Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Ternary Diagram | Elemental Ratios

X-Ray Fluorescence Spectrum Viewer

Process Data | Plot Spectrum | Plot

Choose Spectra

Browse... No file selected

First, load data, must be v24 CSV format

Project Name

Element:

(Fe) Iron

Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Terna

X-Ray Fluorescence Spectrum Viewe

Process Data | Plot Spectrum | Plot

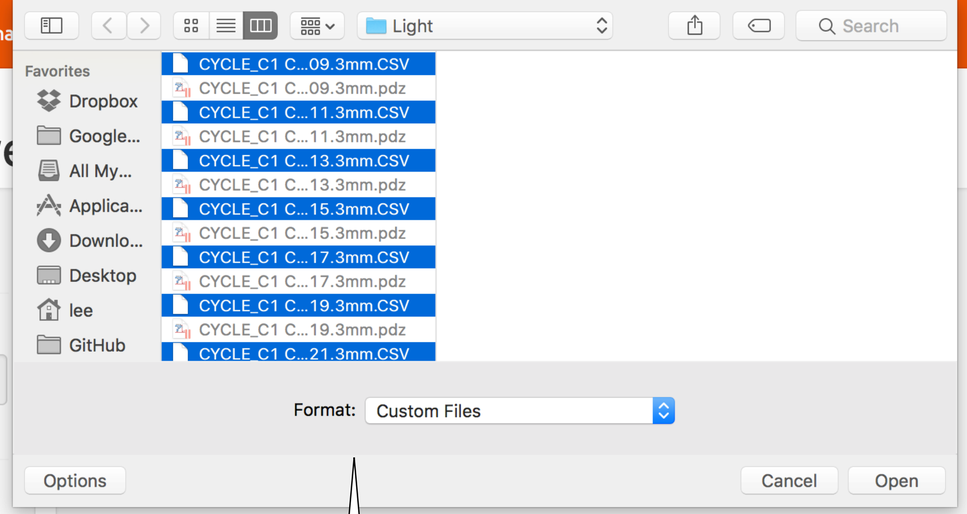
Choose Spectra

Browse... No file selected

Project Name

Element:

(Fe) Iron



There is no limit, here we will use ~2,000 files

Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Ternary Diagram | Elemental Ratios

X-Ray Fluorescence Spectrum Viewer

Process Data | Plot Spectrum | Plot

Choose Spectra

Browse... 2026 files

Upload complete

Project Name

Element:

(Fe) Iron

You should see a little window show up down here

Processing Data

Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Ternary Diagram | Elemental Ratios

X-Ray Fluorescence Spectrum Viewer

Process Data | Plot Spectrum | Plot

Choose Spectra

Browse... 2026 files

Upload complete

Project Name

RSP15B

Element:

(Fe) Iron

You can add a name to the project here to help streamline the saving of plots

Enter Values | Table

Elemental lines to show:

- [x] Spectrum
- [ ] Ne.K.alpha
- [ ] Na.K.alpha
- [ ] Mg.K.alpha
- [ ] Al.K.alpha
- [ ] Si.K.alpha
- [ ] P.K.alpha
- [ ] S.K.alpha
- [ ] Cl.K.alpha
- [ ] Ar.K.alpha
- [ ] K.K.alpha
- [x] Ca.K.alpha
- [ ] Sc.K.alpha
- [x] Ti.K.alpha
- [ ] V.K.alpha
- [ ] Cr.K.alpha
- [ ] Mn.K.alpha
- [x] Fe.K.alpha
- [ ] Co.K.alpha
- [ ] Ni.K.alpha
- [x] Cu.K.alpha
- [x] Zn.K.alpha
- [ ] Ga.K.alpha
- [ ] Ge.K.alpha
- [ ] As.K.alpha
- [ ] Se.K.alpha
- [ ] Br.K.alpha
- [ ] Kr.K.alpha
- [ ] Rb.K.alpha
- [ ] Sr.K.alpha
- [ ] Y.K.alpha
- [ ] Zr.K.alpha
- [ ] Nb.K.alpha
- [ ] Mo.K.alpha
- [ ] Mo.L.alpha
- [ ] Mo.L.beta

After some time, you will see a table show up in the Counts tab

Spectral Lines | Add Categories

Show 10 entries Search:

	Spectrum	Ca.K.alpha	Ti.K.alpha	Fe.K.alpha	Cu.K.alpha	Zn.K.alpha	Pb.L.alpha
1	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00309.3mm.CSV	959.693183052729	40.7689085390009	428.098268071482	142.237825667004	140.968433852405	318.370061344596
2	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00311.3mm.CSV	897.427041705456	40.0105705718379	427.867469559737	129.840648464687	133.038856413157	303.87921192859
3	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00313.3mm.CSV	480.176303686001	45.2694795180334	443.314484238687	133.632338300502	137.951567591735	318.86462958405
4	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00315.3mm.CSV	510.625221628392	46.4894145086868	442.589117487488	132.874000333339	134.110420931974	313.902461581527
5	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00317.3mm.CSV	497.799418618549	43.1593216963625	408.233110453409	132.016748718285	136.270035577591	312.847382670692
6	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00319.3mm.CSV	440.000877034345	41.4942752902003	414.695468782276	133.79719438032	136.566776521263	307.423617644678
7	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00321.3mm.CSV	399.462767007089	45.7310765415239	465.833824741831	133.764223164356	135.511697610428	309.171092090749
8	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00323.3mm.CSV	414.893296078057	46.1267311330872	526.368977251015	134.423647483629	135.973294633918	310.81965288893
9	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00325.3mm.CSV	424.669261611267	50.0832770487201	578.628354553333	136.962431112826	136.319492401536	314.759713196581
10	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00327.3mm.CSV	421.421596838852	49.2095398256845	588.338377654616	135.000643762992	137.242686448517	321.485841253157

Showing 1 to 10 of 2,026 entries

Previous 1 2 3 4 5 … 203 Next

Enter Values | Table

Elemental lines to

- [x] Spectrum
- [ ] Ne.K.alpha
- [ ] Na.K.alpha
- [ ] Mg.K.alpha
- [ ] Al.K.alpha
- [ ] Si.K.alpha
- [ ] P.K.alpha
- [ ] S.K.alpha
- [ ] Cl.K.alpha
- [ ] Ar.K.alpha
- [ ] K.K.alpha
- [x] Ca.K.alpha
- [ ] Sc.K.alpha
- [x] Ti.K.alpha
- [ ] V.K.alpha
- [ ] Cr.K.alpha
- [ ] Mn.K.alpha
- [x] Fe.K.alpha
- [ ] Co.K.alpha
- [ ] Ni.K.alpha
- [x] Cu.K.alpha
- [x] Zn.K.alpha
- [ ] Ga.K.alpha
- [ ] Ge.K.alpha
- [ ] As.K.alpha
- [ ] Se.K.alpha
- [ ] Br.K.alpha
- [ ] Kr.K.alpha
- [ ] Rb.K.alpha
- [ ] Sr.K.alpha
- [ ] Y.K.alpha
- [ ] Zr.K.alpha
- [ ] Nb.K.alpha
- [ ] Mo.K.alpha
- [ ] Mo.L.alpha
- [ ] Mo.L.beta

Go to “Add Categories” to augment the data with other information

Spectral Lines | Add Categories

	Spectrum	Qualitative	Depth
1	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00309.3mm.CSV	a	0
2	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00311.3mm.CSV	b	0
3	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00313.3mm.CSV	c	0
4	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00315.3mm.CSV	NULL	0
5	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00317.3mm.CSV	NULL	0
6	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00319.3mm.CSV	NULL	0
7	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00321.3mm.CSV	NULL	0
8	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00323.3mm.CSV	NULL	0
9	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00325.3mm.CSV	NULL	0
10	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00327.3mm.CSV	NULL	0
11	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00329.3mm.CSV	NULL	0
12	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00331.3mm.CSV	NULL	0
13	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00333.3mm.CSV	NULL	0
14	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00335.3mm.CSV	NULL	0
15	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00337.3mm.CSV	NULL	0
16	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00339.3mm.CSV	NULL	0
17	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00341.3mm.CSV	NULL	0
18	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00343.3mm.CSV	NULL	0
19	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00345.3mm.CSV	NULL	0
20	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00347.3mm.CSV	NULL	0
21	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00349.3mm.CSV	NULL	0
22	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00351.3mm.CSV	NULL	0
23	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00353.3mm.CSV	NULL	0
24	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00355.3mm.CSV	NULL	0
25	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00357.3mm.CSV	NULL	0
26	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00359.3mm.CSV	NULL	0
27	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00361.3mm.CSV	NULL	0
28	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00363.3mm.CSV	NULL	0
29	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00365.3mm.CSV	NULL	0
30	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00367.3mm.CSV	NULL	0
31	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00369.3mm.CSV	NULL	0
32	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00371.3mm.CSV	NULL	0
33	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00373.3mm.CSV	NULL	0
34	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00375.3mm.CSV	NULL	0
35	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00377.3mm.CSV	NULL	0
36	CYCLE_C1 COREID_RSP15B He 1000-0120 DEPTH002CYCLE_C1 COREID_RSP15-B He 1000-0120 DEPTH_305374.5mm.CSV	NULL	0
37	CYCLE_C1 COREID_RSP15B He 1000-0120 DEPTH004CYCLE_C1 COREID_RSP15-B He 1000-0120 DEPTH_305372.5mm.CSV	NULL	0
38	CYCLE_C1 COREID_RSP15B He 1000-0120 DEPTH006CYCLE_C1 COREID_RSP15-B He 1000-0120 DEPTH_305370.5mm.CSV	NULL	0
39	CYCLE_C1 COREID_RSP15B He 1000-0120 DEPTH008CYCLE_C1 COREID_RSP15-B He 1000-0120 DEPTH_305368.5mm.CSV	NULL	0
40	CYCLE_C1 COREID_RSP15B He 1000-0120 DEPTH010CYCLE_C1 COREID_RSP15-B He 1000-0120 DEPTH_305366.5mm.CSV	NULL	0
41	CYCLE_C1 COREID_RSP15B He 1000-0120 DEPTH012CYCLE_C1 COREID_RSP15-B He 1000-0120 DEPTH_305364.5mm.CSV	NULL	0

Enter Values | Table

Elemental lines to show:

- [x] Spectrum
- [ ] Ne.K.alpha
- [ ] Na.K.alpha
- [ ] Mg.K.alpha
- [ ] Al.K.alpha
- [ ] Si.K.alpha
- [ ] P.K.alpha
- [ ] S.K.alpha
- [ ] Cl.K.alpha
- [ ] Ar.K.alpha
- [ ] K.K.alpha
- [x] Ca.K.alpha
- [ ] Sc.K.alpha
- [x] Ti.K.alpha
- [ ] V.K.alpha
- [ ] Cr.K.alpha
- [ ] Mn.K.alpha
- [x] Fe.K.alpha
- [ ] Co.K.alpha
- [ ] Ni.K.alpha
- [x] Cu.K.alpha
- [x] Zn.K.alpha
- [ ] Ga.K.alpha
- [ ] Ge.K.alpha
- [ ] As.K.alpha
- [ ] Se.K.alpha
- [ ] Br.K.alpha
- [ ] Kr.K.alpha
- [ ] Rb.K.alpha
- [ ] Sr.K.alpha
- [ ] Y.K.alpha
- [ ] Zr.K.alpha
- [ ] Nb.K.alpha
- [ ] Mo.K.alpha
- [ ] Mo.L.alpha
- [ ] Mo.L.beta

Spectral Lines | Add Categories

	Spectrum	Qualitative	Depth
1	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00309.3mm.CSV	a	6
2	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00311.3mm.CSV	b	8
3	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00313.3mm.CSV	c	10
4	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00315.3mm.CSV	NULL	12
5	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00317.3mm.C	NULL	14
6	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00319.3mm.C	NULL	16
7	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00321.3mm.C	NULL	18
8	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00323.3mm.C	NULL	20
9	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00325.3mm.C	NULL	22
10	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00327.3mm.CSV	NULL	24
11	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00329.3mm.CSV	NULL	26
12	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00331.3mm.CSV	NULL	28
13	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00333.3mm.CSV	NULL	30
14	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00335.3mm.CSV	NULL	32
15	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00337.3mm.CSV	NULL	34
16	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00339.3mm.CSV	NULL	36
17	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00341.3mm.CSV	NULL	38
18	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00343.3mm.CSV	NULL	40
19	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00345.3mm.CSV	NULL	42
20	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00347.3mm.CSV	NULL	44
21	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00349.3mm.CSV	NULL	46
22	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00351.3mm.CSV	NULL	48
23	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00353.3mm.CSV	NULL	50
24	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00355.3mm.CSV	NULL	52
25	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00357.3mm.CSV	NULL	54
26	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00359.3mm.CSV	NULL	56
27	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00361.3mm.CSV	NULL	58
28	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00363.3mm.CSV	NULL	60
29	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00365.3mm.CSV	NULL	62
30	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00367.3mm.CSV	NULL	64
31	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00369.3mm.CSV	NULL	66
32	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00371.3mm.CSV	NULL	68
33	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00373.3mm.CSV	NULL	70
34	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00375.3mm.CSV	NULL	72
35	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00377.3mm.CSV	NULL	74
36	CYCLE_C1 COREID_RSP15B He 1000-0120 DEPTH002CYCLE_C1 COREID_RSP15-B He 1000-0120 DEPTH_305374.5mm.CSV	NULL	426
37	CYCLE_C1 COREID_RSP15B He 1000-0120 DEPTH004CYCLE_C1 COREID_RSP15-B He 1000-0120 DEPTH_305372.5mm.CSV	NULL	428
38	CYCLE_C1 COREID_RSP15B He 1000-0120 DEPTH006CYCLE_C1 COREID_RSP15-B He 1000-0120 DEPTH_305370.5mm.CSV	NULL	430
39	CYCLE_C1 COREID_RSP15B He 1000-0120 DEPTH008CYCLE_C1 COREID_RSP15-B He 1000-0120 DEPTH_305368.5mm.CSV	NULL	432
40	CYCLE_C1 COREID_RSP15B He 1000-0120 DEPTH010CYCLE_C1 COREID_RSP15-B He 1000-0120 DEPTH_305366.5mm.CSV	NULL	434
41	CYCLE_C1 COREID_RSP15B He 1000-0120 DEPTH012CYCLE_C1 COREID_RSP15-B He 1000-0120 DEPTH_305364.5mm.CSV	NULL	436

Here, I've added the depths for each assay

Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Ternary Diagram | Elemental Ratios

Enter Dates | Run Age Model | Age Results Tabl

Next, go to the Age Model tab

Age Input | Age Curve | Age Table

	Depth	14C Age	Sigma	CalCurve
1	0.00	0.00	0.00	intcal13
2	0.00	0.00	0.00	intcal13
3	0.00	0.00	0.00	intcal13
4	0.00	0.00	0.00	intcal13
5	0.00	0.00	0.00	intcal13
6	0.00	0.00	0.00	intcal13
7	0.00	0.00	0.00	intcal13
8	0.00	0.00	0.00	intcal13
9	0.00	0.00	0.00	intcal13
10	0.00	0.00	0.00	intcal13
11	0.00	0.00	0.00	intcal13
12	0.00	0.00	0.00	intcal13
13	0.00	0.00	0.00	intcal13
14	0.00	0.00	0.00	intcal13
15	0.00	0.00	0.00	intcal13
16	0.00	0.00	0.00	intcal13
17	0.00	0.00	0.00	intcal13
18	0.00	0.00	0.00	intcal13
19	0.00	0.00	0.00	intcal13
20	0.00	0.00	0.00	intcal13

Enter Dates | Run Age Model | Age Results Table

Age Input | Age Curve | Age Table

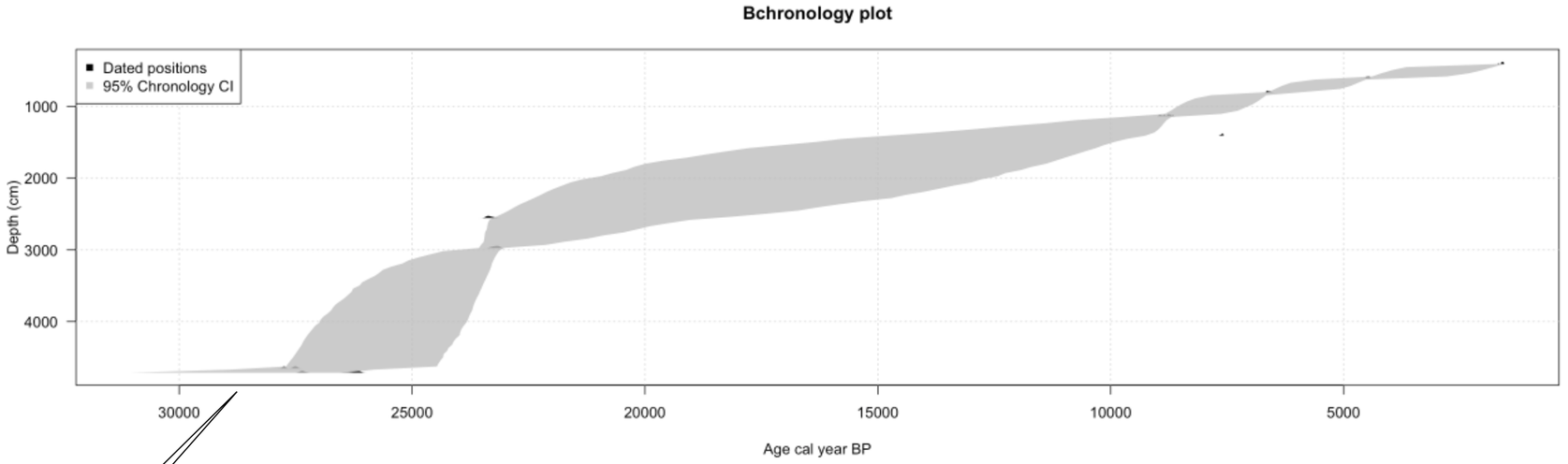
	Depth	14C Age	Sigma	CalCurve
1	405.00	1698.00	23.00	intcal13
2	605.00	4024.00	24.00	intcal13
3	805.00	5804.00	28.00	intcal13
4	1135.00	7942.00	27.00	intcal13
5	1405.00	6754.00	30.00	intcal13
6	2555.00	19364.00	47.00	intcal13
7	2975.00	19268.00	49.00	intcal13
8	4655.00	23251.00	73.00	intcal13
9	4655.00	23654.00	62.00	intcal13
10	4715.00	22037.00	94.00	intcal13
11	4715.00	23017.00	71.00	intcal13
12	0.00	0.00	0.00	intcal13
13	0.00	0.00	0.00	intcal13
14	0.00	0.00	0.00	intcal13
15	0.00	0.00	0.00	intcal13
16	0.00	0.00	0.00	intcal13
17	0.00	0.00	0.00	intcal13
18	0.00	0.00	0.00	intcal13
19	0.00	0.00	0.00	intcal13
20	0.00	0.00	0.00	intcal13

Add the depth, 14C age, and sigma for each date. You can choose a calibration curve to the right

Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Ternary Diagram | Elemental Ratios

Enter Dates | Run Age Model | Age Results Table

Age Input | Age Curve | Age Table



After some time, the Age Curve will appear in the named tab

Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Ternary Diagram | Elemental Ratios

