MANTEL WORKSHOP 2
Understanding Methods and Tools Used for
High Frequency Data Analysis
LakeLab
Neuglobsow, Germany
19th-23rd February 2018

SUNDAY 18th FEBRUARY

Delegates arrive throughout the day

DAY 1, MONDAY 19th FEBRUARY

7.30	*Breakfast*	
9.00	Welcome, introductions and training school overview	Eleanor Jennings
9.15	Overview of data analysis and tools used for high frequency data analysis	Biel Obrador
10.30	*Coffee break*	
11.00	Introduction to Lake Analyser and Lake Heat Flux Analyser	Iestyn Woolway
12.00	**Ad Hoc Time**	
13.00	*Lunch*	
14.00	Using Lake Analyser in R – Hands-on session	Iestyn Woolway
15.30	*Coffee break*	
16.00	Supervisor-ESR catch-ups	All
17.00	**Ad Hoc/Exercise Time**	
18.00	*Dinner*	
19.00	ESRs meet with Eleanor and Biel	

Day 2, TUESDAY 20TH FEBRUARY		
7.30	*Breakfast*	
9.00	An introduction to time series analysis	Rafa Marcé
10.30	*Coffee break*	
11.00	Time series data analysis – Hands on session	Rafa Marcé
12.00	**Ad Hoc Time**	
13.00	*Lunch*	
14.00	Group discussion on defining mixing events	Iestyn Woolway
15.00	Outline of ESR group task (to present on Friday)	Eleanor Jennings
15.30	*Coffee break*	
16.00	ESR writing group starting session	Rita Adrian
17.00	**Ad Hoc/Exercise Time**	
18.00	*Dinner*	
19.00	Career progression from PhD to Postdoc Supervisor-ESR discussions as required	Pablo Cordero

DAY 3, WEDNESDAY 21st FEBRUARY		
7.30	*Breakfast*	
9.00-09.30	Introduction to the LakeLab and its role in international networks such as the AQUACOSM Project	Berger, Nejstgaard All
9.30-10.30	Visit to Lakelab - in two paralell groups.	Berger, Nejstgaard All
10.30	*Coffee break*	
11.00-12.00	Presentation of previous and ongoing LakeLab Projects	Grossart, Berger, Nejstgaard, All
12.00	*Lunch*	
13.00-14.00	Discussion on potential use of LakeLab related data	Grossart, Berger, Nejstgaard, All
14.00	*Coffee break*	
14.30-15:30	Presentation of autonomous datenlogger for *in-situ* measurements in water bodies	All
15.30	ESRs present on own PhD projects Session 1 (10 minute talks with 5 minutes for questions)	ESRs
18.00	*Dinner*	
19.00	Team building exercise: Personality Traits	Lisette de Senerpont Domis & Cleo Stratman

DAY 4, THURSDAY 22nd FEBRUARY		
7.30	*Breakfast*	
9.00	Data exploration and testing model assumptions in R	Eleanor Jennings
10.30	*Coffee break*	
11.00	Background for LM and GAM: Introduction and hands-on exercises in R	Eleanor Jennings
12.00	Ad Hoc Time	
13.00	*Lunch*	
14.00	ESRs present on own PhD projects Session 2 (10 minute talks with 5 minutes for questions)	ESRs
15.30	*Coffee break*	
16.00	General Mantel science-based discussion	All
17.00	Ad Hoc/Exercise time	
18.00	*Dinner*	
19.00	Supervisors present their Thesis in Three PARTY	Supervisors

DAY 5, FRIDAY 23rd FEBRUARY		
8.00	*Breakfast*	
9.30	Supervisory Board Meeting	Supervisory Board
	ESRs finalise group task/ Ad Hoc time	ESRs
1100	ESRs present group task	ESRs
	Closing Statements	Eleanor Jennings/ All
13.00	*Lunch*	
14.00	Workshop Closes	