cymbovula_acicularis
RMNH_5004208_Cymbovula_acicularis
K136m_Simnia_sp
K175m_Simnia_avena
K191m_Simnia_avena
K193m_Simnia_avena
K237m_Simnia_avena
Y100m_Simnialena_rufa
Y101m_Simnialena_rufa
Y109m_Simnialena_rufa
Y183m_Simnia_avena
Y185m_Simnia_sp
Y188m_Simnia_avena
Y197m_Simnia_avena
Y199m_Simnia_sp
Y098m_Simnialena_rufa
IM_2007_33697_Quasisimnia_robertsoni
IM_2007_33698_Quasisimnia_robertsoni
IM_2013_44511_Quasisimnia_robertsoni
IM_2007_33689_Volva_kilburni
IM_2019_18296_Volva_kilburni
IM_2019_16277_Volva_kilburni
IM_2013_59053_Volva_kilburni
IM_2007_38101_Volva_kilburni
IM_2013_60781_Simnia_sp
BJLinnSoc_20_Ovula_ovum
Ov_NT_1032_Ovula_ovum
RMNH_Mol_164080_Ovula_ovum
RMNH_Mol_164069_Ovula_ovum
IM_2007_32155_Ovula_ovum
IM_2013_4883_Crenavolva_striatula
RMNH_Mol_164186_Crenavolva_striatula
Ov_CB_1087_Crenavolva_striatula
Ov_CB_1084_Crenavolva_striatula
Ov_CB_1094_Crenavolva_striatula
2
3
9
14
3
5
30
30


Sandalia_rhodia
BJLinnSoc_18_Calpurnus_verrucosus
Ov_CB_1104_Calpurnus_verrucosus
IM_2007_32154_Calpurnus_verrucosus
RMNH_Mol_164078_Calpurnus_verrucosus
IM_2013_13421_Calpurnus_verrucosus
RMNH_Mol_164077_Calpurnus_verrucosus
RMNH_Mol_164079_Calpurnus_verrucosus
RMNH_Mol_164117_Calpurnus_verrucosus
IM_2013_53914_Pellasimnia_brunneiterma
IM_2013_53962_Pellasimnia_brunneiterma
IM_2013_5858_Pellasimnia_brunneiterma
IM_2013_54003_Pellasimnia_brunneiterma
IM_2013_5938_Pellasimnia_brunneiterma
Ov_NT_981_Pellasimnia_annabelae
RMNH_Mol_164047_Pellasimnia_cf_annabelae
RMNH_Mol_164076_Pellasimnia_cf_annabelae
RMNH_Mol_164162_Pellasimnia_cf_annabelae
RMNH_Mol_164187_Pellasimnia_cf_annabelae
RMNH_Mol_164114_Pellasimnia_cf_annabelae
IM_2013_5578_Pellasimnia_brunneiterma
IM_2007_33692_Phenacovolva_longirostrata
IM_2019_16273_Phenacovolva_longirostrata
IM_2019_18295_Phenacovolva_longirostrata
IM_2013_13966_Naviculavolva_kurziana
IM_2019_8310_Naviculavolva_kurziana
BJLinnSoc_16_Phenacovolva_lahainaensis
IM_2013_51707_Phenacovolva_lahainaensis
IM_2019_9190_Phenacovolva_lahainaensis
IM_2013_51140_Dentiovula_eizoi
IM_2013_5317_Dentiovula_eizoi
IM_2013_54265_Dentiovula_eizoi
BJLinnSoc_24_Pseudocypraea_adamsonii
IM_2013_3598_Pseudocypraea_adamsonii
Pseudocypraea_exquisita
IM_2013_63257_Pseudocypraea_exquisita
IM_2013_61951_Contrasimnia_xanthochila
IM_2013_61952_Contrasimnia_xanthochila
IM_2013_68846_Ovula_costellata
1IND01P1_Pedicularia_vanderlandi
1IND01P3_Pedicularia_vanderlandi
2IND01P2_Pedicularia_vanderlandi
3IND02P2_Pedicularia_vanderlandi
3IND01P1_Pedicularia_vanderlandi
IM_2013_3196_Pedicularia_vanderlandi
3IND06P3_Pedicularia_vanderlandi
3IND02P1_Pedicularia_vanderlandi
3IND05P1_Pedicularia_vanderlandi
2IND01P1_Pedicularia_vanderlandi
RMNH_Mol_99021b_Pedicularia_vanderlandi
IM_2013_53607_Pedicularia_vanderlandi
2IND01P3_Pedicularia_vanderlandi
3IND05P2_Pedicularia_vanderlandi
C_547156_Pedicularia_vanderlandi
C_547152_Pedicularia_vanderlandi
IM_2019_8322_Pedicularia_vanderlandi
IM_2013_53609_Pedicularia_vanderlandi
IM_2013_53915_Pedicularia_vanderlandi
IM_2019_22806_Pedicularia_vanderlandi
3IND05P3_Pedicularia_vanderlandi
IM_2013_53610_Pedicularia_vanderlandi