K-Means

3

Colour

Cluster

Point Size

2

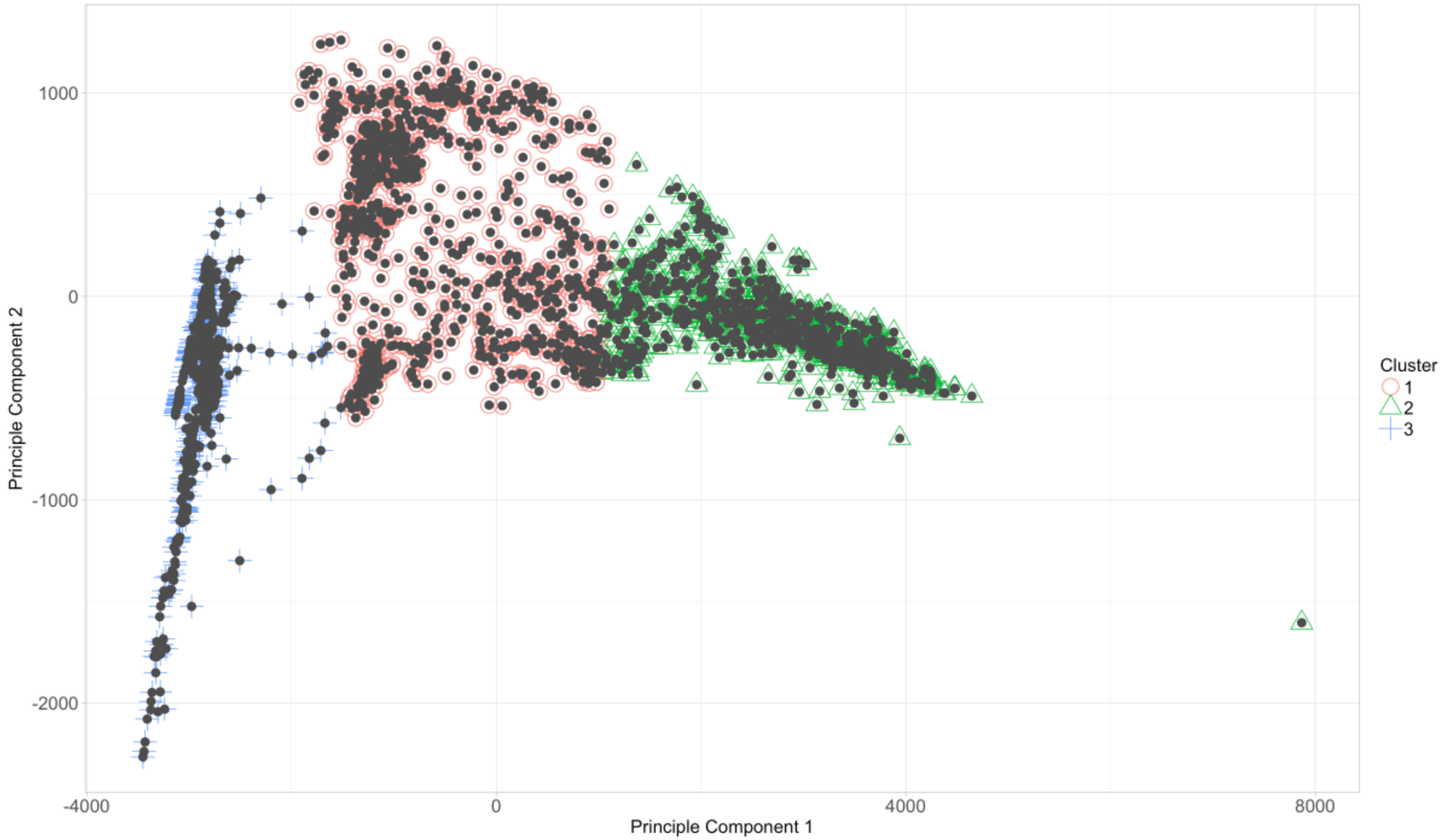
2

Elipse

Plot | Results

Go to PCA next to perform principle components analysis and/or k-means cluster analysis

Selected XRF Lines | Table



Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Ternary Diagram | Elemental Ratios

K-Means

3

Colour

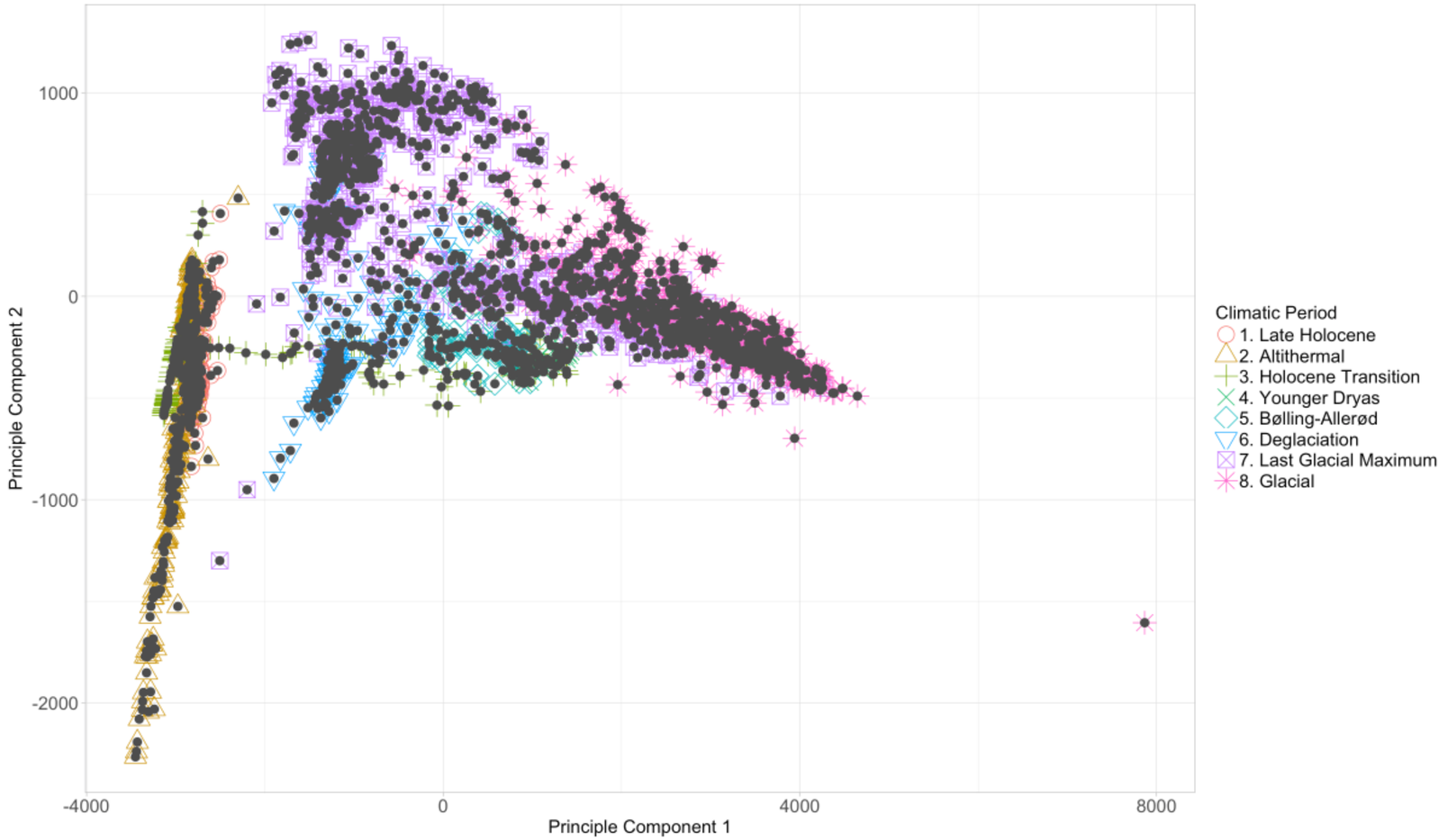
Climate

Black
Cluster
Climate
Qualitative
Quantitative

Plot | Results

You can color the points based on other values, like climatic period, cluster analysis, or other data you have added

Selected XRF Lines | Table



Enter Values | Table

Elemental lines to show:

- [x] Spectrum
- [ ] Ne.K.alpha
- [x] Na.K.alpha
- [x] Mg.K.alpha
- [x] Al.K.alpha
- [x] Si.K.alpha
- [x] P.K.alpha
- [x] S.K.alpha
- [x] Cl.K.alpha
- [ ] Ar.K.alpha
- [x] K.K.alpha
- [x] Ca.K.alpha
- [ ] Sc.K.alpha
- [x] Ti.K.alpha
- [ ] V.K.alpha
- [x] Cr.K.alpha
- [x] Mn.K.alpha
- [x] Fe.K.alpha
- [ ] Co.K.alpha
- [ ] Ni.K.alpha
- [ ] Cu.K.alpha
- [ ] Zn.K.alpha
- [ ] Ga.K.alpha
- [ ] Ge.K.alpha
- [ ] As.K.alpha
- [ ] Se.K.alpha
- [ ] Br.K.alpha
- [ ] Kr.K.alpha
- [ ] Rb.K.alpha
- [ ] Sr.K.alpha
- [ ] Y.K.alpha
- [ ] Zr.K.alpha
- [ ] Nb.K.alpha
- [ ] Mo.K.alpha
- [ ] Mo.L.alpha

To change variables for the PCA/ K-means model, go back to the Counts Tab and change the elements you use

Spectral Lines | Add Categories

Show 10 entries | Search:

	Spectrum	Na.K.alpha	Mg.K.alpha	Al.K.alpha	Si.K.alpha	P.K.alpha	S.K.alpha	Cl.K.alpha
	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00309.3mm.CSV	9.03411317402851	8.85277148622867	17.227460340985	163.652630435367	21.4477759843268	74.8446602373895	215.714180441903
	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00311.3mm.CSV	7.96254865521126	8.34171763879275	17.2439459489668	157.684840345954	21.0686070007453	74.1852359181173	197.266785110265
3	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00313.3mm.CSV	7.78120696741142	7.76472135942961	17.4912300686939	168.25211506229	18.6287370194383	73.5752684227906	197.31624193421
4	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00315.3mm.CSV	8.5890017585198	7.81417818337502	18.4803665476021	181.391144623788	18.7771074912746	77.2845302186964	205.938214908694
5	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00317.3mm.CSV	7.76472135942961	7.99551987117487	19.8816432260554	225.061520167586	18.9419635710926	82.1807557892922	195.222569720521
6	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00319.3mm.CSV	8.35820324677455	7.7152645354842	17.6560861485119	243.706742795006	18.6946794513656	73.0807001833364	195.354454584376
7	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00321.3mm.CSV	8.63845858246522	7.56689406364797	17.0461186531852	224.73180800795	19.0243916110016	71.7288803288285	194.958799992812
8	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00323.3mm.CSV	8.07794791108388	7.48446602373895	18.1176831720024	218.467276974865	18.744136275311	73.7401245026086	192.189217851869
9	CYCLE_C1 COREID_RSP15B He 0-0073 DEPTH_00325.3mm.CSV	8.67142979842882	7.79769257539322	19.8157007941282	204.833679173913	19.2551901227469	86.1867585288705	202.113553856915

Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Ternary Diagram | Elemental Ratios

