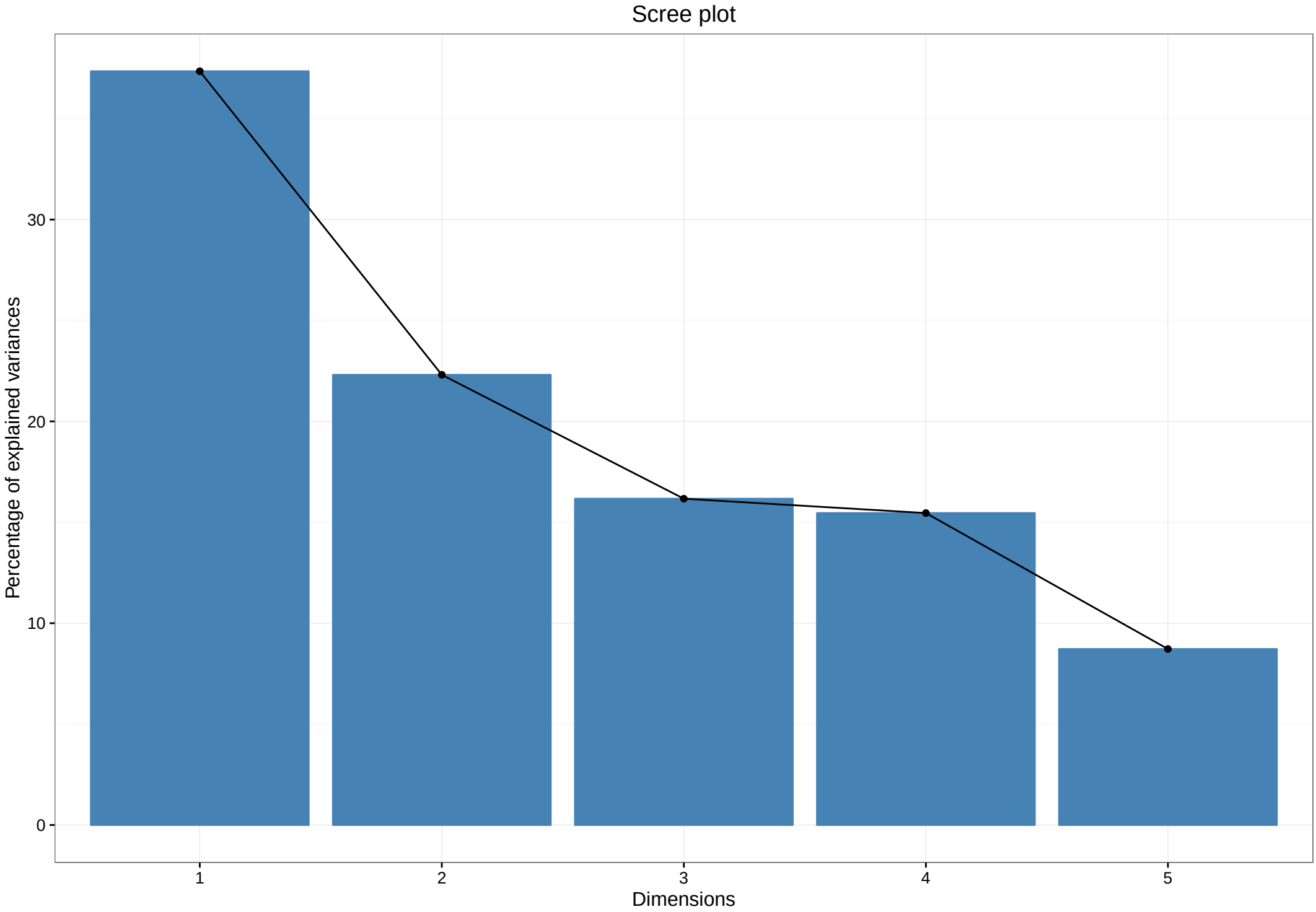
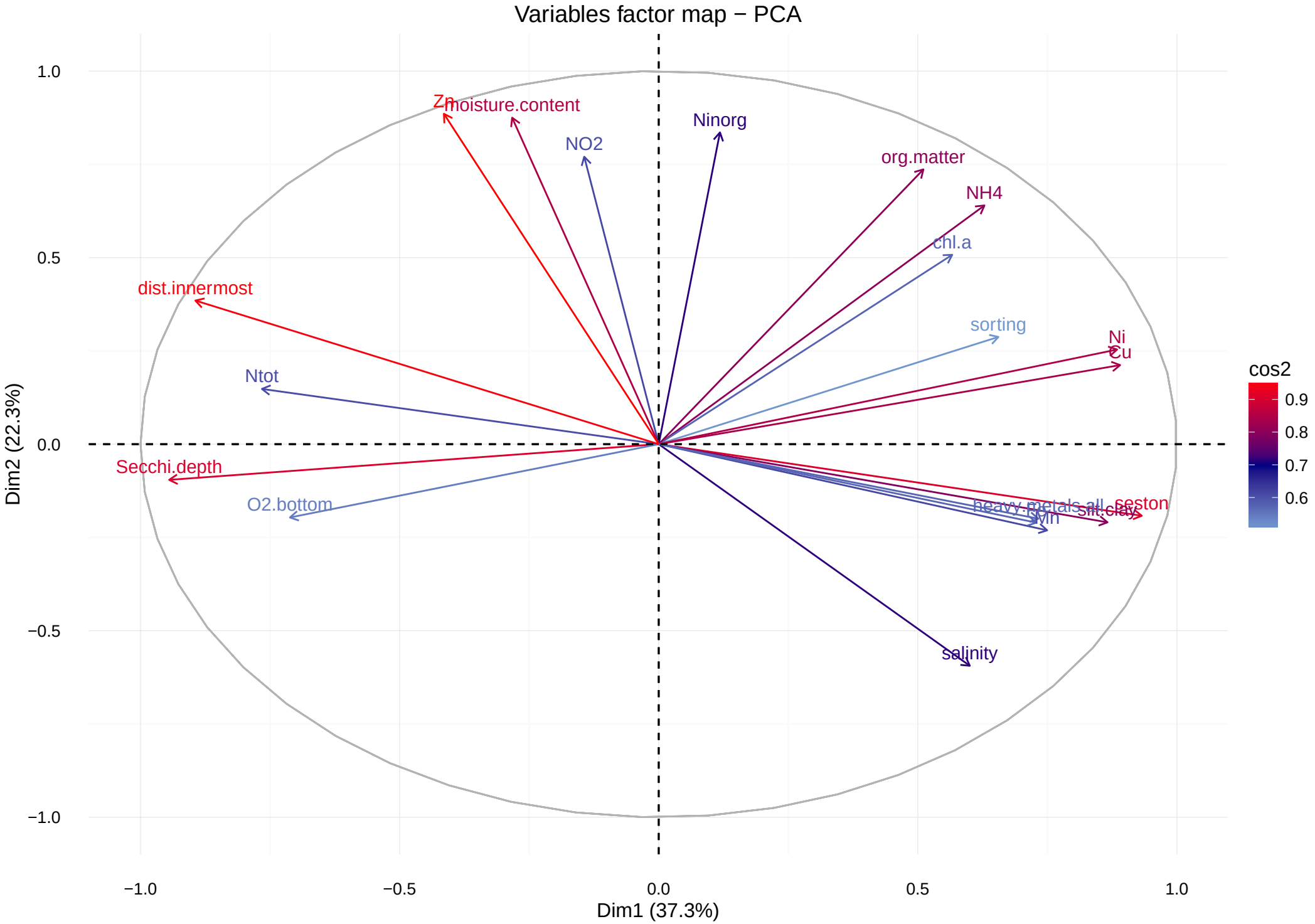
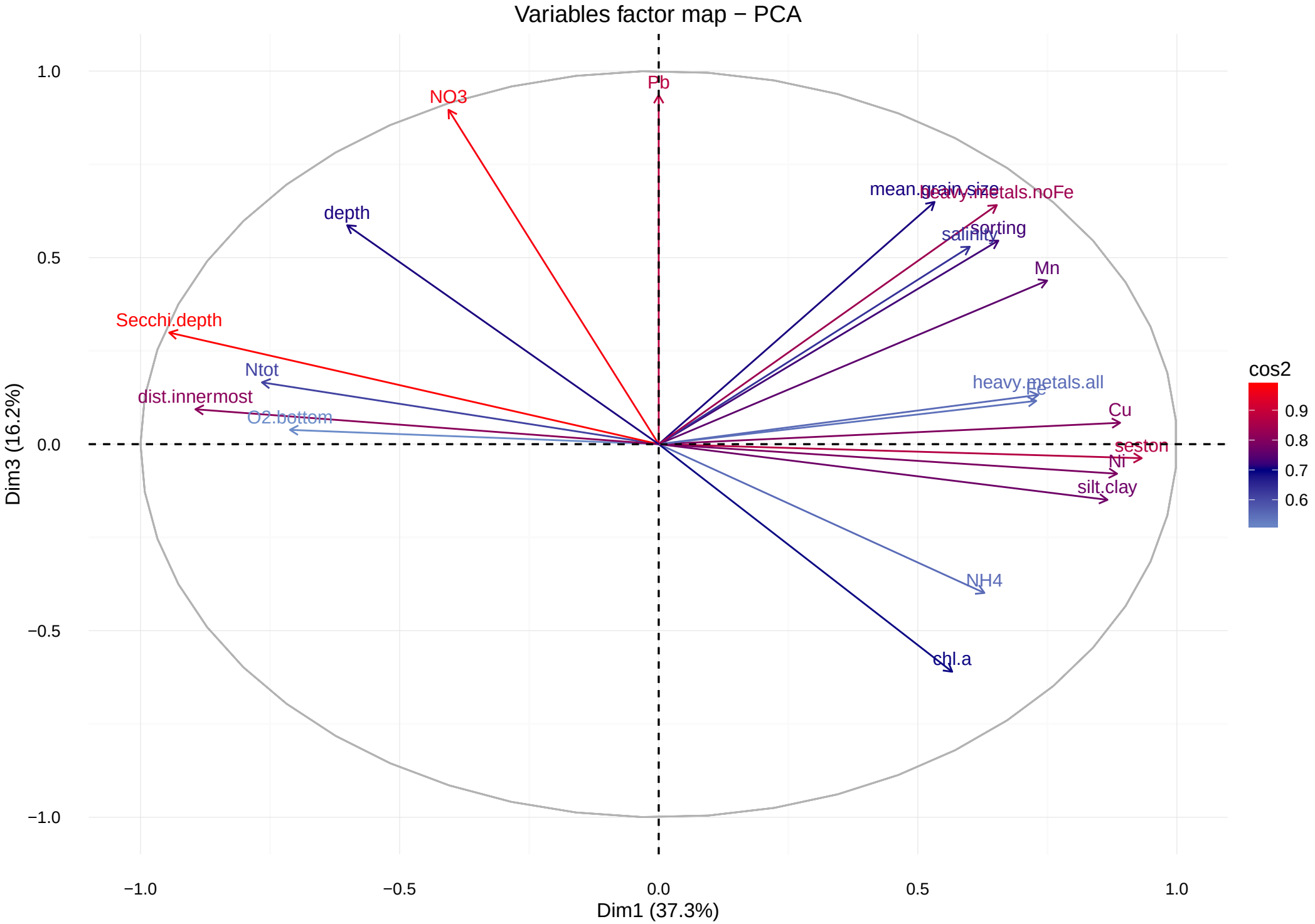
