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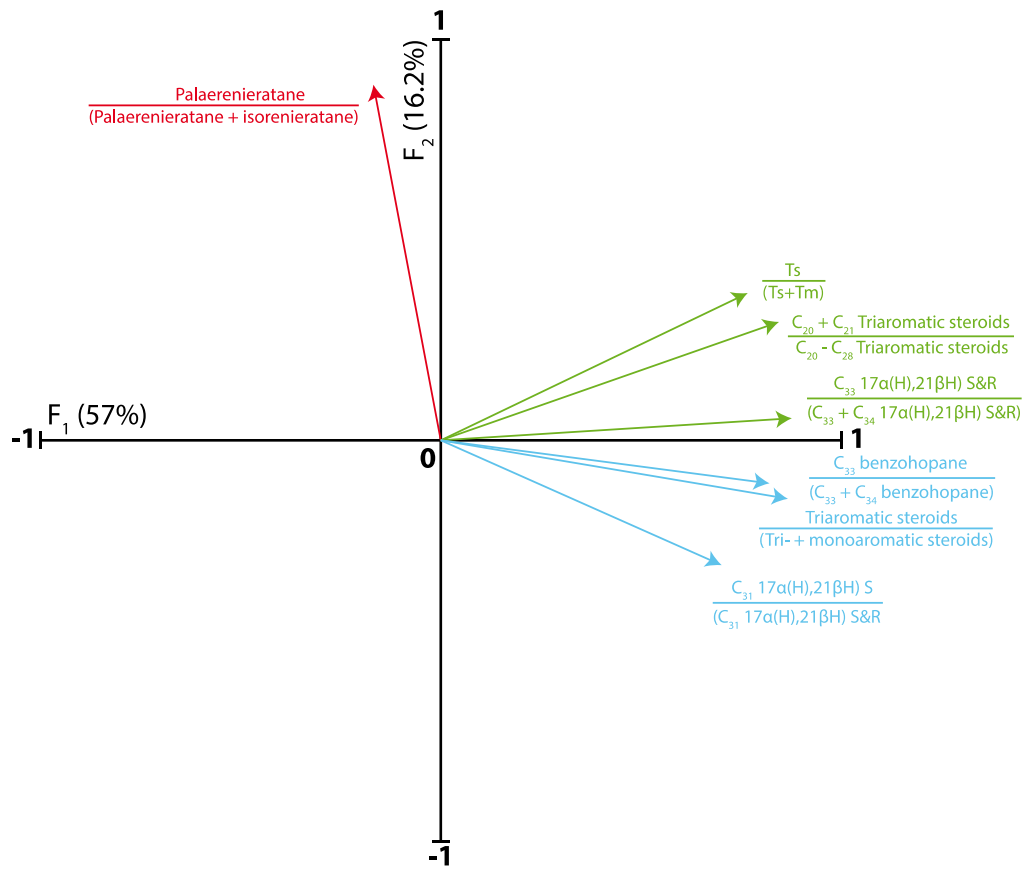
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Factor loadings for the PCA



Variables used for the PCA.