3IND06P1_Pedicularia_vanderlandi
3IND06P2_Pedicularia_vanderlandi
C_547150_Pedicularia_vanderlandi
C_547151_Pedicularia_vanderlandi
C_547153_Pedicularia_vanderlandi
RMNH_Mol_337786_Pedicularia_pacifica
1IND01P2_Pedicularia_vanderlandi
C_547154_Pedicularia_vanderlandi
C_547158_Pedicularia_vanderlandi
IM_2007_33699_Lunovula_superstes
IM_2019_18297_Lunovula_superstes
IM_2019_20031_Lunovula_superstes
IM_2019_16269_Lunovula_superstes
IM_2013_45640_Lunovula_superstes
IM_2013_45649_Lunovula_superstes
IM_2013_9695_Lunovula_superstes
IM_2019_7576
Ov_PQ_1038_Cuspivolva_queenslandica
Ov_PQ_1042_Cuspivolva_queenslandica
Ov_PQ_1040_Cuspivolva_queenslandica
IM_2013_53904_Amonovula_piriei
IM_2013_54266_Amonovula_piriei
Ov_NT_979_Amonovula_pirei
RMNH_Mol_164132_Amonovula_piriei
RMNH_Mol_164133_Amonovula_piriei
RMNH_Mol_164136_Amonovula_piriei
BJLinnSoc_12_Prionovolva_brevis
Ov_NT_982_Prionovolva_brevis
Gastr_8781V_Simnia_patula
Simnia_patula
Spat_Simnia_patula
Gastr_8783V_Simnia_patula
Ov_CT_1486_Diminovula_sinensis
IM_2013_9609_Pedicularia_granulata
IM_2013_9610_Pedicularia_granulata
IM_2019_16209_Pedicularia_granulata
IM_2019_18300_Pellasimnia_angasi
Ov_CB_1081_Cuspivolva_cuspis
Ov_NT_989_Cuspivolva_cuspis
Ov_CB_1088_Cuspivolva_cuspis
Ov_NT_1013_Naviculovolva_deflexa
Ov_NT_1016_Naviculovolva_deflexa
Ov_NT_1017_Naviculovolva_deflexa
RMNH_Mol_164066_Naviculavolva_deflexa
RMNH_Mol_164094_Naviculavolva_deflexa
RMNH_Mol_164130_Naviculavolva_deflexa
RMNH_Mol_164145_Naviculavolva_deflexa
RMNH_Mol_164149_Naviculavolva_deflexa
RMNH_Mol_164153_Naviculavolva_deflexa
RMNH_Mol_164155_Naviculavolva_deflexa
RMNH_Mol_164173_Naviculavolva_deflexa
IM_2013_4178_Prosimnia_semperi
IM_2013_84729_Prosimnia_semperi
IM_2013_51404_Prosimnia_semperi
IM_2013_4431_Prosimnia_semperi
IM_2013_4430_Prosimnia_semperi
IM_2013_51443_Prosimnia_semperi
Ov_NT_1105_Prosimnia_semperi
Ov_NT_1003_Prosimnia_semperi
Ov_NT_1106_Prosimnia_semperi
Ov_NT_1001_Prosimnia_semperi
Ov_NT_1022_Prosimnia_semperi


