Stable Isotope Mixing Models: course timetable

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Course pre-requisites can be found here. All the raw files and code can be found here. Click 'Download ZIP' near the top right if you want an offline copy of everything.

Tuesday

Time	Class
9:00-10:00	Introduction: why use a SIMM? (AJ)
10:00-10:30	Discussion and coffee
10:30-11:30	An introduction to Bayesian statistics (AP)
11:30-12:00	Discussion and break
12:00-13:00	Differences between regression models and SIMMs (AP)
13:00-14:00	Lunch
14:00-15:30	Practical: Revision on using R to load data, create plots and fit statistical models (AJ)
15:30-16:00	Break
16:00-17:30	Discussion: understanding Bayesian models.

Wednesday

Time	Class
9:00-10:30	Dos and don'ts of using mixing models with discussion (AJ)
10:30-10:45	Discussion and coffee
10:45-11:30	The statistical model behind SIAR (AP)
11:30-13:00	Practical: using SIAR for real-world data sets (AP), *or* why not try using simmr?
13:00-14:00	Lunch
14:00-14:30	Creating and understanding Stable Isotope Bayesian Ellipses (SIBER) (AJ)
14:30-15:30	Practical: Using SIBER to compare populations using ellipses (AJ)
15:30-16:00	Break
16:00-16:30	Community level metrics using SIBER (AJ)
16:30-17:30	Practical: Using SIBER to compare communities using convex hulls (AJ)

Thursday

Time	Class
9:00-9:45	From SIAR to MixSIAR (AP)
9:45-10:15	Discussion and coffee
10:15-11:00	Using MixSIAR (AP)
11:00-11:15	Break
11:15-12:30	Practical: Source grouping, when and how? (AJ)
12:30-13:00	Estimating trophic discimination factors using SIDER (AJ)

Time	Class
13:00-14:00	Lunch
14:00-15:00	Practical: Estimating trophic discrimination factors using SIDER (AJ)
15:00-18:00	Activity!

Friday

Time	Class
9:00-10:00	SIMMs for complex data sets: time series and mixed effects models (AP)
10:00-10:30	Discussion and coffee
10:30-11:30	Practical: using MixSIAR and JAGS on real world data sets; benefits over SIAR (AP)
11:30-12:00	Break
12:00-12:45	Practical (continued)
12:45-14:00	Lunch
14:00-17:30	Discussion: bring your own data set