K-Means

3

Colour

Climate

Point Size

2 15

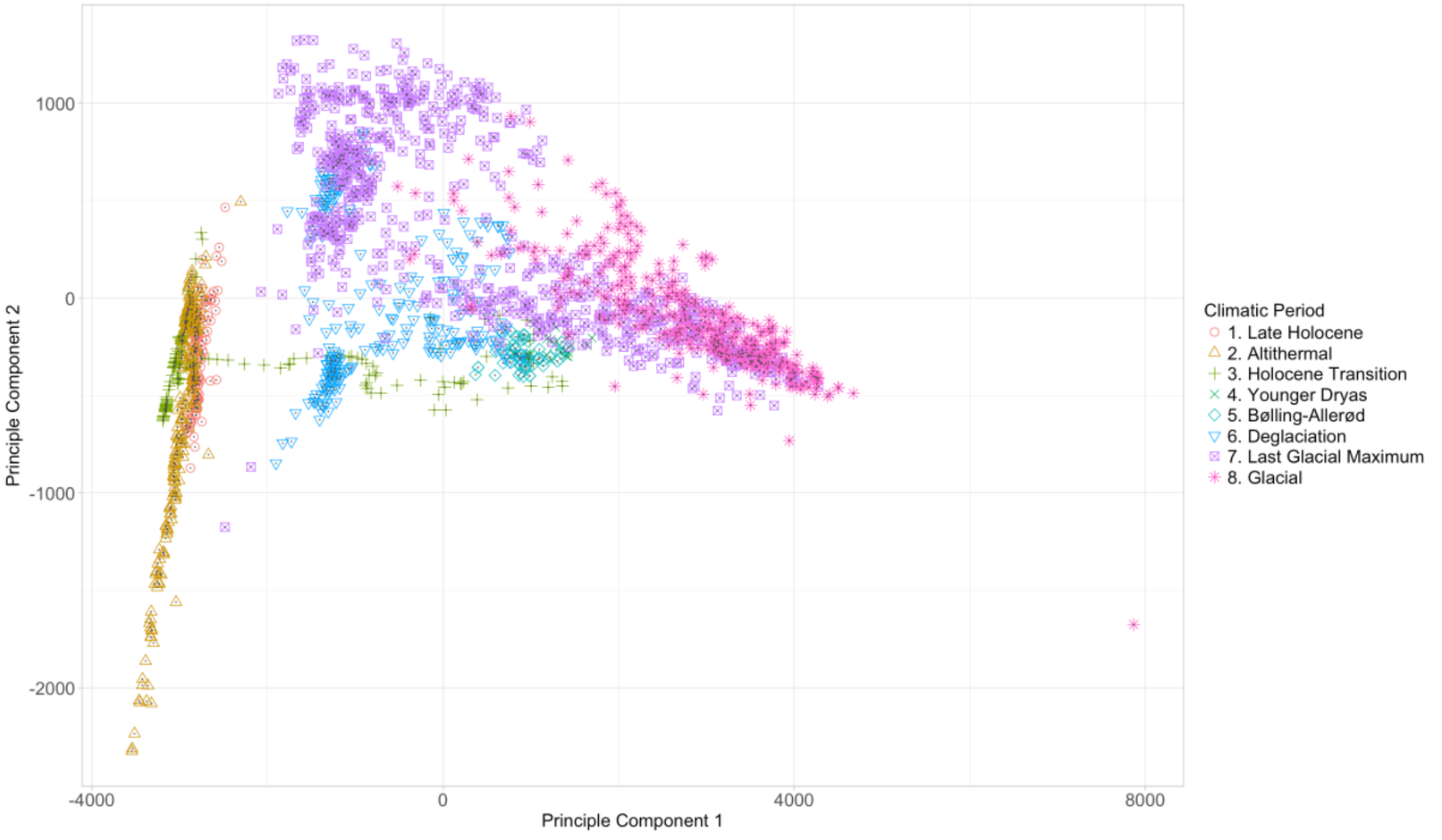
2 4 6 8 10 12 14 15

Elipse

Plot Results

You can also adjust the size of the points for clarity. Smaller for big data sets, bigger for small data sets

Selected XRF Lines | Table



K-Means

3

Colour

Climate

Point Size

2 15

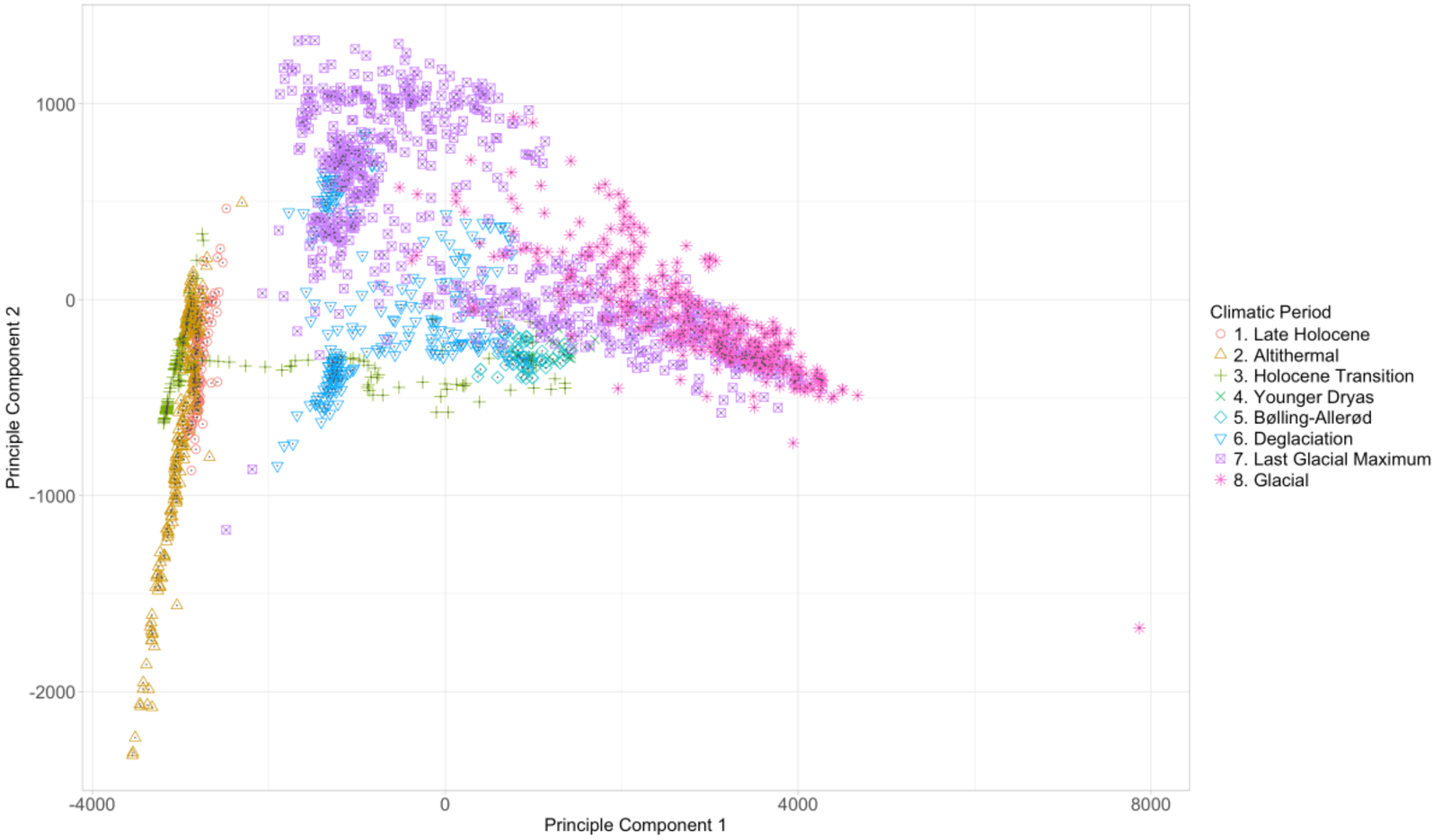
2 4 6 8 10 12 14 15

Elipse

Plot Results

Download the plot, and you will get a publication-ready tiff with the project name + plot type