Ov_NT_1005_Prosimnia_semperi
Ov_NT_1008_Prosimnia_semperi
Ov_NT_1029_Prosimnia_semperi
BAU_4548_Prosimnia_semperi
Ov_NT_1018_Prosimnia_semperi
Ov_NT_1002_Prosimnia_semperi
BAU_4556_Prosimnia_semperi
IM_2013_4426_Procalpurnus_semistriatus
IM_2013_3686_Margovula_anulata
IM_2013_55743_Margovula_anulata
IM_2013_55742_Margovula_anulata
RMNH_Mol_164174_Diminovula_alabaster
RMNH_Mol_164200_Diminovula_alabaster
IM_2007_33696_Takasagovolva_honkakujiana
IM_2013_4461_Dentiovula_dorsuosa
RMNH_Mol_164061_Dentiovula_dorsuosa
RMNH_Mol_164150_Dentiovula_dorsuosa
Ov_NT_1004_Dentiovula_dorsuosa
RMNH_Mol_164095_Dentiovula_dorsuosa
Ov_NT_1011_Diminovula_margarita
Ov_NT_1012_Diminovula_margarita
Ov_SP_1444_Diminovula_margarita
IM_2019_18294_Dentiovula_oryza
IM_2007_34027_Pedicularia_elegantissima
IM_2013_49141_Pedicularia_elegantissima
IM_2013_49150_Pedicularia_elegantissima
IM_2013_68397_Pedicularia_elegantissima
IM_2013_68463_Pedicularia_elegantissima
IM_2019_18319_Pedicularia_elegantissima
IM_2019_18323_Pedicularia_elegantissima
IM_2019_20024_Pedicularia_elegantissima
IM_2013_49142_Pedicularia_elegantissima
IM_2013_49151_Pedicularia_elegantissima
IM_2019_18318_Pedicularia_elegantissima
IM_2019_16272_Pedicularia_elegantissima
IM_2019_20028_Pedicularia_elegantissima
IM_2013_49144_Pedicularia_elegantissima
IM_2019_18322_Pedicularia_elegantissima
IM_2019_16270_Pedicularia_elegantissima
IM_2019_20029_Pedicularia_elegantissima
IM_2019_18324_Pedicularia_elegantissima
IM_2013_65607_Pedicularia_elegantissima
IM_2019_16271_Pedicularia_elegantissima
BAU_4555_Archivolva_clava
IM_2013_49449_Pedicularia_pacifica
6MAR17P1_Pedicularia_pacifica
IM_2013_4804_Pedicularia_pacifica
7VAN06P1_Pedicularia_pacifica
IM_2019_18431_Pedicularia_pacifica
IM_2013_49463_Pedicularia_pacifica
IM_2019_9177_Pedicularia_pacifica
IM_2013_49448_Pedicularia_pacifica
IM_2019_67747_Pedicularia_pacifica
BAU_4547_Pedicularia_pacifica
IM_2013_49445_Pedicularia_pacifica
IM_2013_55123_Pedicularia_pacifica
IM_2013_5882_Pedicularia_pacifica
RMNH_Mol_99021a_Pedicularia_vanderlandi
BAU_4543_Pedicularia_pacifica
IM_2013_4463_Pedicularia_pacifica
7VAN17P1_Pedicularia_pacifica
3
2
5
3
20
17
18


