

# Branch Length and Branch Tau Values in 45 Fish Data

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Table 1: According to the table, we decided to exclude data with significant long branch length. We selected data with branch length greater than 2.

Pillar	branch	branch_length
Pillar852	(N7,ENSTRUG)	6.24086240114388
Pillar4287	(N2,ENSAMXG)	4.75905677228767
Pillar561	(N2,ENSAMXG)	3.66653652304355
Pillar2321	(N2,ENSAMXG)	2.05366818491986
Pillar3278	(N5,ENSORLG)	2.03150258132648
Pillar3346	(N0,ENSLOCG)	1.14267587079239
Pillar526	(N0,ENSLOCG)	1.05763001383944
Pillar5153	(N1,N3)	1.02799036023828
Pillar4932	(N0,ENSLOCG)	1.02371403455484

Table 2: This table explained why we exclude data Pillar3994.

Pillar	Branch	tau value
Pillar3994	(N1,N2,tau)	2.31192784636231
Pillar3994	(N3,N4,tau)	2.30234638552699
Pillar3994	(N3,N6,tau)	1.78886058071118
Pillar3994	(N4,ENSONIG,tau)	1.45402663589158
Pillar3994	(N4,N5,tau)	1.35687842600122
Pillar3994	(N5,ENSXMAG,tau)	1.30951945190042
Pillar3994	(N1,N3,tau)	1.22569886148963
Pillar3994	(N2,ENSDARG,tau)	1.2183278529728
Pillar3994	(N2,ENSAMXG,tau)	1.18791965998689
Pillar3994	(N0,N1,tau)	1.10987962466639
Pillar3994	(N6,N7,tau)	1.10851874540644
Pillar3994	tau	1.08918593447765
Pillar3994	(N6,ENSGACG,tau)	1.00116527439867
Pillar3994	(N7,ENSTRUG,tau)	0.861845808911303
Pillar3994	(N5,ENSORLG,tau)	0.723414522835725
Pillar3309	(N4,N5,tau)	0.660836054279864
Pillar3994	(N7,ENSTNIG,tau)	0.648207685797623
Pillar521	(N3,N4,tau)	0.642784859993944
Pillar521	(N4,ENSONIG,tau)	0.625677207817187
Pillar4063	(N2,ENSAMXG,tau)	0.614908787857826
Pillar3309	(N5,ENSORLG,tau)	0.578060938398325
Pillar3278	(N3,N6,tau)	0.570144559034368
Pillar4063	(N5,ENSXMAG,tau)	0.56203288289765
Pillar2210	(N3,N6,tau)	0.561527077302088
Pillar4063	(N1,N2,tau)	0.55161714280138
Pillar3309	(N1,N3,tau)	0.548320844160618
Pillar4063	(N2,ENSDARG,tau)	0.547402402996801
Pillar4063	(N6,N7,tau)	0.541963338436093
Pillar3309	(N3,N4,tau)	0.537648578258308
Pillar4063	(N0,N1,tau)	0.524932103719642
Pillar3309	(N6,N7,tau)	0.517002882565528
Pillar4063	(N4,ENSONIG,tau)	0.516814719294422
Pillar4063	tau	0.509369776163187
Pillar4063	(N3,N6,tau)	0.50714885415061