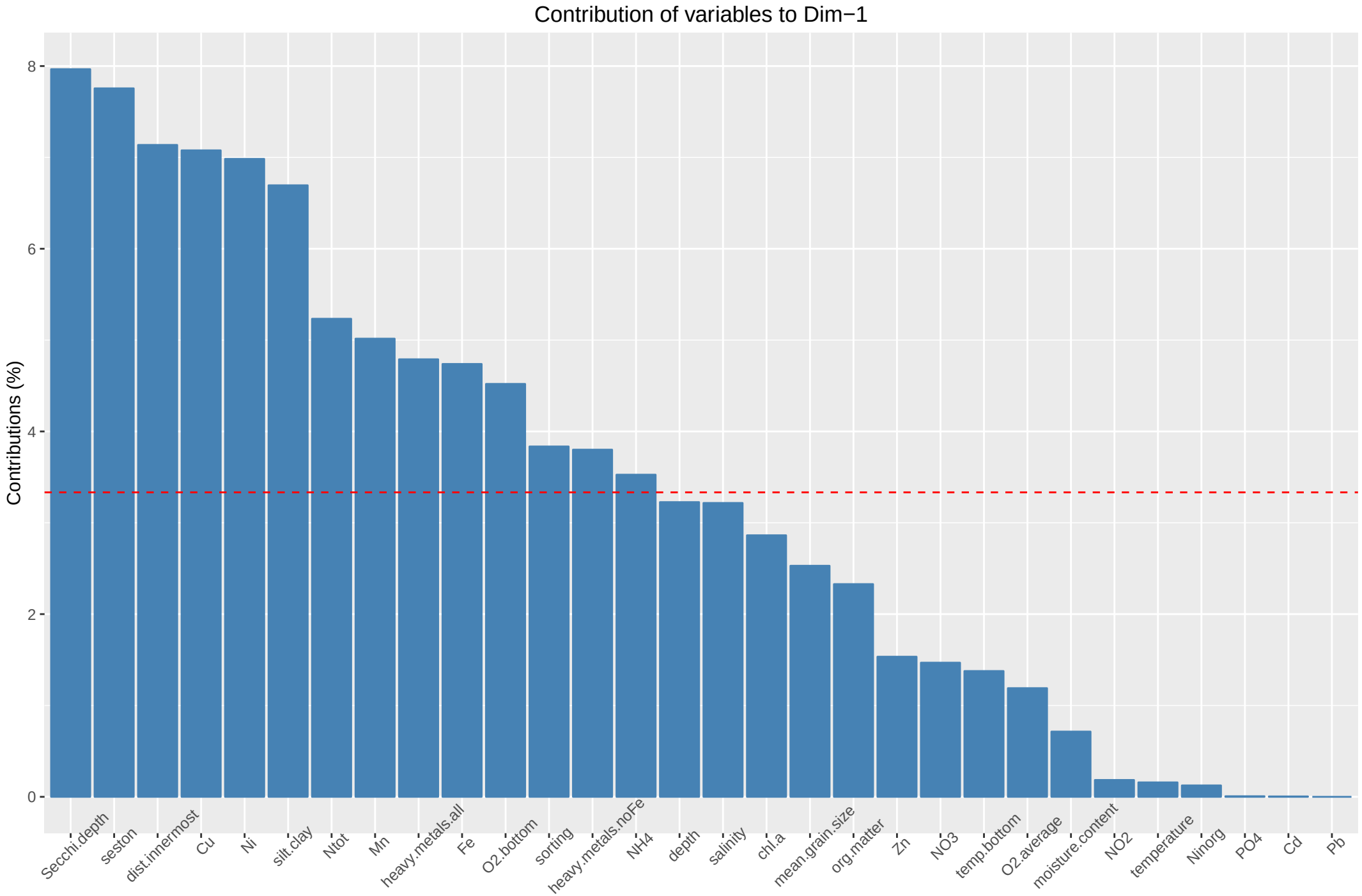
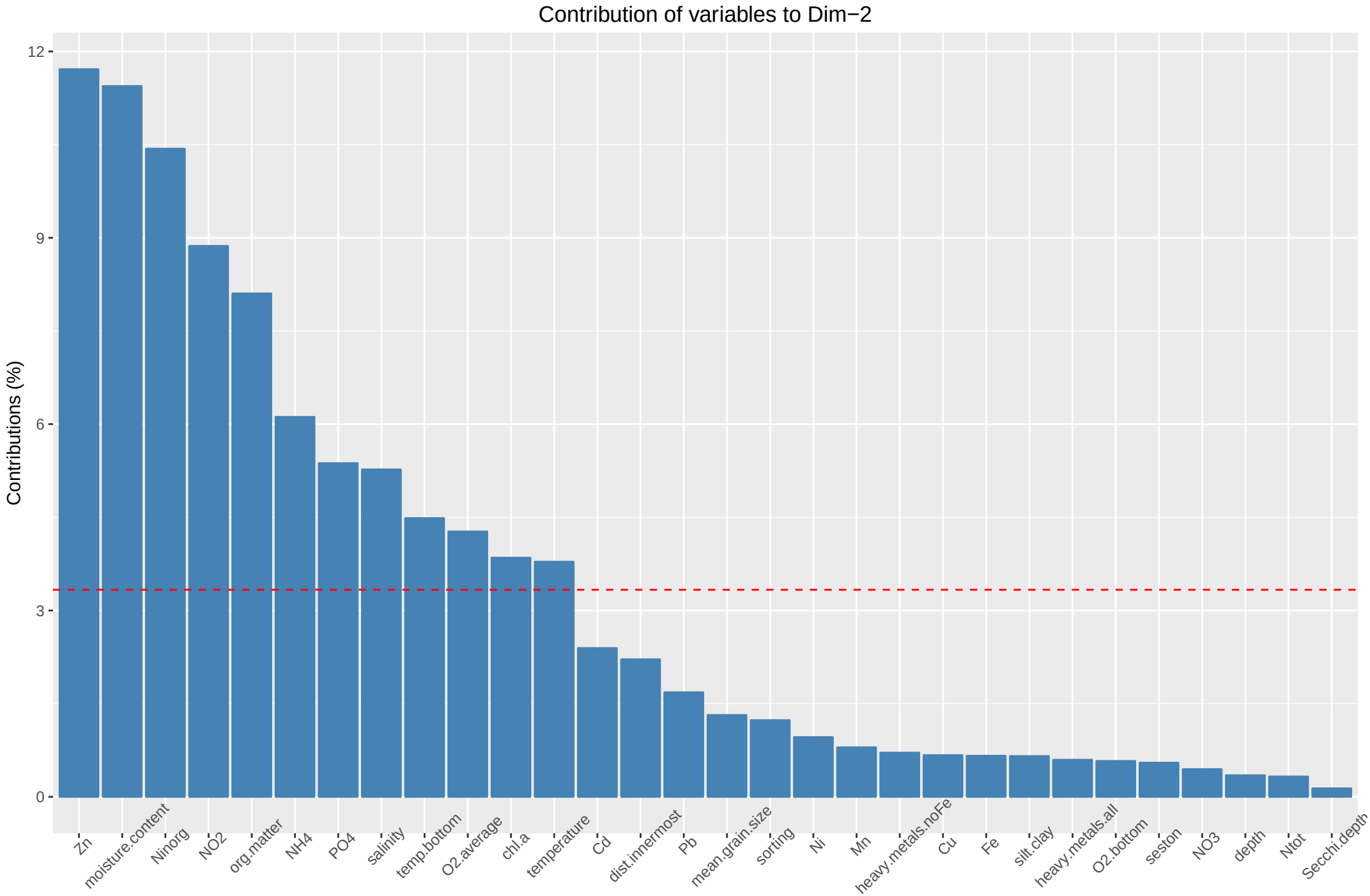
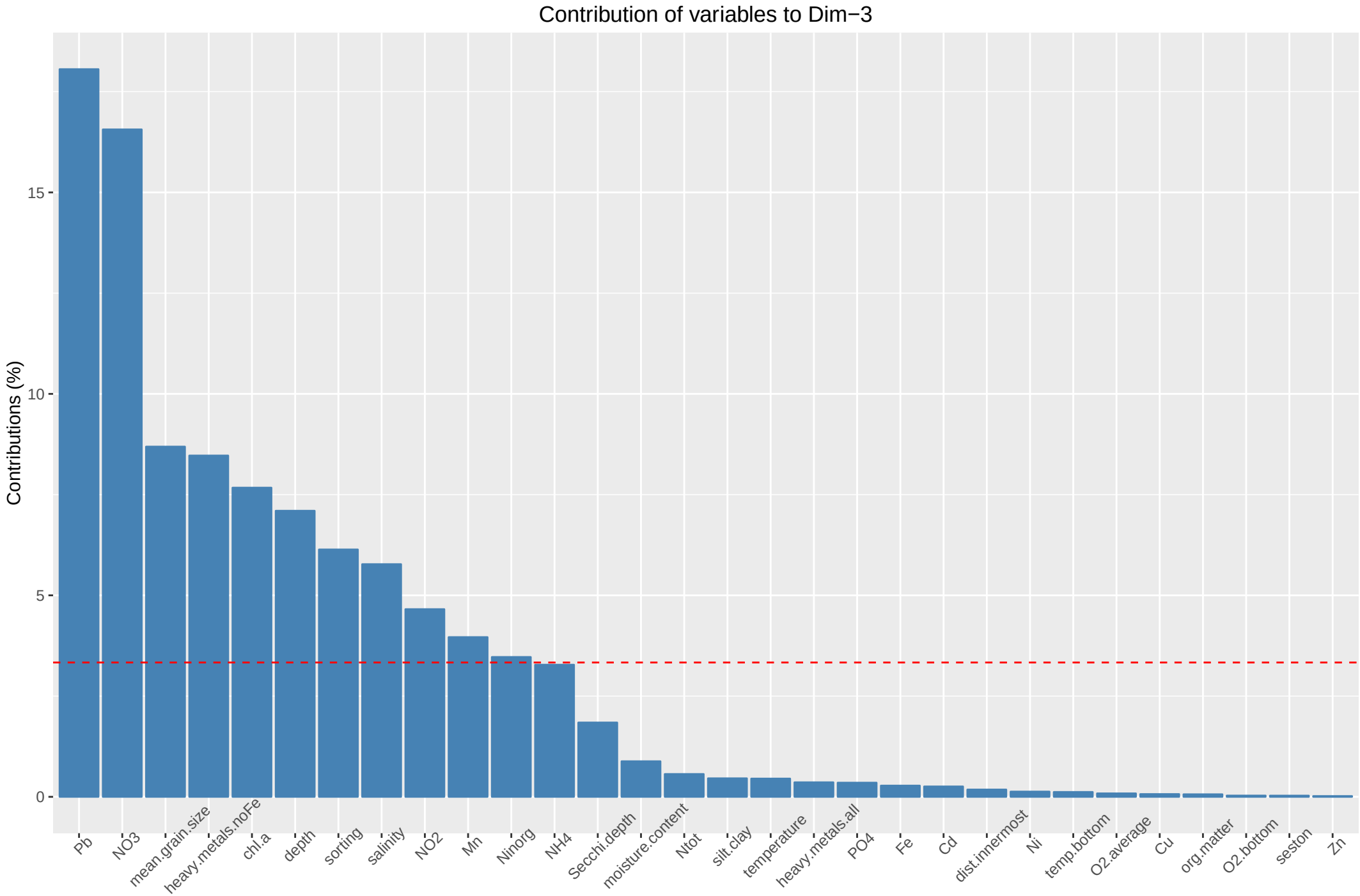