IM_2013_5905_Pedicularia_pacifica
Ov_NT_1009_Habuprionovolva_aenigma
Ov_NT_1010_Habuprionovolva_aenigma
RMNH_Mol_164215_Habuprionovolva_aenigma
Ov_NT_986_Habuprionovolva_aenigma
RMNH_Mol_164216_Habuprionovolva_aenigma
IM_2013_18146_Hiatavolva_depressa
RMNH_Mol_164182_Hiatavolva_depressa
IM_2019_7609_Primovula_rosewateri
RMNH_Mol_164062_Primovula_rosewateri
IM_2019_7610_Primovula_rosewateri
RMNH_Mol_164049_Primovula_rosewateri
IM_2013_17977_Habuprionovolva_sp
Ov_NT_1302_Habuprionovolva_sp
Ov_NT_1683_Habuprionovolva_sp
RMNH_Mol_164099_Dentiovula_colobica
IM_2013_51980_Diminovula_culmen
IM_2013_15219_Diminovula_culmen
Ov_NT_1289_Diminovula_culmen
Ov_NT_1682_Diminovula_culmen
IM_2013_11744_Aclyvolva_coarctata
IM_2013_11745_Aclyvolva_coarcata
IM_2013_54313_Aclyvolva_coarctata
RMNH_Mol_164104_Aclyvolva_coarctata
IM_2013_47410_Aclyvolva_coarctata
IM_2013_51138_Aclyvolva_coarctata
Ov_TC_1055_Aclyvolva_coarctata
RMNH_Mol_114127_Aclyvolva_coarctata
RMNH_Mol_164051_Aclyvolva_coarctata
RMNH_Mol_164185_Aclyvolva_coarctata
RMNH_Mol_337787_Aclyvolva_coarctata
RMNH_Mol_337790_Aclyvolva_coarctata
RMNH_Mol_337791_Aclyvolva_coarctata
IM_2013_54314_Aclyvolva_coarctata
RMNH_Mol_337792_Aclyvolva_coarctata
RMNH_Mol_164120_Aclyvolva_coarctata
RMNH_Mol_164134_Aclyvolva_coarctata
RMNH_Mol_164137_Aclyvolva_coarctata
RMNH_Mol_164158_Aclyvolva_coarctata
RMNH_Mol_164175_Aclyvolva_coarctata
RMNH_Mol_164188_Aclyvolva_coarctata
RMNH_Mol_164140_Aclyvolva_coarctata
RMNH_Mol_164161_Aclyvolva_coarctata
RMNH_Mol_164198_Aclyvolva_coarctata
RMNH_Mol_164053_Aclyvolva_coarctata
RMNH_Mol_164197_Aclyvolva_coarctata
RMNH_Mol_164119_Aclyvolva_coarctata
RMNH_Mol_164167_Aclyvolva_coarctata
RMNH_Mol_164177_Aclyvolva_coarctata
RMNH_Mol_164236_Aclyvolva_coarctata
IM_2013_51141_Aclyvolva_coarctata
RMNH_Mol_164050_Aclyvolva_coarctata
RMNH_Mol_164135_Aclyvolva_coarctata
RMNH_Mol_337789_Aclyvolva_coarctata
IM_2013_54312_Aclyvolva_coarctata
RMNH_Mol_164234_Aclyvolva_coarctata
IM_2019_7575_Aclyvolva_coarctata
RMNH_Mol_164100_Aclyvolva_coarctata
Ov_SP_1700_Diminovula_concinna
Diminovula_concinna
Ov_CB_1057_Aclyvolva_lanceolata
5
2
4
3
4
38
2
14