Selected XRF Lines | Table



RSP15B_PCAPlot.tiff

Show All

K-Means

3

Colour

Climate

Point Size

2 15

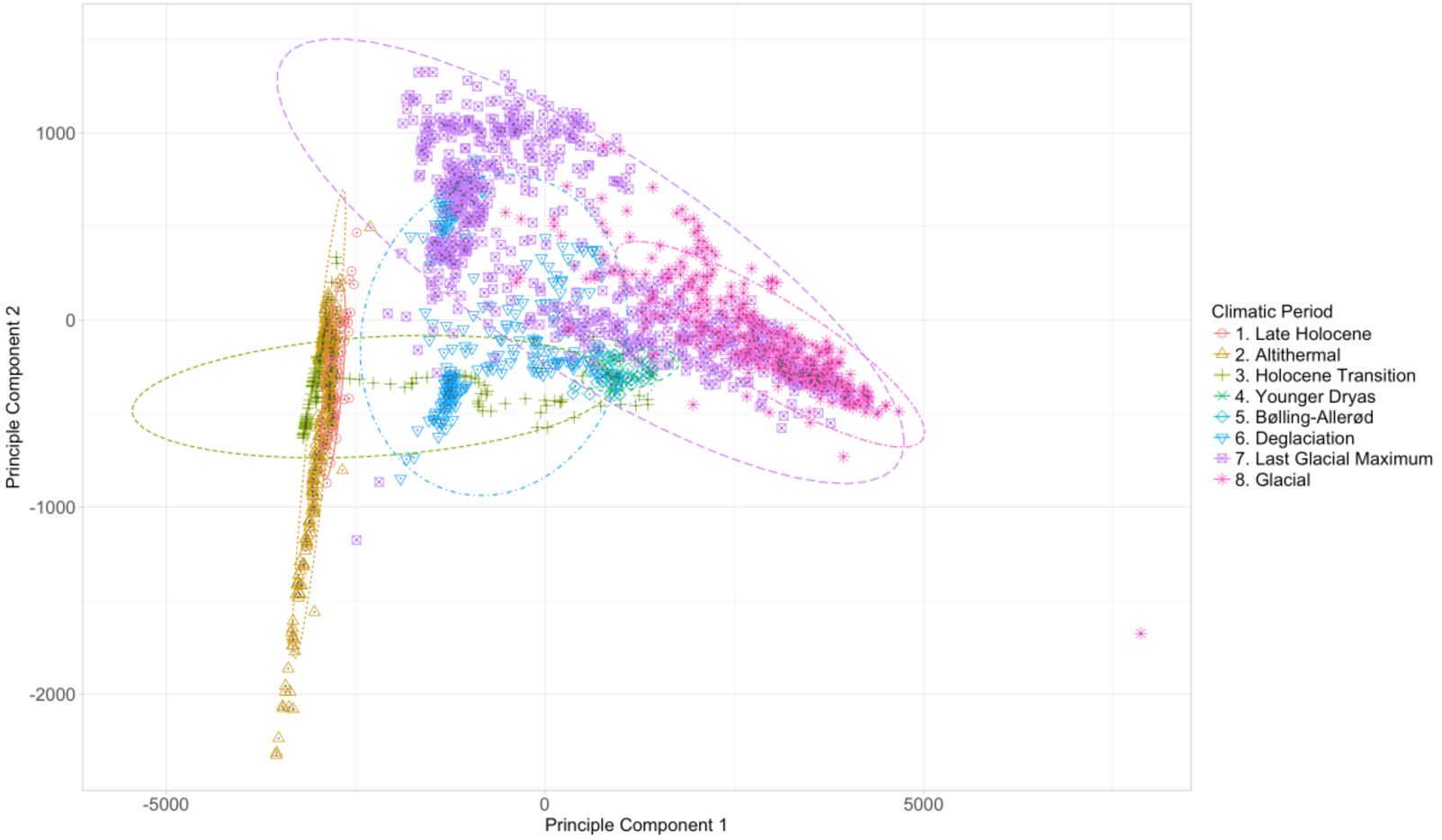
2 4 6 8 10 12 14 15

Elipse

Plot Results

You can add ellipses to the data as well

Selected XRF Lines | Table



RSP15B_PCAPlot.tiff

Show All

Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Ternary Diagram | Elemental Ratios

Create Plot

1 2 3 4 5

1 2 3 4 5

Element:

Fe.K.alpha

Ratio:

None

Time Series Type

Black

Smoothed Mean Average

1 50

1 6 11 16 21 26 31 36 41 46 50

Line Size

1 15

1 3 5 7 9 11 13 15

Point Size

1 5 15

1 3 5 7 9 11 13 15

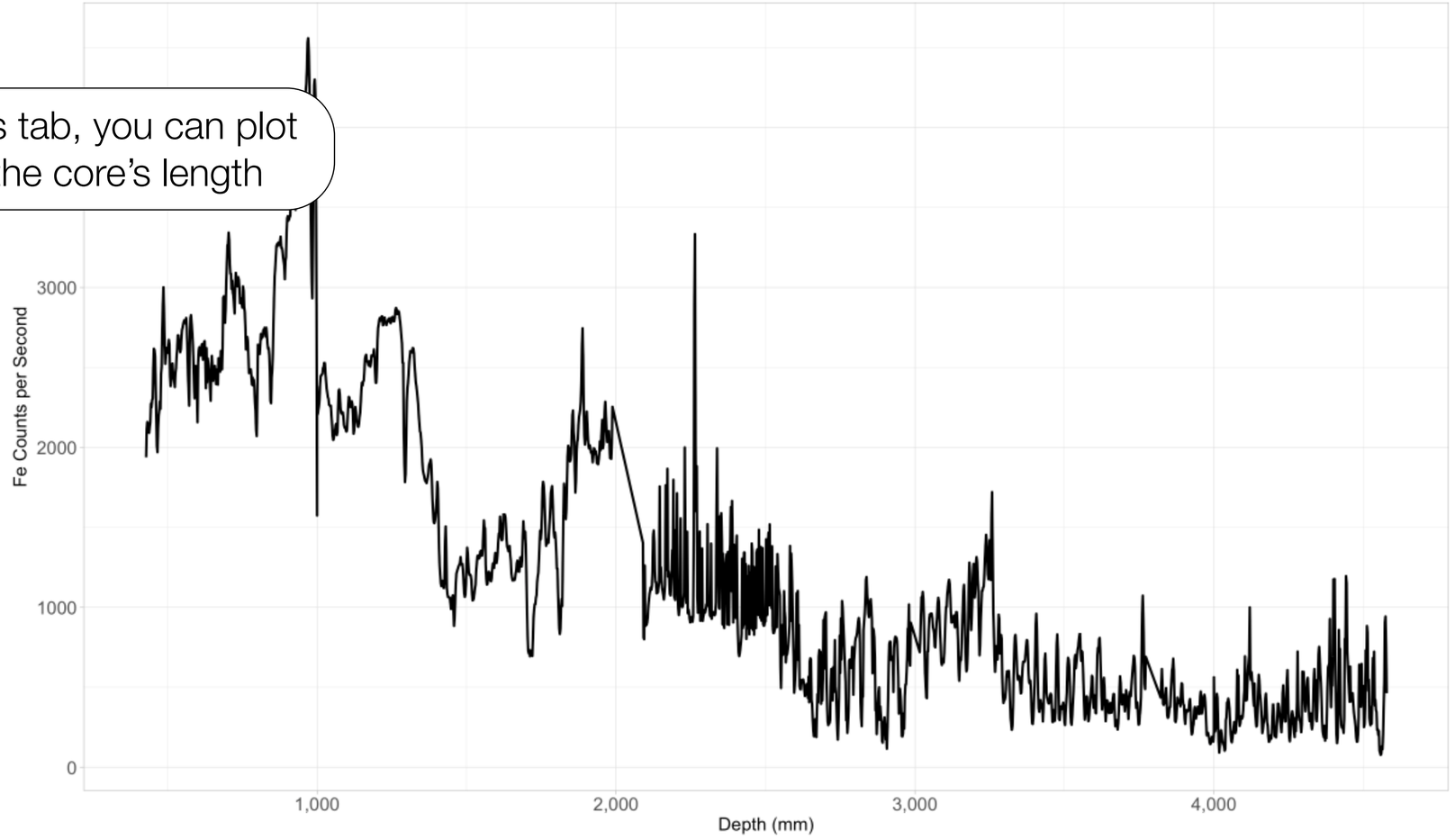
X Axis

Depth

mm
cm
m
inches

On the Timeseries tab, you can plot the data along the core's length

Time Series 1 | Time Series 2 | Time Series 3 | Time Series 4 | Time Series 5



RSP15B_PCAPlot.tiff

Show All

Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Ternary Diagram | Elemental Ratios

Create Plot

1 2 3 4 5

1 2 3 4 5

Element:

Fe.K.alpha

Ratio:

None

Time Series Type

Climate

Black
Smooth
Ramp
Cluster
Climate
Qualitative Point
Qualitative Line

Point Size

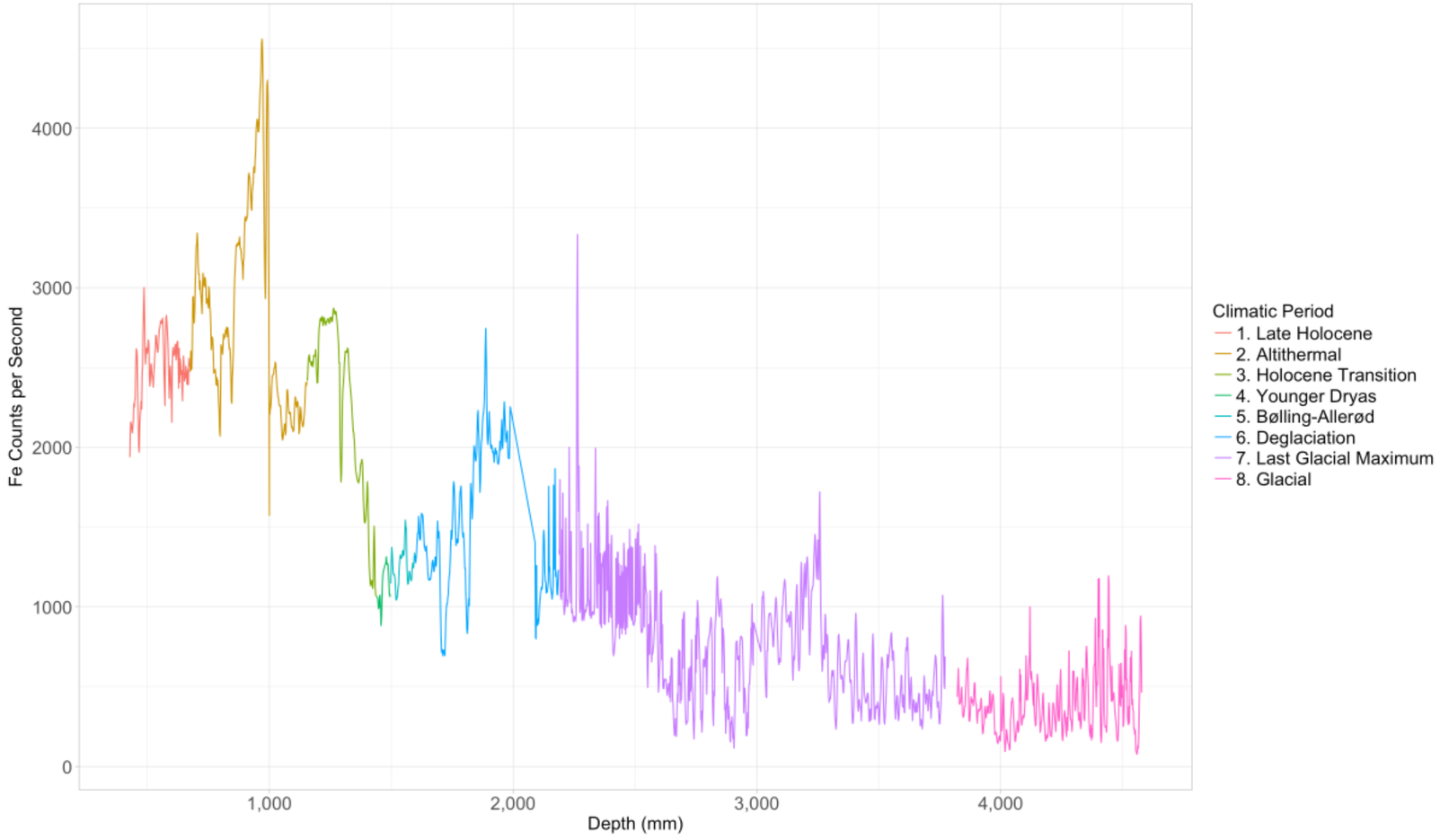
1 5 15

X Axis

Depth

mm
cm
m
inches

Time Series 1 | Time Series 2 | Time Series 3 | Time Series 4 | Time Series 5



As before, you can color based on Climate, Cluster Analysis, or a Qualitative attribute