Scree plot
Percentage of explained variances
30
20
10
0
1
2
3
4
5
Dimensions

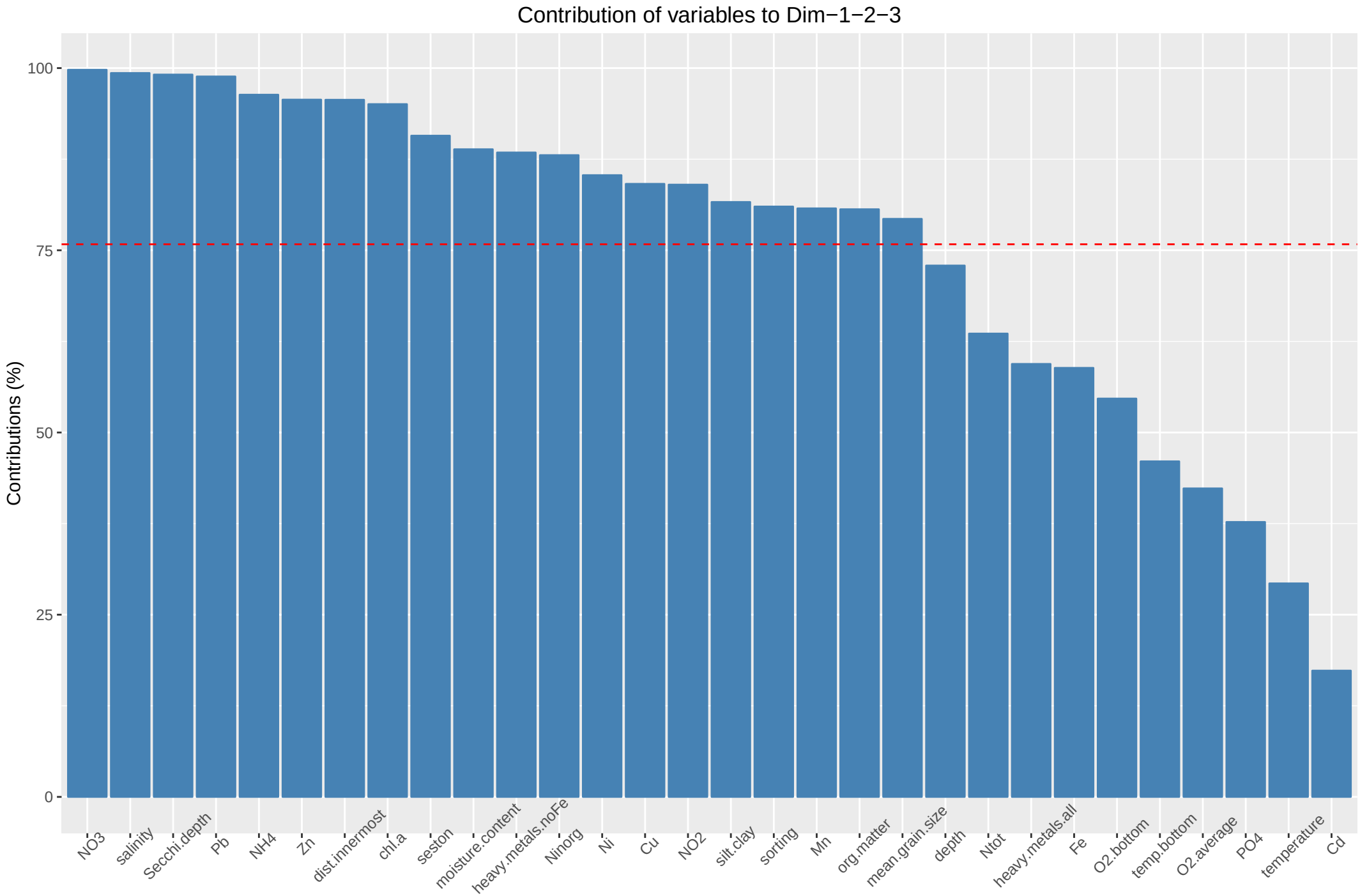

Variables factor map − PCA
Zn
moisture.content
NO2
Ninorg
org.matter
NH4
chl.a
dist.innermost
sorting
Ni
Cu
Ntot
Secchi.depth
O2.bottom
heavy.metals.all
silt.clay
seston
Mn
salinity
cos2
0.9
0.8
0.7
0.6
1.0
0.5
0.0
−0.5
−1.0
Dim2 (22.3%)
Dim1 (37.3%)