RMNH_Mol_164143_Aclyvolva_lanceolata
RMNH_Mol_164152_Aclyvolva_lanceolata
RMNH_Mol_164154_Aclyvolva_lanceolata
RMNH_Mol_164179_Aclyvolva_lanceolata
RMNH_Mol_164183_Aclyvolva_lanceolata
RMNH_Mol_164190_Aclyvolva_lanceolata
RMNH_Mol_164195_Aclyvolva_lanceolata
RMNH_Mol_164169_Aclyvolva_lanceolata
RMNH_Mol_164192_Aclyvolva_lanceolata
RMNH_Mol_164165_Aclyvolva_lanceolata
RMNH_Mol_337793_Aclyvolva_lanceolata
RMNH_Mol_164181_Aclyvolva_lanceolata
RMNH_Mol_337788_Aclyvolva_lanceolata

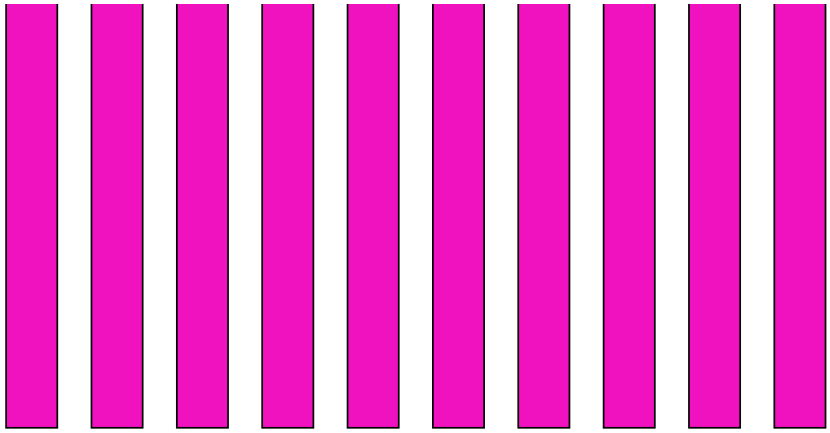


Figure S2. Maximum Likelihood phylogenetic inference on the combined COI-16S-28S combined dataset. Numbers at nodes indicate ultrafast bootstrap values.

Figure S3. Maximum Likelihood phylogenetic inference on the COI dataset. Numbers at nodes indicate ultrafast bootstrap values.

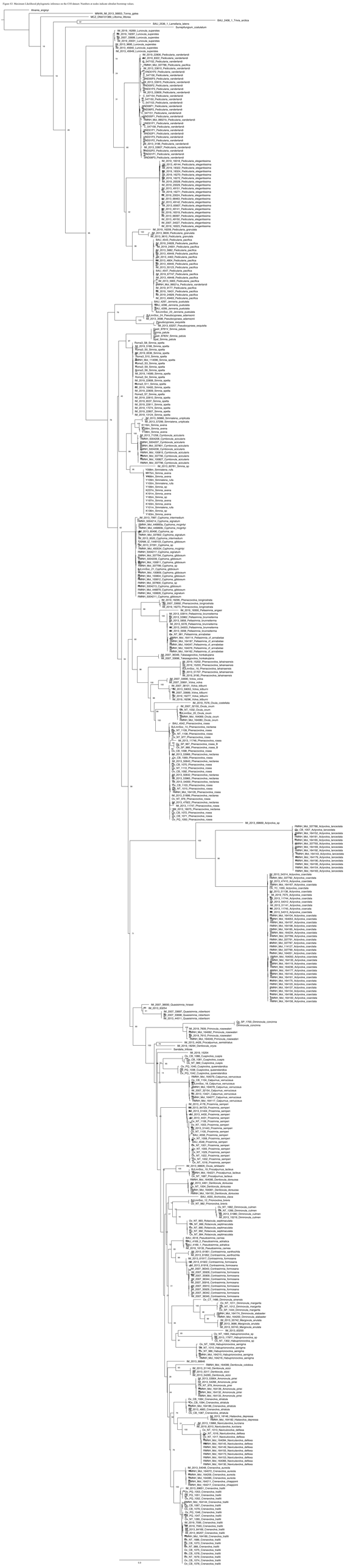


Figure S4. Maximum Likelihood phylogenetic inference on the 105 dataset. Numbers at nodes indicate ultrafast bootstrap values.

