

Spatial modelling of cetacean abundance and habitat use

24-28 January 2011, Freemantle

31 Jan - 4 Feb 2011, Port Lincoln

Workshop Programme

Day 1	Monday (24 Jan / 31 Jan)
09:00 - 10:30	Welcome 1. What is spatial/habitat modelling and why are we here? (PSH)
10:30 - 11:00	BREAK
11:00 - 12:00	2. Introduction to distance sampling and survey design (PSH)
12:00 - 13:00	3. Introduction to data requirements, processing and organisation (AC)
13:00 - 14:00	LUNCH
14:00 - 18:00	4. Survey data collection (Practical)

Day 2	Tuesday (25 Jan / 1 Feb)
08:30 - 10:30	5. Processing and organising survey data (AC + Practical)
10:30 - 11:00	BREAK
11:00 - 12:00	6. Introduction to spatial/habitat modelling (PSH)
12:00 - 13:00	7. Demonstration of fitting spatial/habitat models in R (AC)
13:00 - 14:00	LUNCH
14:00 - 15:30	8. Fitting spatial/habitat models in R (Practical)
15:30 - 16:00	BREAK
16:00 - 18:00	8. Fitting spatial/habitat models in R (Practical) - continued

Day 3	Wednesday (26 Jan / 2 Feb)
08:30 - 09:30	9. Estimation of detection probability (PSH)
09:30 - 10:30	10. Demonstration of using DISTANCE to fit detection functions (AC)
10:30 - 11:00	BREAK
11:00 - 13:00	11. Using DISTANCE to fit detection functions (Practical)
13:00 - 14:00	LUNCH
14:00 - 15:30	12. Demonstration of fitting spatial abundance models in R (AC)
15:30 - 16:00	BREAK
16:00 - 18:00	13. Fitting spatial abundance models in R (Practical) – continued

Day 4	Thursday (27 Jan / 3 Feb)
08:30 - 09:30	14. The real world: data collection and example studies (AC)
09:30 - 10:30	15. Fitting spatial/habitat/abundance models to real data (AC, Practical)
10:30 - 11:00	BREAK
11.00 - 13:00	15. Fitting spatial/habitat/abundance models to real data (Practical) - continued
13:00 - 14:00	LUNCH
14:00 - 15:30	16. Additional analytical considerations (PSH) 17. Estimating precision using bootstrapping (AC)
15:30 - 16:00	BREAK
16.00 - 18:00	18. Fitting spatial/habitat/abundance models (Practical)

Day 5	Friday (28 Jan / 4 Feb)
08:30 - 10:30	18. Fitting spatial/habitat/abundance models (Practical) - continued
10:30 - 11:00	BREAK
11.00 - 13:00	18. Fitting spatial/habitat/abundance models (Practical) - continued
13:00 - 14:00	LUNCH
14:00 - 15:30	19. Discussion of results
15:30 - 16:00	BREAK
16.00 - 18:00	20. Final discussion and Close

Programs needed for analysis:

DISTANCE: <http://www.ruwpa.st-and.ac.uk/distance/>

R: <http://www.r-project.org/index.html>

Tinn-R: <http://sourceforge.net/projects/tinn-r/>