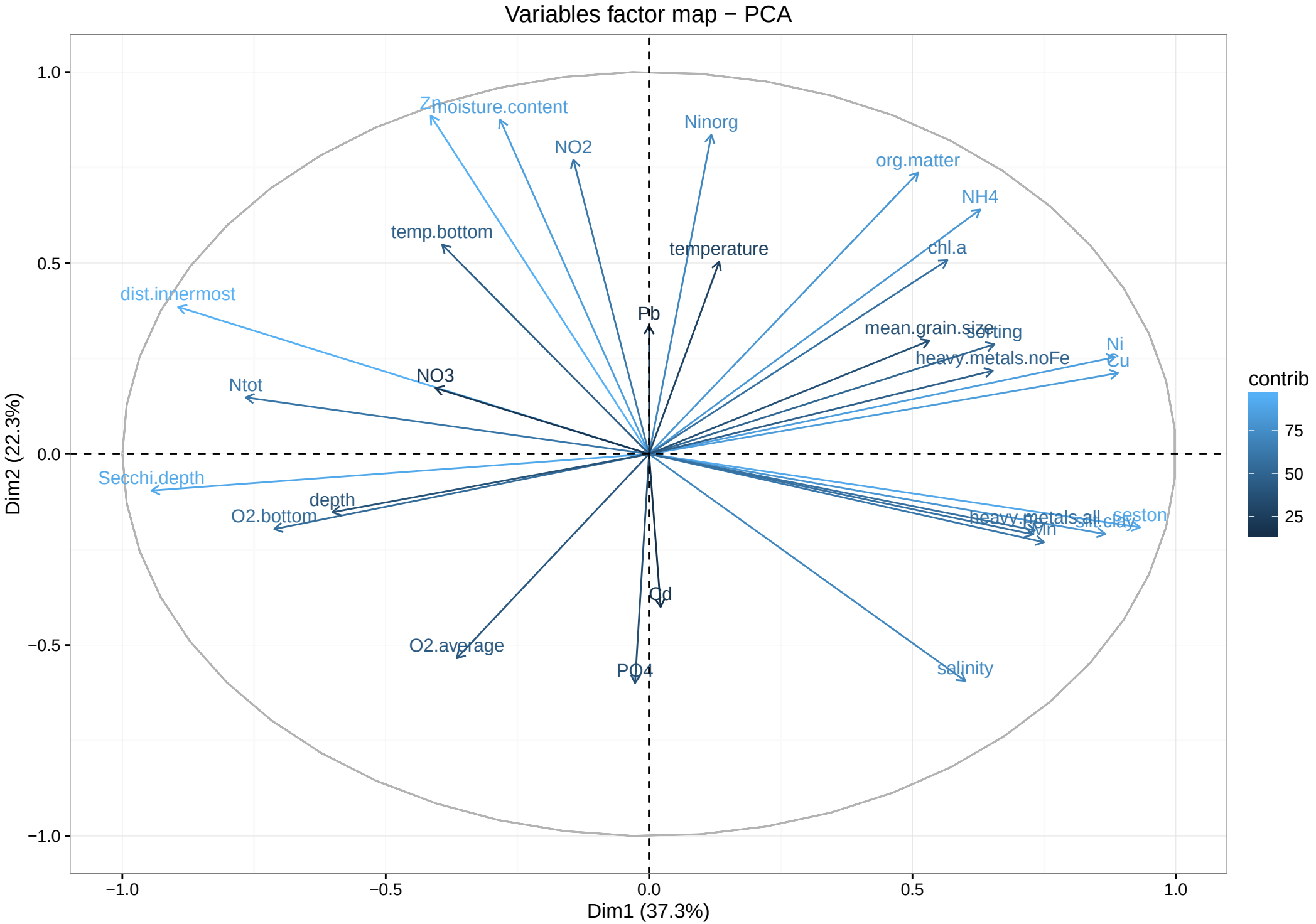

Variables factor map − PCA
Pb
NO3
depth
mean.grain.size
heavy.metals.noFe
salinity
sorting
Mn
Secchi.depth
Ntot
dist.innermost
O2.bottom
heavy.metals.all
Fe
Cu
seston
Ni
silt.clay
NH4
chl.a
cos2
0.9
0.8
0.7
0.6
1.0
0.5
0.0
−0.5
−1.0
Dim3 (16.2%)
Dim1 (37.3%)

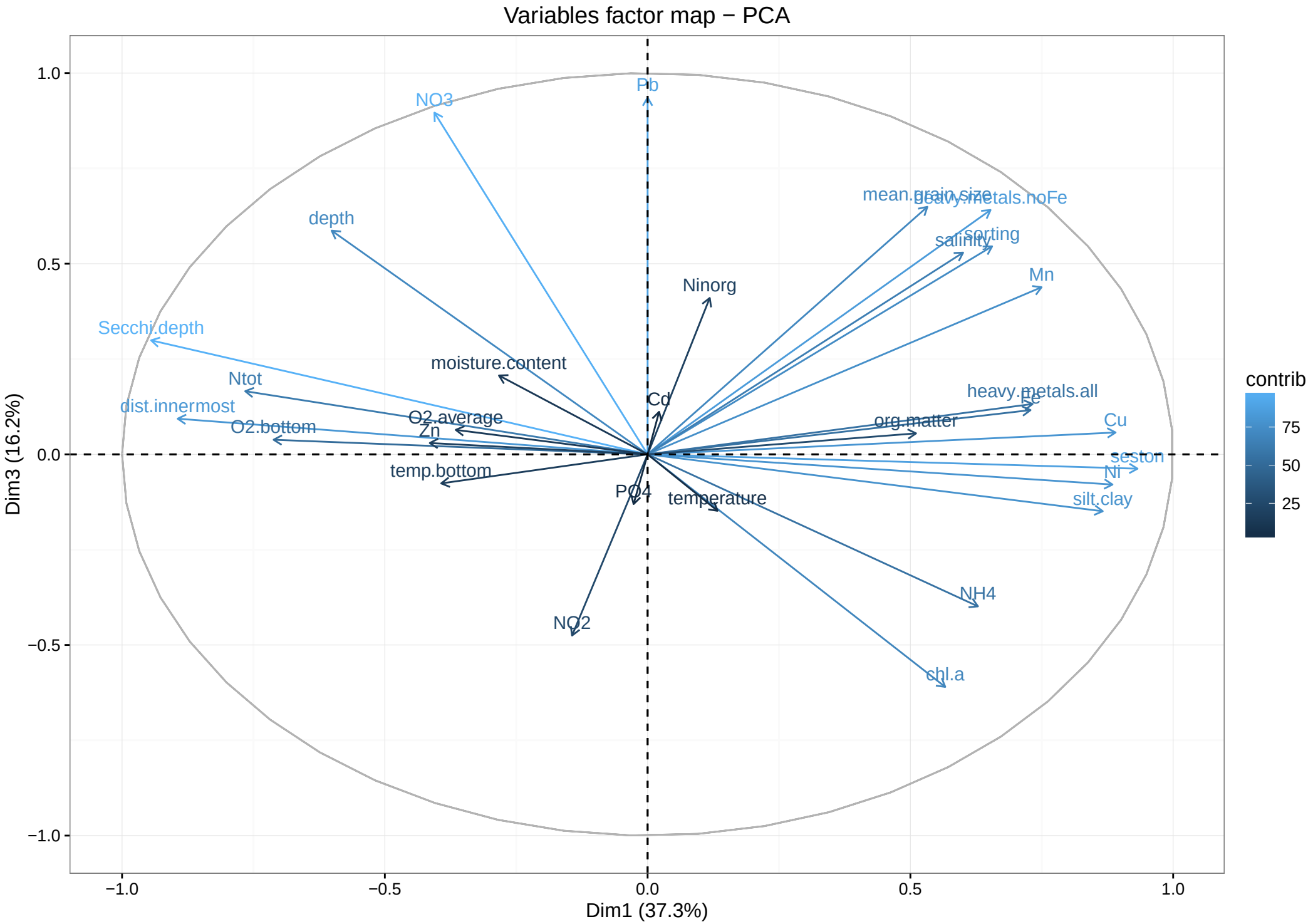

Contribution of variables to Dim−1
Contributions (%)
8
6
4
2
0
Secchi.depth
seston
dist.innermost
Cu
Ni
silt.clay
Ntot
Mn
heavy.metals.all
Fe
O2.bottom
sorting
heavy.metals.noFe
NH4
depth
salinity
chl.a
mean.grain.size
org.matter
Zn
NO3
temp.bottom
O2.average
moisture.content
NO2
temperature
Ninorg
PO4
Cd
Pb