RSP15B_PCAPlot.tiff

Show All

Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Ternary Diagram | Elemental Ratios

Create Plot

1 2 3 4 5

1 2 3 4 5

Element:

Fe.K.alpha

Ratio:

Ca.K.alpha

K.K.alpha
Ca.K.alpha
Sc.K.alpha
Ti.K.alpha
V.K.alpha
Cr.K.alpha
Mn.K.alpha

Line Size

1 15

1 3 5 7 9 11 13 15

Point Size

1 5

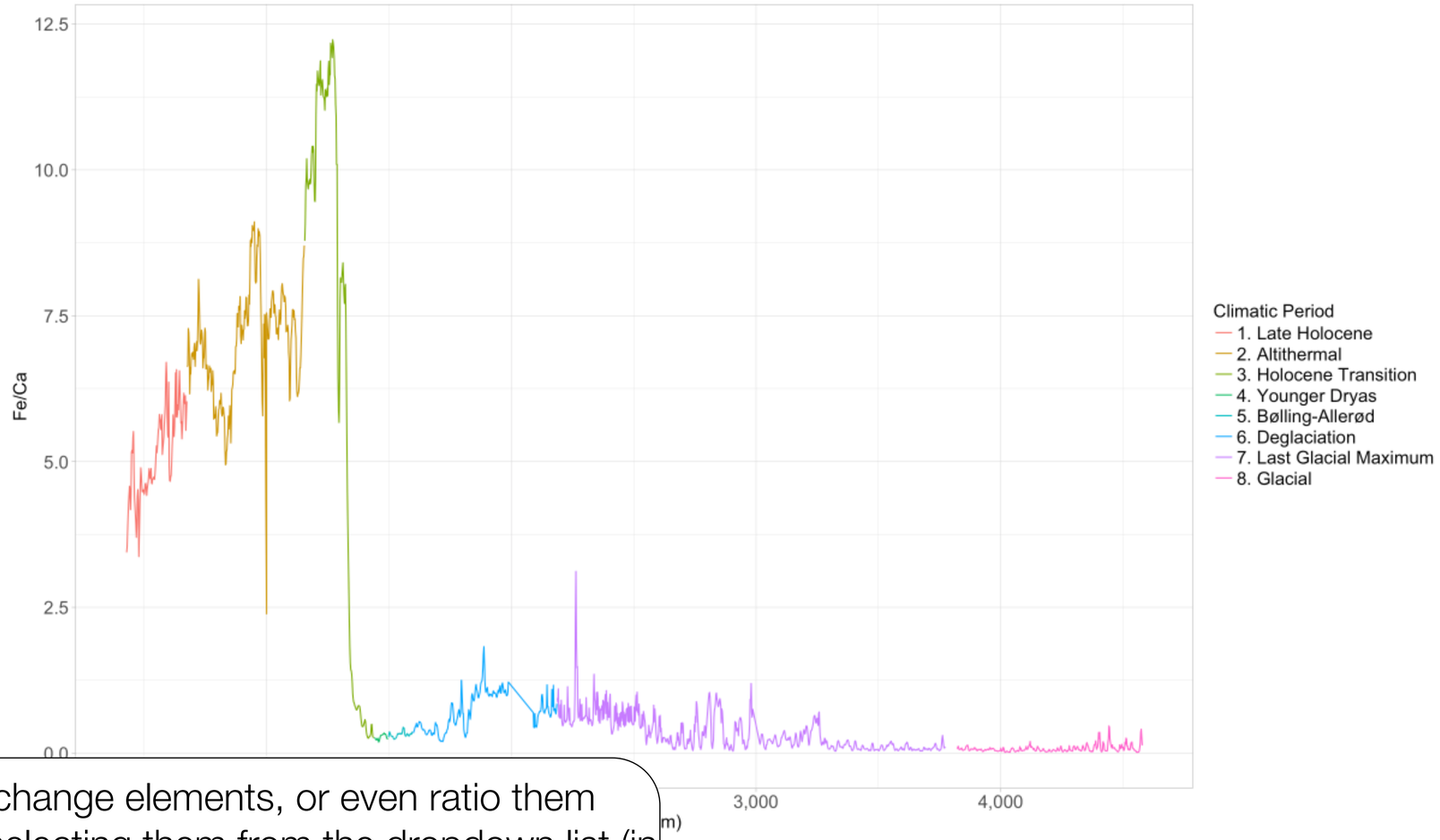
1 3 5 7 9 11

X Axis

Depth

mm
cm
m
inches

Time Series 1 | Time Series 2 | Time Series 3 | Time Series 4 | Time Series 5



You can change elements, or even ratio them together by selecting them from the dropdown list (in order of atomic number)

RSP15B_PCAPlot.tiff

Show All

Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Ternary Diagram | Elemental Ratios

Create Plot

1 2 3 4 5

1 2 3 4 5

Element:

Fe.K.alpha

Ratio:

Ca.K.alpha

Time Series Type

Climate

Smoothed Mean Average

1 50

1 6 11 16 21 26 31 36 41 46 50

Line Size

1 15

1 3 5 7 9 11 13 15

Point Size

1 5 15

1 3 5 7 9 11 13 15

X Axis

Age

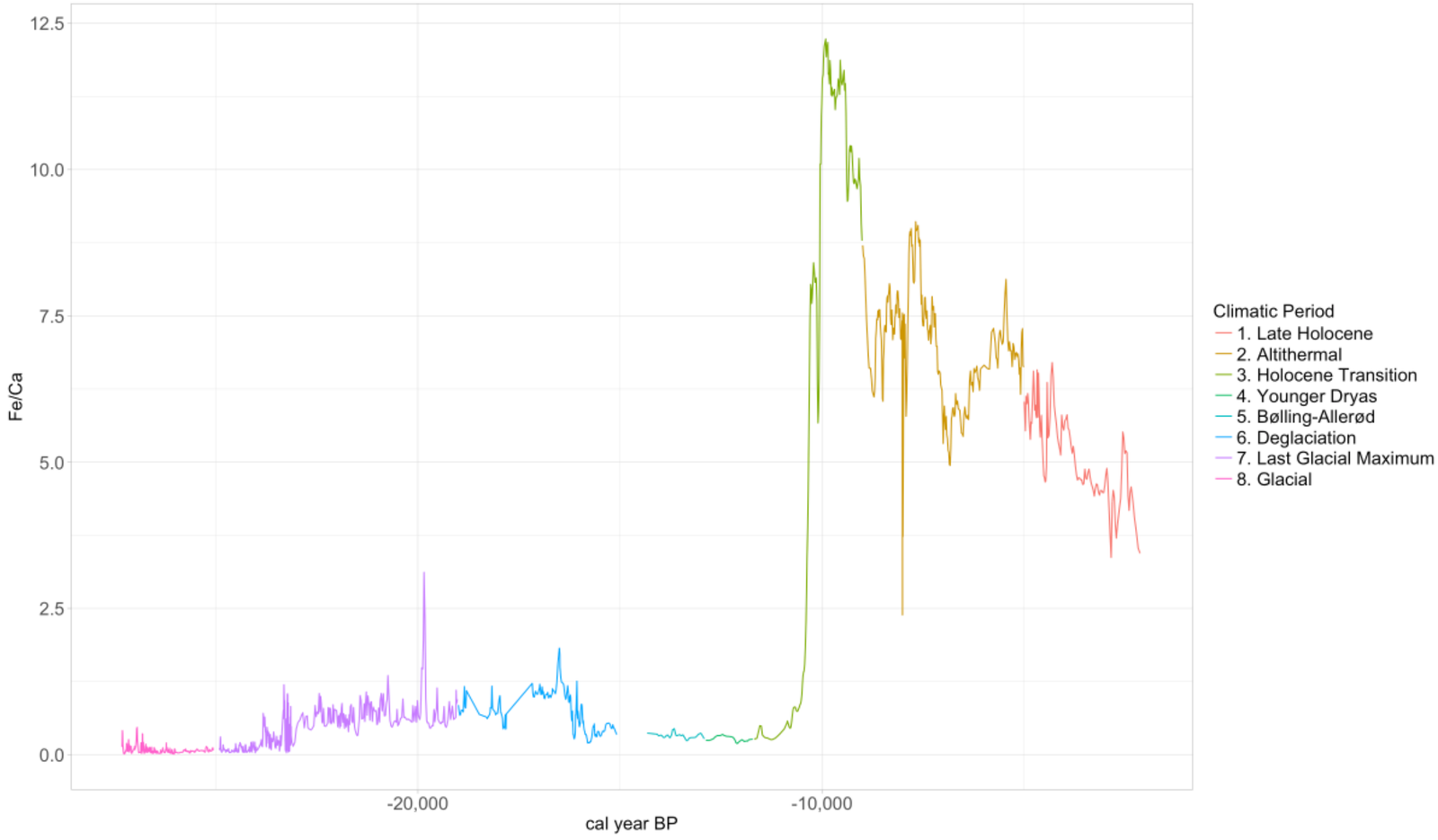
Depth

Age

m

inches

Time Series 1 | Time Series 2 | Time Series 3 | Time Series 4 | Time Series 5



Change the x-axis from Depth to Age (using the age model) here

RSP15B_PCAPlot.tiff

Show All

Create Plot

1 2 3 4 5

1 2 3 4 5

Element:

Fe.K.alpha

Ratio:

Ca.K.alpha

Time Series Type

Climate

Smoothed Mean Average

1 10

1 6 11 16 21 26 31 36 41 46 50

Add a smoothed-mean average here

Line Size

1 15

1 3 5 7 9 11 13 15

Point Size

1 5 15

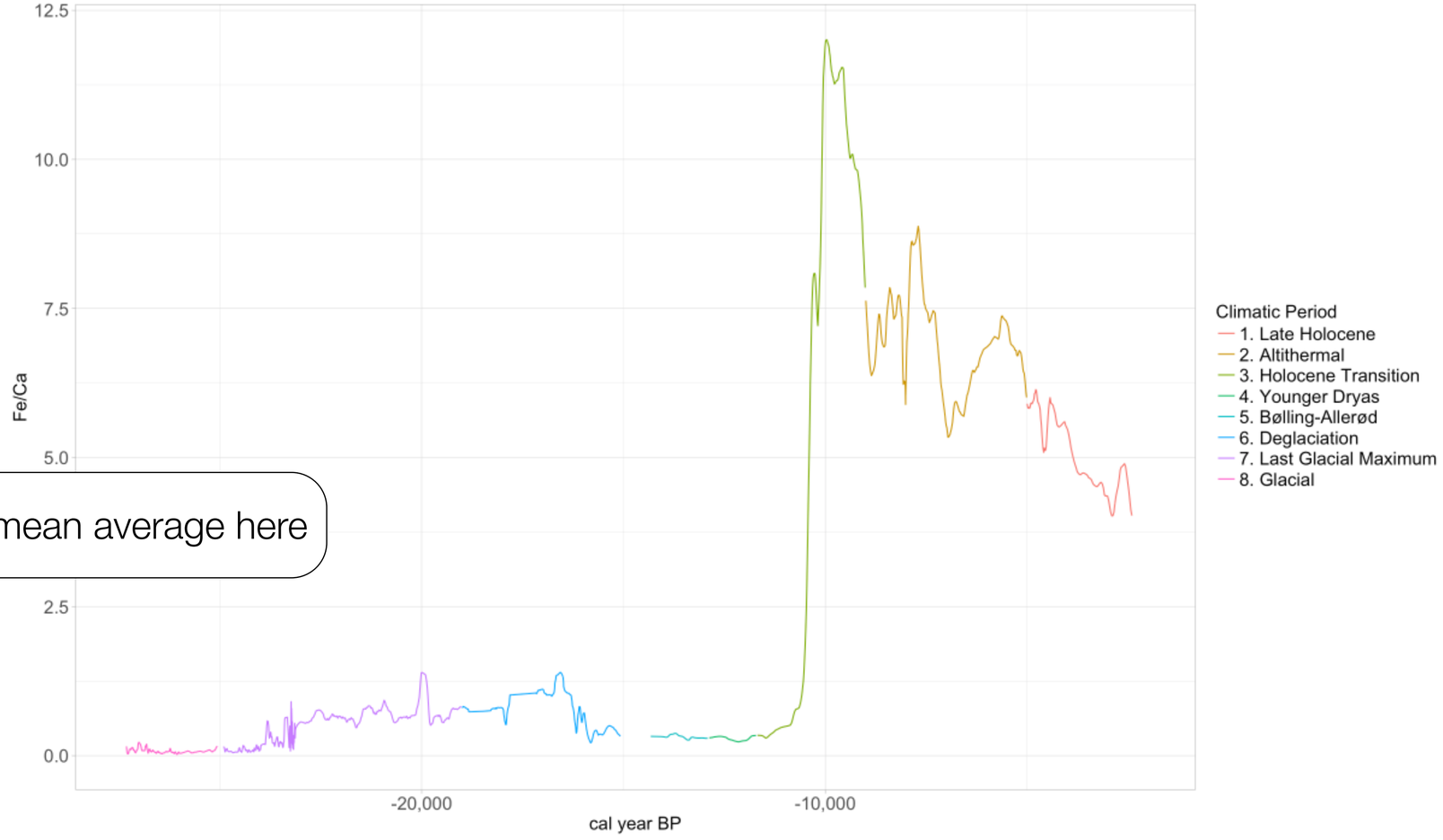
1 3 5 7 9 11 13 15

X Axis

Age

mm
cm
m
inches

Time Series 1 | Time Series 2 | Time Series 3 | Time Series 4 | Time Series 5



RSP15B_PCAPlot.tiff

Show All

Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Ternary Diagram | Elemental Ratios

Create Plot

1 2 3 4 5

1 2 3 4 5

You can work on up to 5 plots simultaneously

Element:

Mg.K.alpha

Ratio:

Ca.K.alpha

Time Series Type

Climate

Smoothed Mean Average

1 3 50

1 6 11 16 21 26 31 36 41 46 50

Line Size

1 15

1 3 5 7 9 11 13 15

Point Size

1 5 15

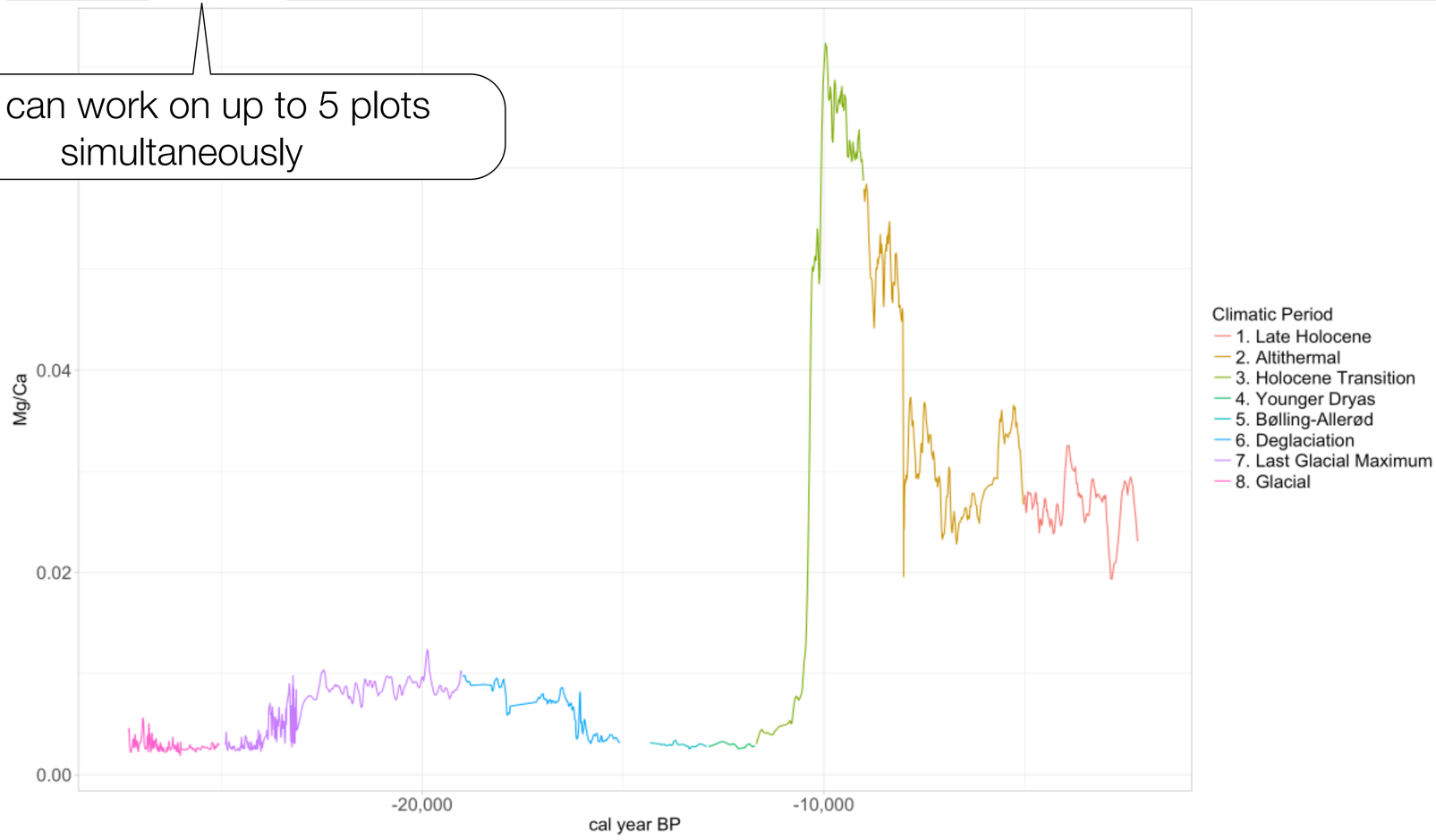
1 3 5 7 9 11 13 15

X Axis

Age

- mm
- cm
- m
- inches

Time Series 1 | Time Series 2 | Time Series 3 | Time Series 4 | Time Series 5



RSP15B_PCAPlot.tiff

Show All

Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Ternary Diagram | Elemental Ratios

