

Program of the 3<sup>rd</sup> International Summer School on Stable Isotopes in Animal Ecology,  
10. - 14.9.2018 in Berlin, Leibniz Institute for Zoo and Wildlife Research

<b>Monday, 10.09.2018</b>		<b>General introduction, botany, general stable isotope ecology, paleozoology,</b>
8:50 - 9:00	Christian Voigt & Alexandre Courtiol - <i>Welcome and introduction</i>	
9:00 - 9:45	Len Wassenaar - <i>General aspects of stable isotopes</i>	
9:45 - 10:30	Matthias Saurer - <i>Stable isotopes in botany</i>	
<b>10:30 - 11:00</b>	<b>Coffee break</b>	
11:00 - 12:30	Keith Hobson - <i>Stable isotopes in animal ecology</i>	
<b>12:30 - 13:30</b>	<b>Lunch break</b>	
13:30 - 14:15	Thomas Tuetken - <i>Heavy stable isotopes in paleozoology</i>	
14:15 - 15:30	IT - Uploading of R packages Alexandre Courtiol - <i>A quick introduction into the basics of R</i>	
<b>15:30 - 16:00</b>	<b>Coffee break</b>	
16:00 - 18:00	Oral presentations of students (10 min each) followed by poster session	
<b>starting 18:00</b>	<b>BBQ (optional)</b>	

<b>Tuesday, 11.09.2018</b>		<b>Limnology, physiology, isotopic niches, migration studies, isotopic niches and dietary reconstruction</b>
9:00 - 9:45	Jon Grey - <i>Stable isotopes in limnology</i>	
9:45 - 10:30	Christian Voigt - <i>Stable isotopes in animal physiology</i>	
<b>10:30 - 11:00</b>	<b>Coffee break</b>	
11:00 - 12:00	Keith Hobson - <i>Stable isotopes in migration studies</i>	
<b>12:00 - 13:30</b>	<b>Lunch break</b>	
13:30 - 14:15	Christian Voigt/Kseniia Kravchenko - <i>Isotopic niches and specialization (SIBER)</i>	
14:15 - 15:00	Christian Voigt/Cecilia Kruscynski de Assis - <i>Mixing models and dietary reconstruction (MixSIAR)</i>	
<b>16:00 - 19:00</b>	<b>Visit of Natural History Museum (optional)</b>	

<b>Wednesday, 12.09.2018</b>		<b>Focus: Practical work in lab</b>
9:00 - 9:30	General aspects of sample collection and conservation	
<b>9:30 - 10:00</b>	<b>Coffee break</b>	
10:00 - 12:00	Practical part I	
<b>12:00 - 13:30</b>	<b>Lunch break</b>	
13:30 - 15:30	Practical part II	
<b>15:30 - 16:00</b>	<b>Coffee break</b>	
<b>16:00 - 16:30</b>	<b>Software check (R, R-packages)</b>	
<b>starting 16:30</b>	<b>Berlin visit (optional)</b>	

<b>Thursday, 13.09.2018</b>		<b>Focus: Isoscapes and geographical assignments</b>
9:00 - 10:30	Gabe Bowen - <i>Isoscapes</i>	
<b>10:30 - 11:00</b>	<b>Coffee break</b>	
11:00 - 12:30	Gabe Bowen - <i>IsoMAP</i>	
<b>12:30 - 14:00</b>	<b>Lunch break</b>	
14:00 - 15:30	Alexandre Courtiol - <i>An introduction to Isorix I</i>	
<b>15:30 - 16:00</b>	<b>Coffee break</b>	

16:00 - 17:30	Alexandre Courtiol - <i>An introduction to Isorix II</i>
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<b>Friday, 14.09.2018</b>	<b>Focus: Data analysis</b>
9:00 - 10:30	Analysis of data (with lecturer)
<b>10:30 - 11:00</b>	<b>Coffee break</b>
11:00 - 12:30	Analysis of data (with lecturer)
<b>12:30 - 14:00</b>	<b>Lunch break/alternatively institutional seminar with Gabe Bowen (title TBA)</b>
14:00 - 15:30	Analysis of data (with lecturer)
15:30	<b>End of summer school</b>