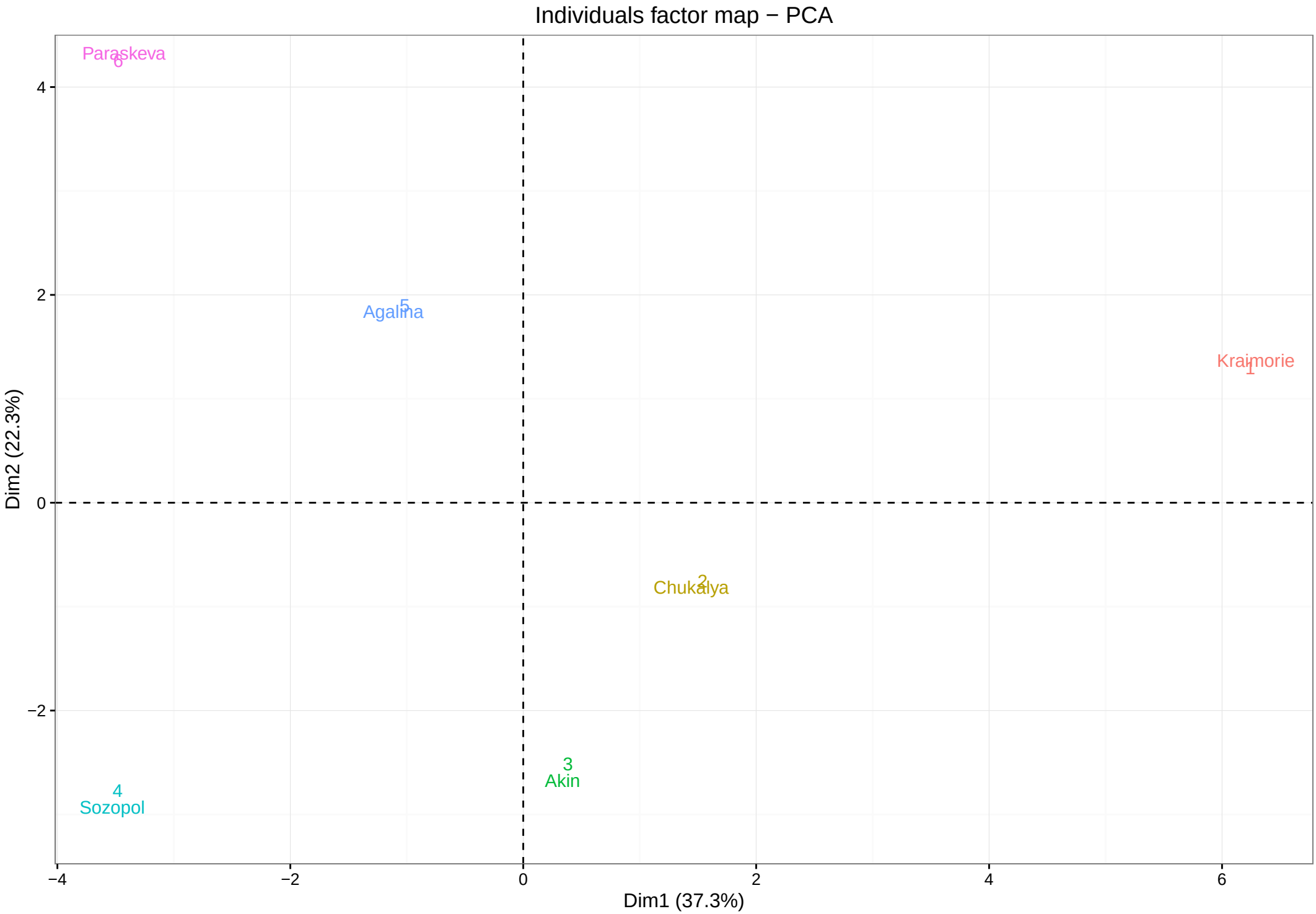

Contribution of variables to Dim−2
Contributions (%)
12
9
6
3
0
Zn
moisture.content
Ninorg
NO2
org.matter
NH4
PO4
salinity
temp.bottom
O2.average
chl.a
temperature
Cd
dist.innermost
Pb
mean.grain.size
sorting
Ni
Mn
heavy.metals.noFe
Cu
Fe
silt.clay
heavy.metals.all
O2.bottom
seston
NO3
depth
Ntot
Secchi.depth

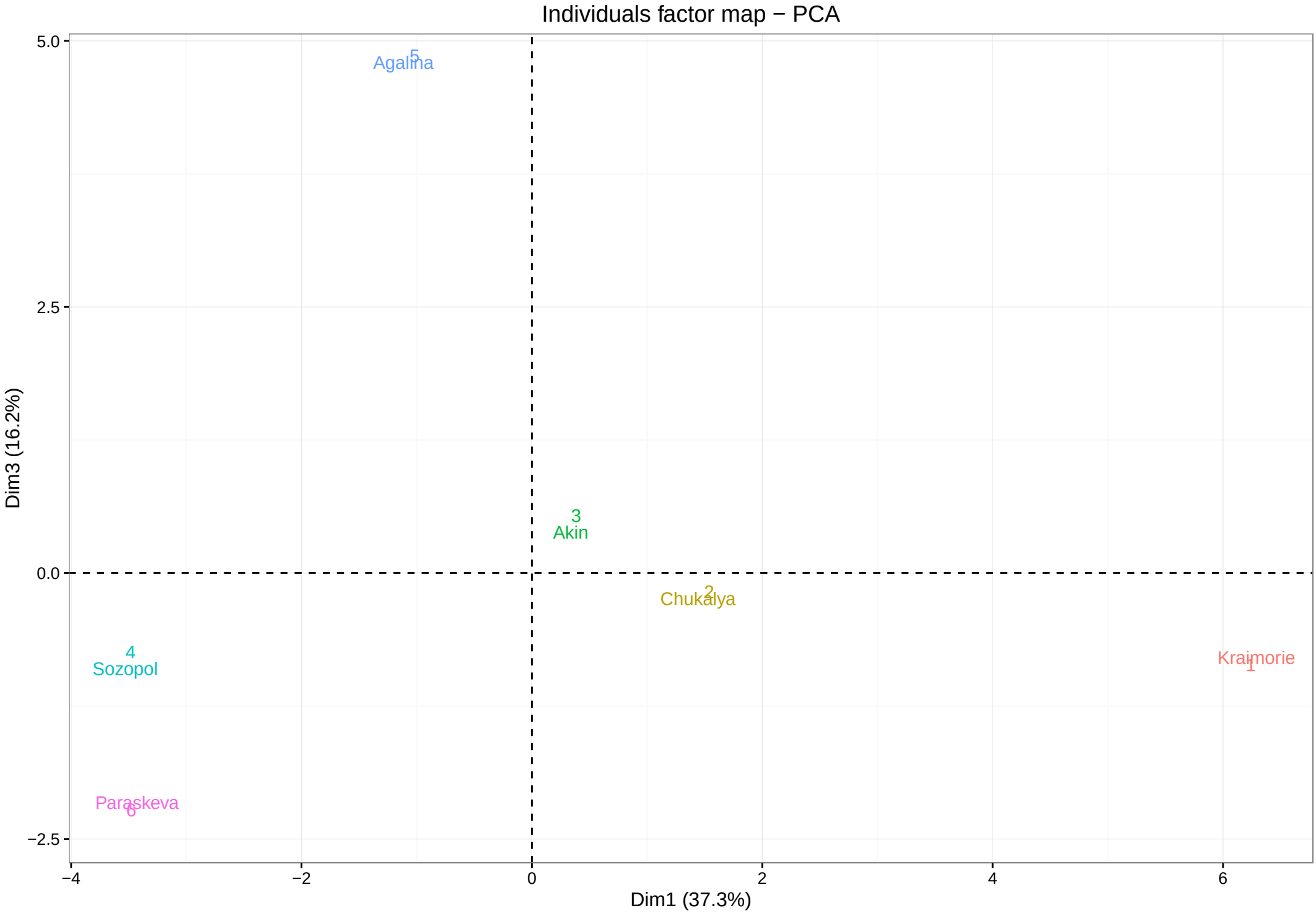

Contribution of variables to Dim−3
Contributions (%)
0
5
10
15
Pb
NO3
mean.grain.size
heavy.metals.noFe
chl.a
depth
sorting
salinity
NO2
Mn
Ninorg
NH4
Secchi.depth
moisture.content
Ntot
silt.clay
temperature
heavy.metals.all
PO4
Fe
Cd
dist.innermost
Ni
temp.bottom
O2.average
Cu
org.matter
O2.bottom
seston
Zn