Sample ID	Location (See Fig. 1)	Ts/(Ts+Tm)	C ₃₁ 17 α (H),21 β (H) S/(S+R)	C ₃₃ 17 α (H),21 β (H) S+R/(C ₃₃ 17 α (H),21 β (H) S+R + C ₃₄ 17 α (H),21 β (H) S+R)	C ₃₃ Benzohopane/(C ₃₄ +C ₃₃ benzohopane)	Triaromatic steroids/(Tri- + monoaromatic steroids)	Triaromatic steroids (C ₂₀ +C ₂₁)/(C ₂₀ -C ₂₈)	Palaerenieratane/(Palaerenieratane + isorenieratane)
11SZ-10-17B/B	2	0.08	0.20	0.56	0.65	0.67	0.03	0.51
11SZ-10-21B	2	0.18	0.18	0.61	0.61	0.42	0.05	0.62
11SZ-14-01	2	0.15	0.31	0.38	0.44	0.84	0.02	0.70
11SZ-04-13	2	0.13	0.20	0.50	0.68	0.52	0.05	0.38
11SZ-10-18B/B	2	0.36	0.17	0.54	0.68	0.64	0.03	0.60
TWC-8	4	0.62	0.48	0.81	1.00	0.93	0.56	1.00
TWC-18	4	0.77	0.53	0.77	0.00	1.00	0.52	1.00
TWC-28	4	0.70	0.46	0.83	1.00	1.00	0.61	0.88
TWC-50	4	0.60	0.43	0.82	1.00	1.00	0.61	1.00
TWC-103	4	0.54	0.50	0.77	1.00	1.00	0.69	0.00
TWC-108.5	4	0.51	0.48	0.77	1.00	1.00	0.59	0.00
TWC-110	4	0.52	0.44	0.78	1.00	1.00	0.58	0.00
TWC-120	4	0.56	0.45	0.77	1.00	1.00	0.56	0.00
TWC-125	4	0.55	0.46	0.81	1.00	1.00	0.47	0.00
901-15.6	1	0.37	0.57	0.71	1.00	1.00	0.06	0.00
912-0.2	1	0.25	0.52	0.57	0.00	1.00	0.00	0.00
914-3.5	1	0.16	0.60	0.69	1.00	1.00	0.03	0.00
914-4.5	1	0.11	0.59	0.69	1.00	1.00	0.08	0.00
921-1.0	1	0.23	0.53	0.67	0.75	1.00	0.04	0.00
912-24.0	1	0.50	0.59	0.76	1.00	0.73	0.13	1.00
07CYA-Z019-07	3	0.18	0.39	0.29	0.45	0.36	0.03	0.70
07CYA-Z019-09	3	0.19	0.39	0.30	0.46	0.37	0.06	0.68
07CYA-Z019-11	3	0.18	0.37	0.33	0.47	0.47	0.12	0.62
07CYA-Z040-07	3	0.18	0.38	0.45	0.30	0.21	0.05	0.44
07CYA-Z040-08	3	0.19	0.28	0.35	0.34	0.28	0.13	0.65
07CYA-Z040-10	3	0.13	0.15	0.47	0.39	0.36	0.19	0.66
07CYA-Z043-04A	3	0.24	0.13	0.65	0.49	0.19	0.10	0.76
07CYA-Z043-06	3	0.18	0.32	0.38	0.32	0.21	0.03	0.53
07CYA-Z044-02	3	0.20	0.24	0.49	0.37	0.19	0.06	0.62

07CYA Z044-03	3	0.13	0.32	0.45	0.45	0.19	0.05	0.00
07CYA-Z044-09	3	0.61	0.15	0.51	0.22	0.00	0.00	0.00
07CYA-Z044-10	3	0.18	0.29	0.38	0.30	0.26	0.03	0.78
07CYA-Z044-12	3	0.08	0.19	0.47	0.40	0.37	0.15	0.65
07CYA-Z044-14	3	0.19	0.23	0.47	0.28	0.19	0.13	0.77
07CYA-Z044-15	3	0.10	0.29	0.38	0.42	0.16	0.15	0.00
1305-HL4	B	0.23	0.43	0.41	0.45	0.18	0.07	0.69
1308-HL4	E	0.24	0.44	0.39	0.31	0.43	0.07	0.69
1313-HL2	G	0.21	0.42	0.43	0.47	0.40	0.07	0.68
1303-H1	C	0.12	0.26	0.43	0.00	0.44	0.03	0.59
1303-H1	C	0.25	0.40	0.43	0.40	0.41	0.03	0.63
1303-H2	C	0.16	0.26	0.41	0.22	0.41	0.03	0.60
1303-H2	C	0.14	0.31	0.37	0.00	0.40	0.04	0.61
1303-H2	C	0.19	0.23	0.41	0.22	0.32	0.00	0.60
1303-H3	C	0.21	0.35	0.37	0.42	0.32	0.02	0.69
1303-H3	C	0.23	0.38	0.40	0.36	0.32	0.03	0.66
1303-H4	C	0.23	0.38	0.41	0.36	0.34	0.04	0.66
1303-H5	C	0.22	0.39	0.48	0.35	0.36	0.04	0.81
1303-LDC2	C	0.30	0.15	0.00	0.00	0.49	0.00	1.00
1303-LDC2	C	0.23	0.20	0.00	0.00	0.46	0.00	0.00
1303-DC6	C	0.18	0.34	0.43	0.00	0.26	0.00	0.00
1303-DC6	C	0.19	0.32	0.45	0.37	0.30	0.03	0.00
1303-H6	C	0.30	0.37	0.00	0.00	0.30	0.00	0.00

A value of 0 was assigned if a variable could not be determined because the compounds were not detected (e.g. palaerenieratane and isorenieratane were absent in many samples from Anticosti and Bathurst Islands).