Figure S5. Maximum Likelihood phylogenetic inference on the 28S dataset. Numbers at nodes indicate ultrafast bootstrap values.

Figure S6. Bayesian phylogenetic inference on the COI-16S-28S combined dataset. Numbers at nodes indicate posterior probability values.

Figure S7. Bayesian phylogenetic inference on the COI dataset. Numbers at nodes indicate posterior probability values.

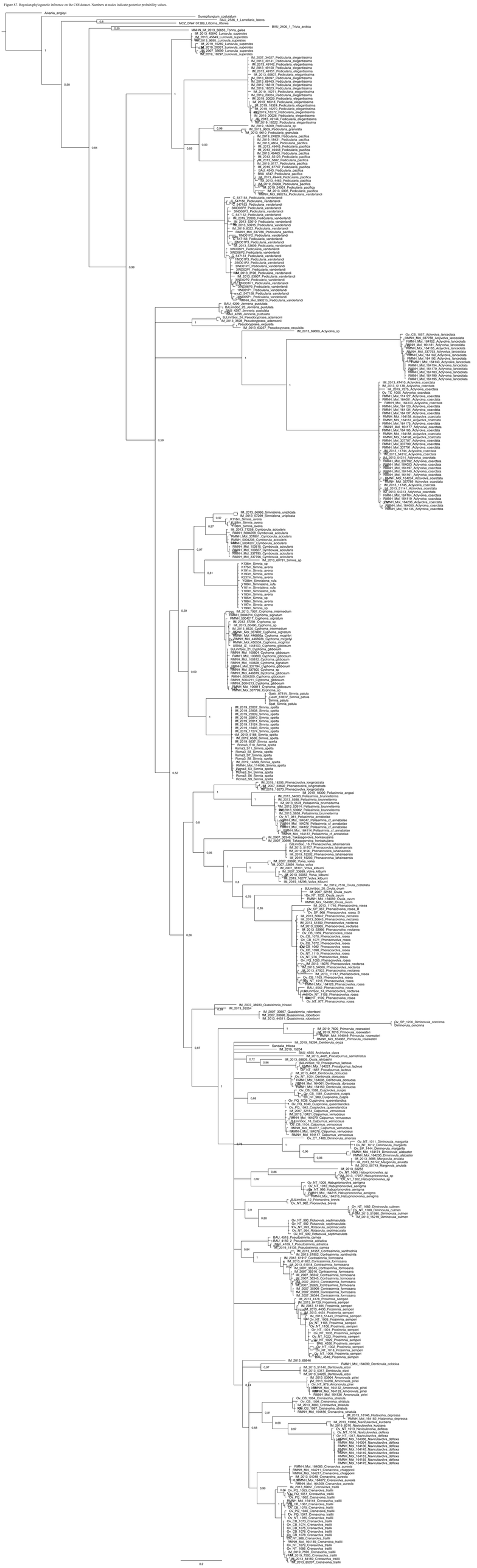


Figure S8. Bayesian phylogenetic inference on the 16S dataset. Numbers at nodes indicate posterior probability values.

Figure S9. Bayesian phylogenetic inference on the 28S dataset. Numbers at nodes indicate posterior probability values.

Supplementary Material: tables

Table S1. List of gastropod samples used in this study, along with voucher registration numbers, collection localities, number of localities corresponding to orange points on the map (Fig. 2), cnidarian hosts and GenBank accession numbers for sequences; the names correspond to the morphological identification of each specimen (PSH); * indicates samples included in the combined dataset used for the macroevolutionary analysis; ° indicates identification of the coral host based on both morphology and molecular data.

Table S2. List of cnidarians associated with ovulids samples used in this study, along with voucher registration numbers, collection localities, and GenBank accession numbers for sequences.