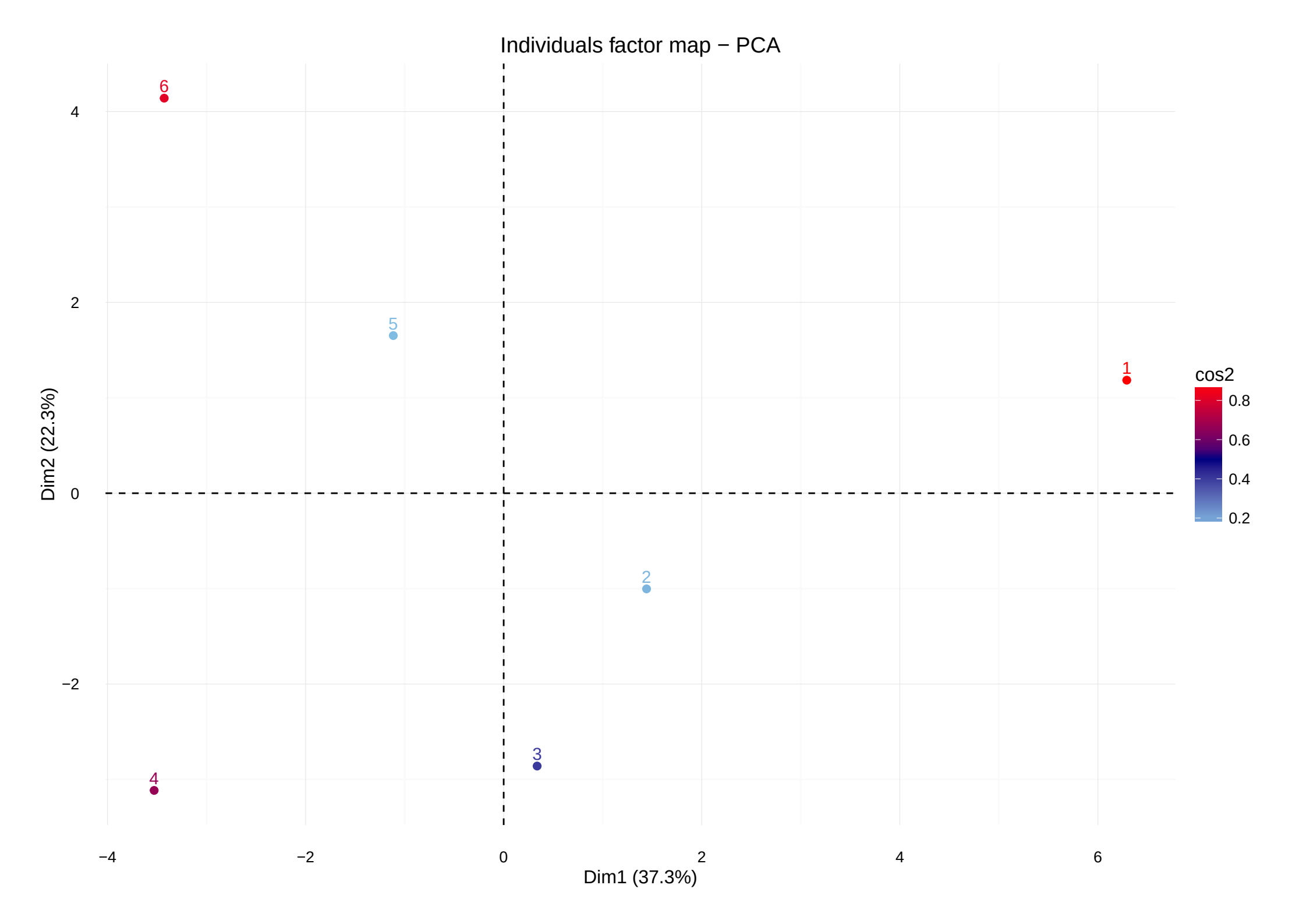

Contribution of variables to Dim−1−2−3
Contributions (%)
100
75
50
25
0
NO3
salinity
Secchi.depth
Pb
NH4
Zn
dist.innermost
chl.a
seston
moisture.content
heavy.metals.noFe
Ninorg
Ni
Cu
NO2
silt.clay
sorting
Mn
org.matter
mean.grain.size
depth
Ntot
heavy.metals.all
Fe
O2.bottom
temp.bottom
O2.average
PO4
temperature
Cd

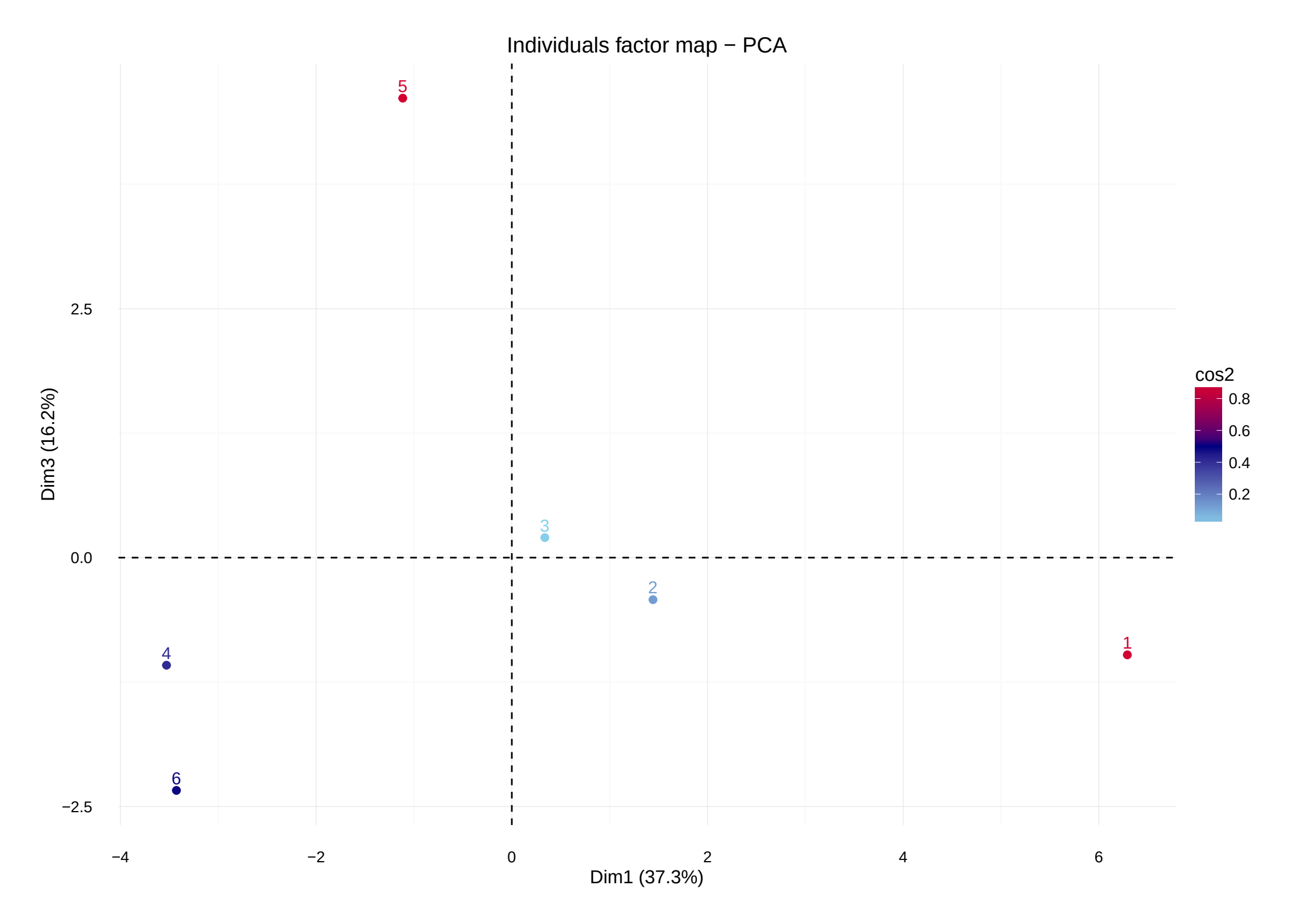

Variables factor map − PCA
Zn
moisture.content
NO2
Ninorg
org.matter
NH4
temp.bottom
temperature
chl.a
dist.innermost
Pb
mean.grain.size
sorting
Ni
heavy.metals.noFe
Cu
NO3
Ntot
Secchi.depth
depth
O2.bottom
heavy.metals.all
ceston
silt.clay
Cd
O2.average
PO4
salinity
contrib
75
50
25
1.0
0.5
0.0
−0.5
−1.0
Dim2 (22.3%)
Dim1 (37.3%)

