HarrodLab course - Use of Stable Isotopes & Fatty Acids in Aquatic Ecology: Theory & Practice. 9-14 January 2017 (nb: subject to change)

Use of Stable Isotopes & Fatty Acids in Aquatic Ecology: Theory & Practice. Course 9 – 14 January 2017

Date	AM Activity	PM Activity
Sunday 8 January	Travel to Antofagasta	19:00 Welcome and ice breaker (Instituto de Antofagasta)
Monday 9	9:00 Introduction to course & speakers. Introduction to Journal	12:00 - 13:00 Lunch
January	club –outline of mini-group project	
		13:00 - 18:00 Data practical 1: Preparation of stable isotope
	9:30 Introduction to course delegates (short presentation of 5	data for analysis
	minutes per person)	Laboratory practical 1. Comple collection and proparation
	10:20 Lastura 1: Theory of stable isotope applysis	Laboratory practical 1: Sample collection and preparation.
	10:30 Lecture 1: Theory of stable isotope analysis	Coffee break 15:30 - 16:00
Tuesday 10	9:00 Lecture 2: Biogeochemical and geographical drivers of	12:00 - 13:00 Lunch
January	isotopic variation	
		13:00 Data practical 2: Statistical analysis of isotopic variation
	10:30 Lecture 3: Individual drivers of isotopic variation	between individuals and groups
		15:30 - 16:00 Coffee break
		16:00 - 18:00 Data Practical 3: Going from isotope data to
		ecological information 1 (estimating isotopic niche)
Wednesday 11 January	9:00 Lecture 4: Using stable isotopes to understand consumer diet and habitat use I	12:00 - 13:00 Lunch
		13:00 Data Practical 4: Going from isotope data to ecological
	10:30 Lecture 5: Using stable isotopes to understand consumer	information 2 (estimating trophic position)
	diet and habitat use II	
		15:30 - 16:00 Coffee break
		16:00 - 18:00 Data Practical 5: Simple isotope mixing models

Date	AM Activity	PM Activity
Thursday 12 January	9:00 Lecture 6: Theory of fatty acid analysis	12:00 - 13:00 Lunch
January	10:30 Lecture 7: Using fatty acids to understand consumer diet and habitat use	13:00 Data Practical 6: Fatty acid data – handling and preparing for analysis
		15:30 - 16:00 Coffee break
		16:00 - 18:00 Data Practical 7: Multivariate analysis of fatty acid data
Friday 13 January	9:00 Lecture 8: Putting it all together – tips (and pitfalls) for writing an isotope ecology paper	12:00 - 13:00 Lunch
	10:00 Journal Club: IsoGroup presentations – Groups present their critical reviews of key isotope ecology papers	13:00 Data Practical 8: More complex isotope mixing models: MixSIAR
	their critical reviews of key isotope ecology papers	15:30 - 16:00 Coffee break
		16:00 - 18:00 Data Practical 9: Combined analysis of isotope and fatty acid data
Saturday 14	9:00 Show us your data: interactive workshop on student	12:00 - 13:00 Lunch
January	isotope & fatty acid data	13:00 Show us your data 2: interactive workshop on student isotope & fatty acid data
		15:30 - 16:00 Coffee break
		18:00 Course ends!