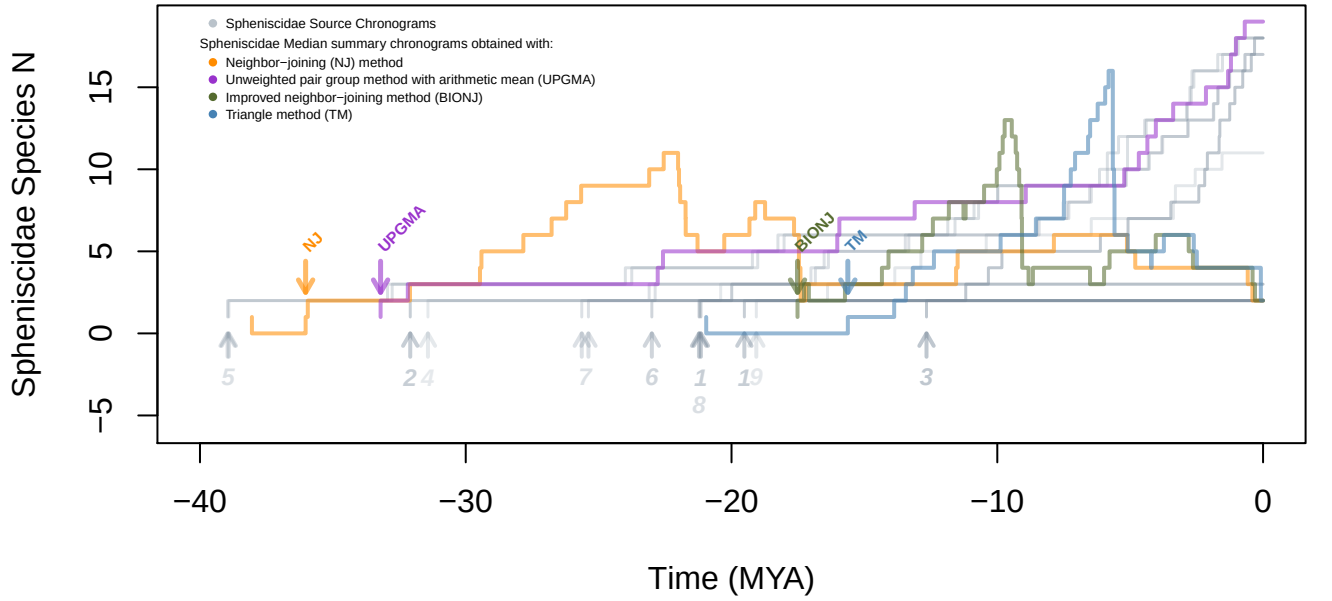
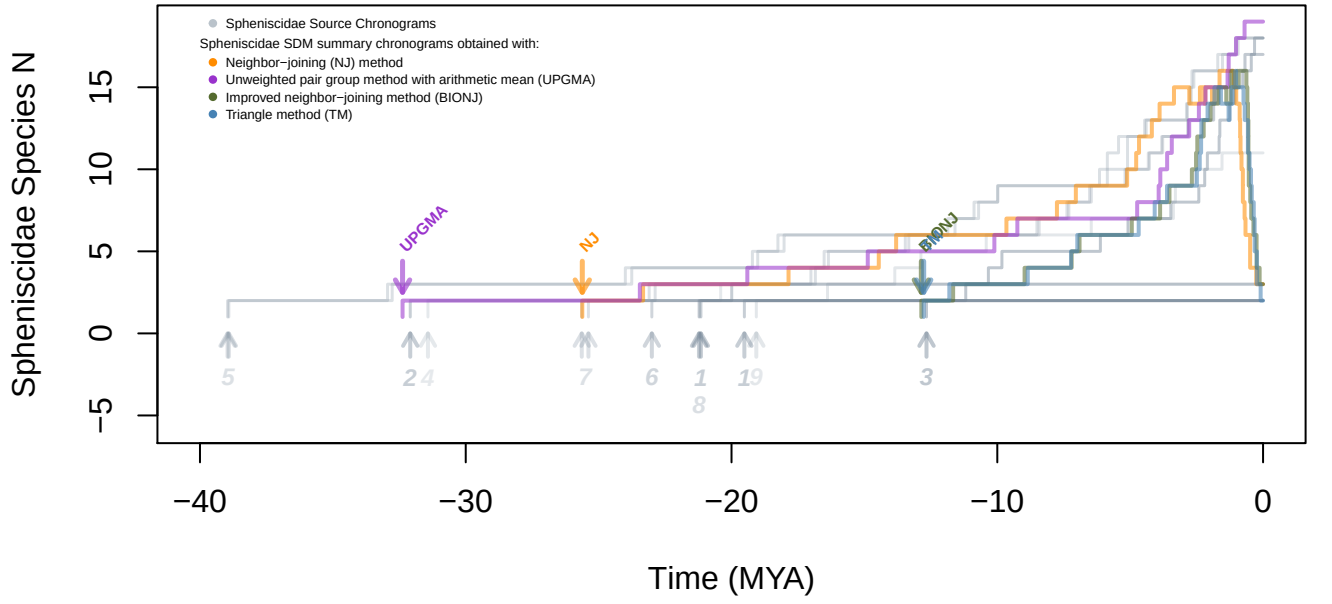

Spheniscidae Source Chronograms
Spheniscidae Median summary chronograms obtained with:
Neighbor−joining (NJ) method
Unweighted pair group method with arithmetic mean (UPGMA)
Improved neighbor−joining method (BIONJ)
Triangle method (TM)
NJ
UPGMA
BIONJ
TM
5
2
4
7
6
1
8
1
9
3
Sphenisciidae Species N
15
10
5
0
−5
−40
−30
−20
−10
0
Time (MYA)


Spheniscidae Source Chronograms
Spheniscidae SDM summary chronograms obtained with:
Neighbor−joining (NJ) method
Unweighted pair group method with arithmetic mean (UPGMA)
Improved neighbor−joining method (BIONJ)
Triangle method (TM)
UPGMA
NJ
BIONJ
5
2
4
7
6
1
8
1
9
3
Sphenisciidae Species N
15
10
5
0
−5
−40
−30
−20
−10
0
Time (MYA)