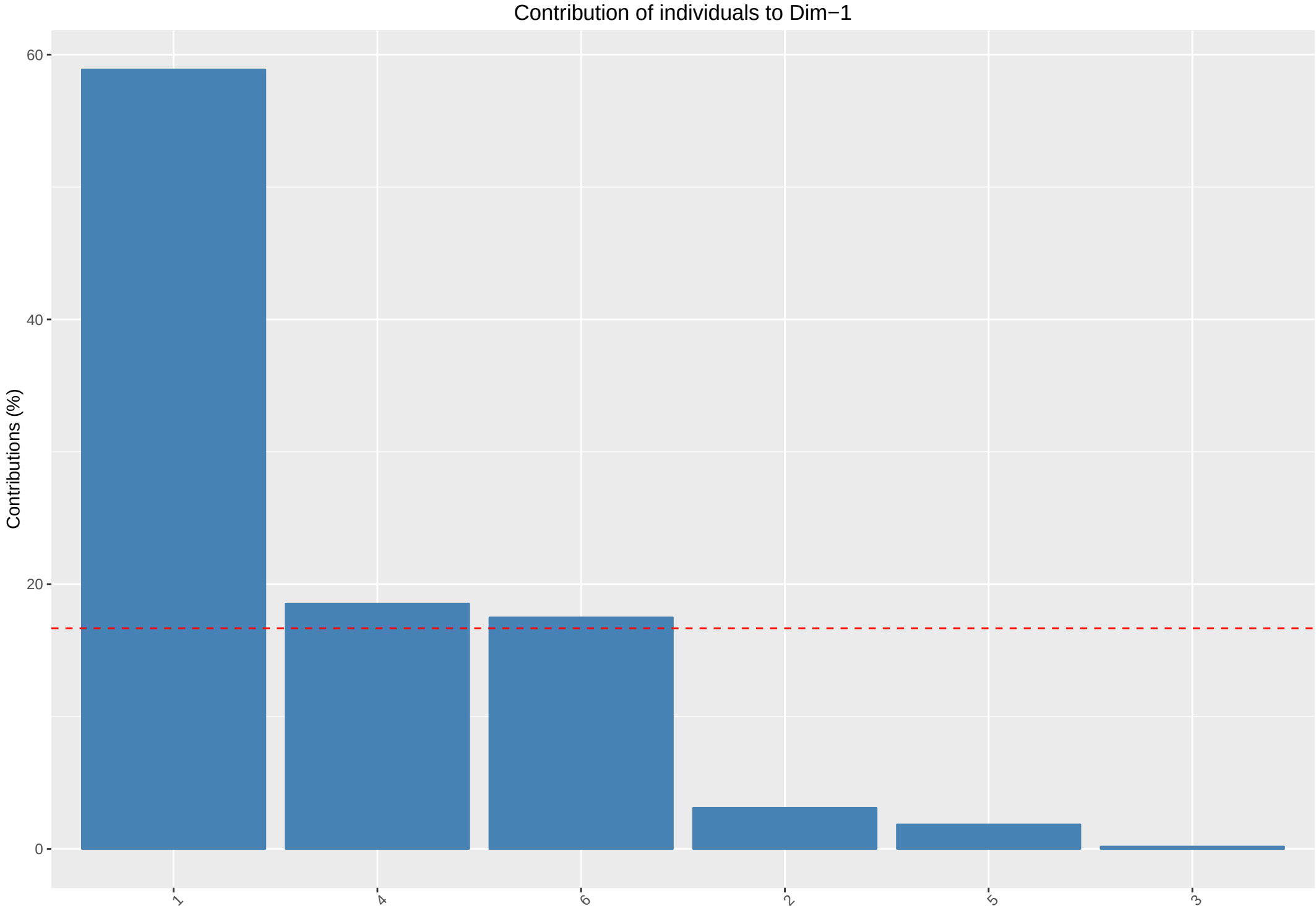

Variables factor map − PCA
Dim1 (37.3%)
Dim3 (16.2%)
1.0
0.5
0.0
−0.5
−1.0
−1.0
−0.5
0.0
0.5
1.0
Pb
NO3
depth
mean.grain.size
heavy.metals.noFe
salinity
sorting
Mn
Ninorg
Secchi.depth
moisture.content
Ntot
dist.innermost
O2.average
O2.bottom
Zn
Cd
heavy.metals.all
Fe
org.matter
Cu
seston
Ni
silt.clay
temp.bottom
PO4
temperature
NH4
NO2
chl.a
contrib
75
50
25

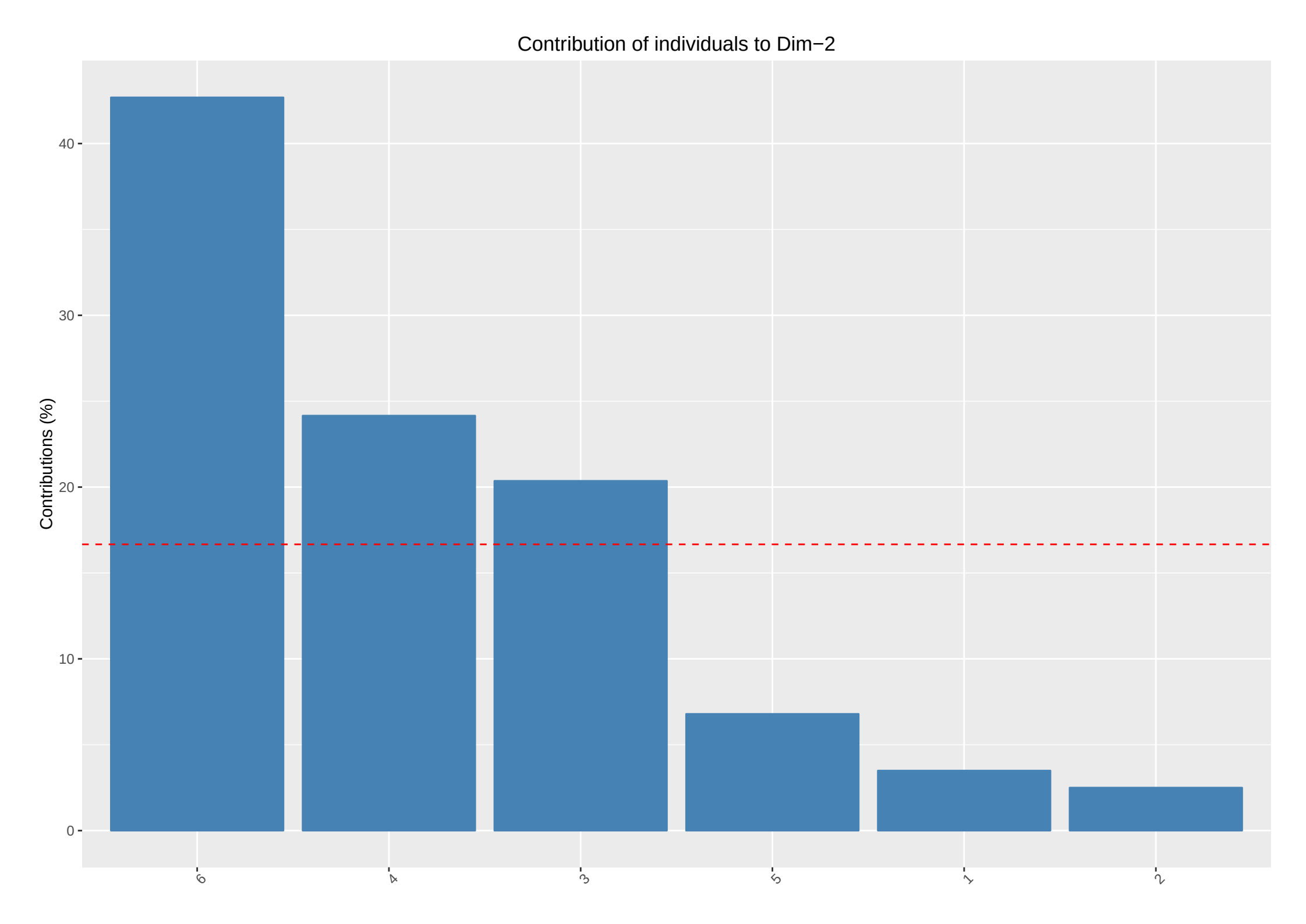

Individuals factor map − PCA
Paraskeva
6
Agalina
5
Kraimorie
1
Chukalya
2
3
Akin
4
Sozopol
Dim2 (22.3%)
Dim1 (37.3%)
4
2
0
−2
−4
−2
0
2
4
6