Colour

Cluster

Ternary Diagrams are also available

Axis A

Al.K.alpha

Axis B

Si.K.alpha

Axis C

Ca.K.alpha

Density Contour

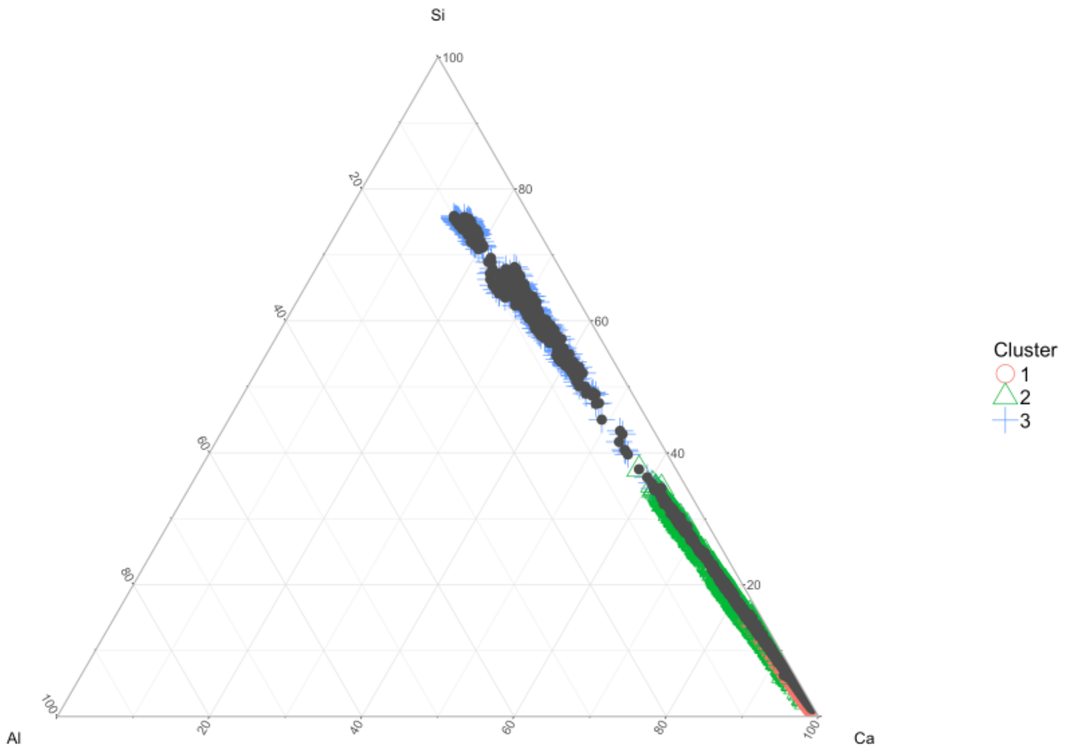
Normalize

Point Size

2 5 15

2 4 6 8 10 12 14 15

Plot



RSP15B_PCAPlot.tiff

Show All

Colour

Climate

- Black
- Cluster
- Climate
- Qualitative
- Quantitative

Si.K.alpha

As before, you can color points by different data types

Axis C

Ca.K.alpha

Density Contour

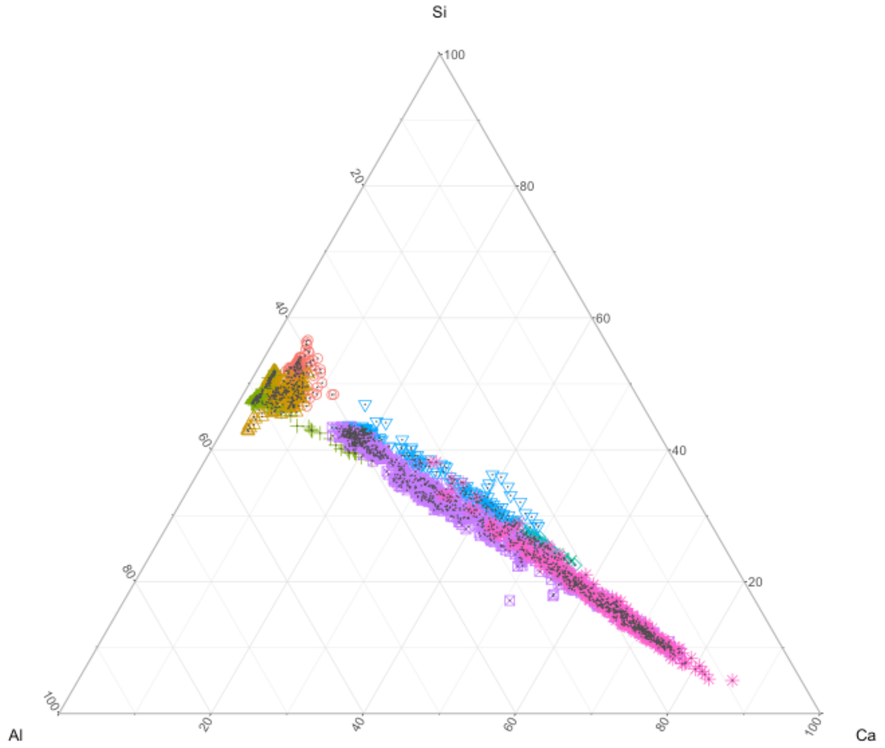
Normalize

Point Size

2 15

2 4 6 8 10 12 14 15

Plot



Climatic Period
- 1. Late Holocene
- 2. Altithermal
- 3. Holocene Transition
- 4. Younger Dryas
- 5. Bølling-Allerød
- 6. Deglaciation
- 7. Last Glacial Maximum
- 8. Glacial

RSP15B_PCAPlot.tiff

Show All

Colour

Climate

Axis A

Na.K.alpha

Axis B

K.K.alpha

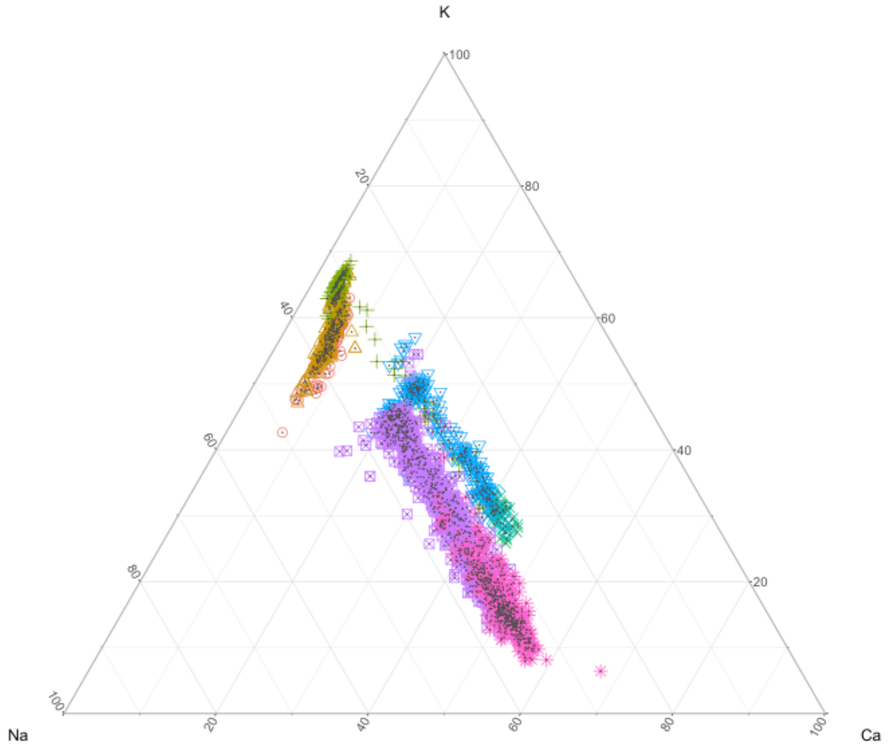
- Si.K.alpha
- P.K.alpha
- S.K.alpha
- Cl.K.alpha
- Ar.K.alpha
- K.K.alpha
- Ca.K.alpha
- Sc.K.alpha

Point Size

2 15

2 4 6 8 10 12 14 15

Plot



Climatic Period
- 1. Late Holocene
- 2. Altithermal
- 3. Holocene Transition
- 4. Younger Dryas
- 5. Bølling-Allerød
- 6. Deglaciation
- 7. Last Glacial Maximum
- 8. Glacial

Each axis can be changed to your preference as well

RSP15B_PCAPlot.tiff

Show All

Core Analysis | Spectrum | Counts | Age Model | PCA | Timeseries | Ternary Diagram | Elemental Ratios

Ratio Plot Type
Climate

Element A
Na.K.alpha

Element B
K.K.alpha

Element C
Mg.K.alpha

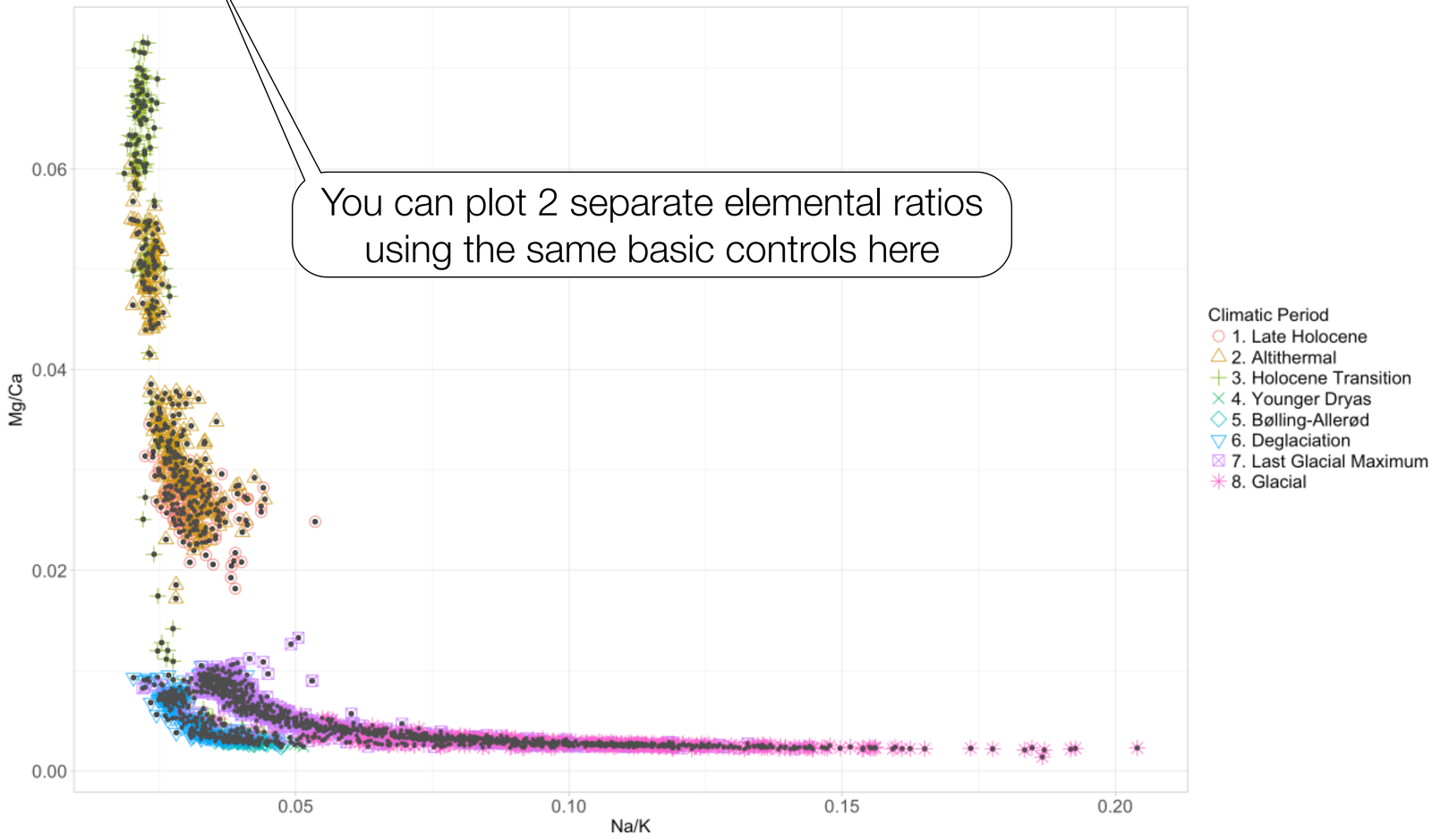
Element D
Ca.K.alpha

Point Size
2 3 15
2 4 6 8 10 12 14 15

Elipse

Plot

You can plot 2 separate elemental ratios using the same basic controls here



RSP15B_PCAPlot.tiff

Show All