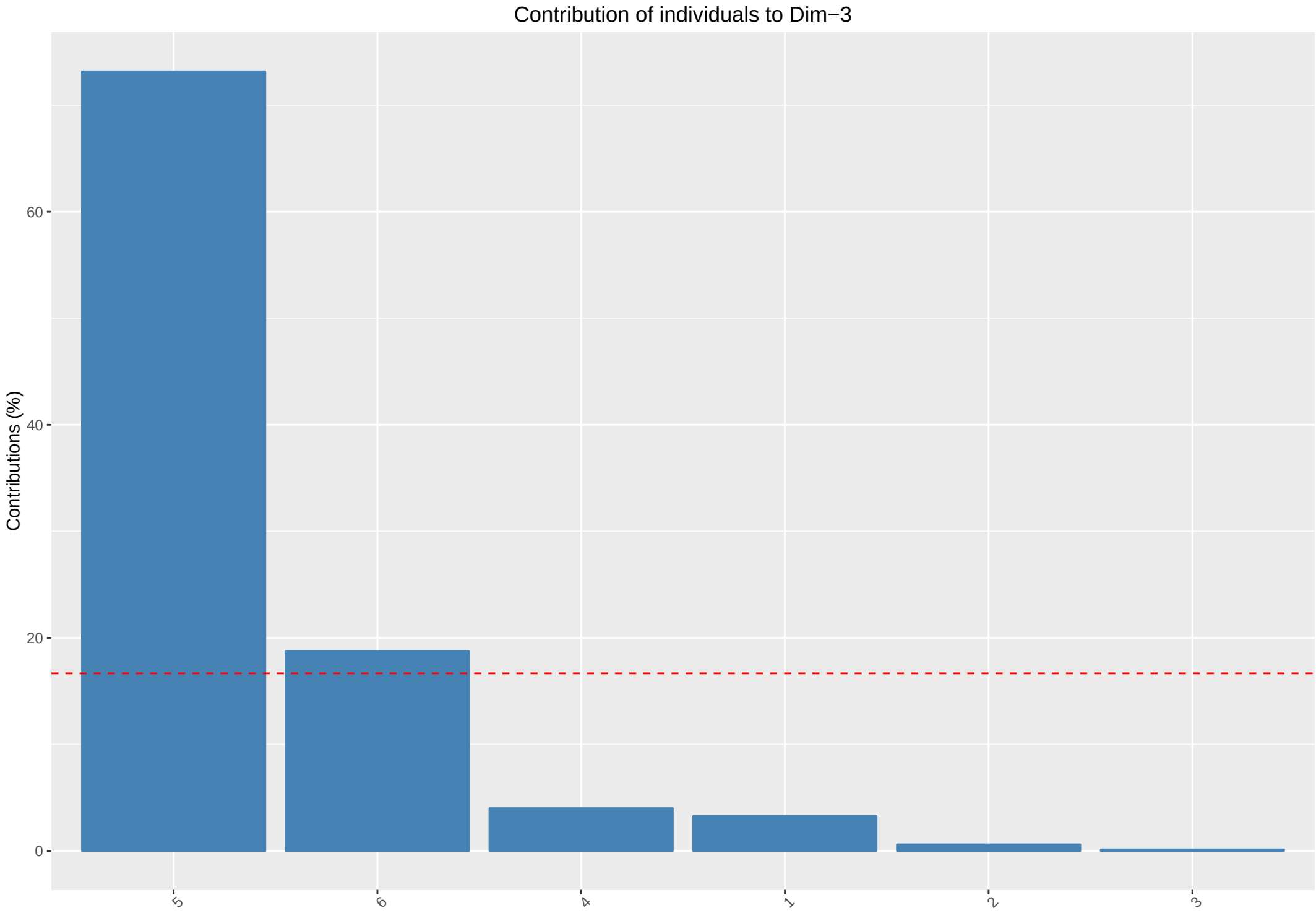

Individuals factor map − PCA
5
Agalina
3
Akin
2
Chukalya
4
Sozopol
1
Kraimorie
6
Paraskeva
5.0
2.5
0.0
−2.5
−4
−2
0
2
4
6
Dim3 (16.2%)
Dim1 (37.3%)

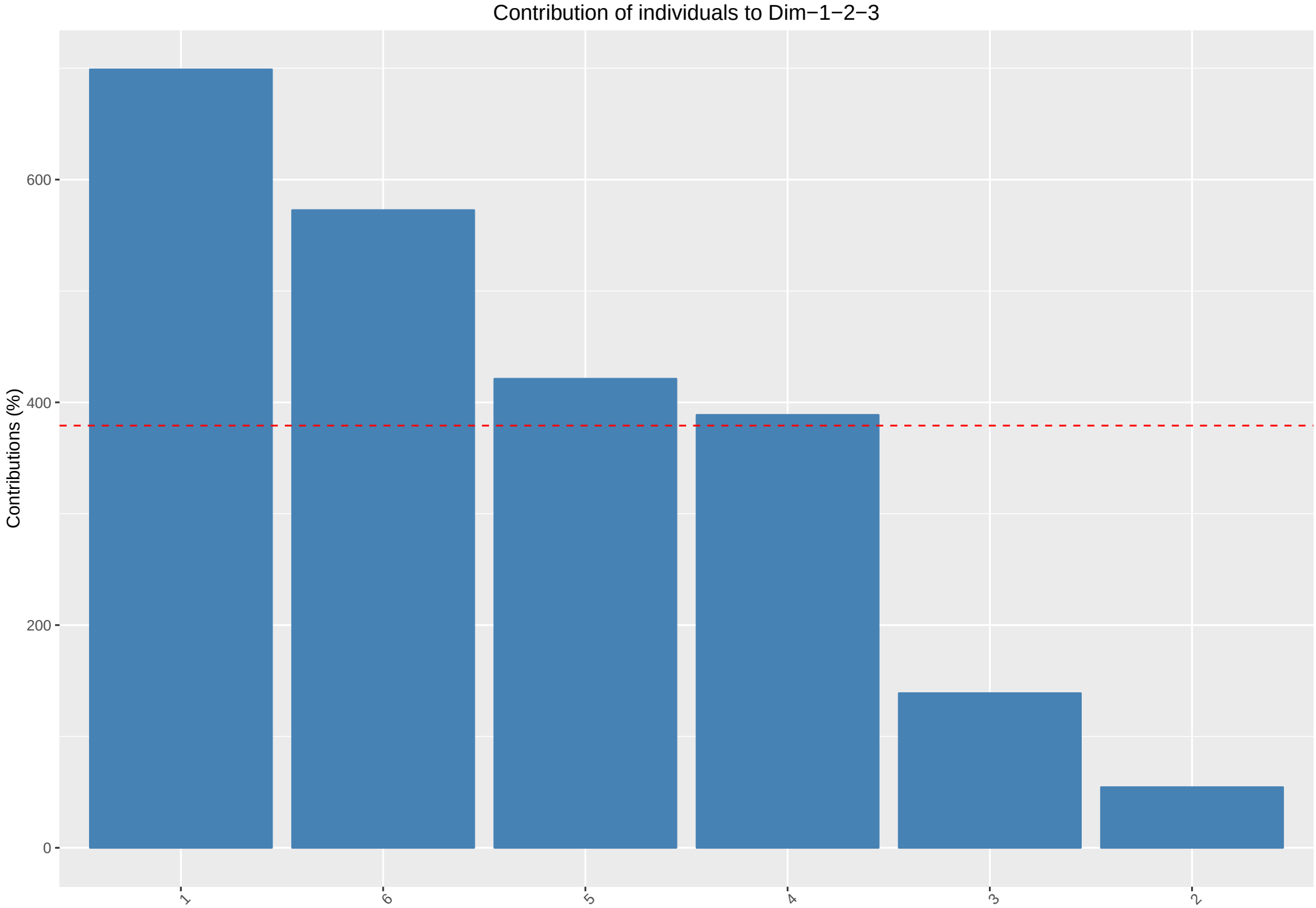

Individuals factor map − PCA
6
5
1
2
3
4
4
2
0
−2
Dim2 (22.3%)
−4
−2
0
2
4
6
Dim1 (37.3%)
cos2
0.8
0.6
0.4
0.2


Individuals factor map − PCA
5
3
2
1
4
6
2.5
0.0
−2.5
Dim3 (16.2%)
−4
−2
0
2
4
6
Dim1 (37.3%)
cos2
0.8
0.6
0.4
0.2


Contribution of individuals to Dim−1
Contributions (%)
60
40
20
0
1
4
6
2
5
3


Contribution of individuals to Dim−2
Contributions (%)
40
30
20
10
0
6
4
3
5
1
2


Contribution of individuals to Dim−3
Contributions (%)
60
40
20
0
5
6
4
1
2
3


Contribution of individuals to Dim−1−2−3
Contributions (%)
600
400
200
0
1
6
5
4
3
2