

Schedule
Advanced Techniques and Recent Developments in Distance Sampling
The Observatory, University of St. Andrews
24-28 August 2009

Monday 24 August

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|-------|--|
| 08:30 | Registration (in Observatory) |
| 09:00 | Welcome
Introduction to new developments, plus quick recap of main ideas of distance sampling
Introduction to Distance 6's advanced features |
| 10:45 | Coffee/tea |
| 11:00 | Multiple covariate distance sampling (MCDS)
Computer session: MCDS |
| 12:45 | Lunch |
| 14:15 | Computer session: MCDS (continued)
Double-platform (mark-recapture distance sampling MRDS) |
| 16:00 | Coffee/tea |
| 16:15 | Computer session: MRDS |
| 18:00 | Adjourn |

Tuesday 25 August

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| 09:00 | Automated survey design |
| 10:45 | Coffee/tea |
| 11:00 | Computer session: Automated survey design |
| 12:45 | Lunch |
| 14:15 | Advanced stratification
Adaptive sampling
Participants' data sets or practical exercises |
| 16:00 | Coffee/tea |
| 16:15 | Temporal inferences
Participants' data sets or practical exercises |
| 18:00 | Adjourn |

Wednesday 26 August

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| 09:00 | Current research directions |
| 10:45 | Coffee/tea |

11:00	Special topic discussion groups / Computer session / Further material by request
12:45	Lunch
14:15	Introduction to density surface modelling; rationale; modelling tools; and data formatting issues
16:00	Coffee/tea
16:30	Computer session; construct Distance project; fit detection functions to data
18:00	Adjourn

Thursday 27 August

09:00	Conventional distance sampling; specifying response surfaces; fitting GAMs
10:45	Coffee/tea
11:00	Model selection Computer session; model fitting with fabricated covariates
12:45	Lunch
14:15	Prediction and prediction grids Computer session: ArcGIS/R for populating prediction grids
16:00	Coffee/tea
16:15	Computer exercise: prediction and examining response surfaces
18:00	Adjourn

Friday 28 August

09:00	Variance estimation; uncertainty added to predictions from fitting detection functions Computer session: bootstrap variance
10:45	Coffee/tea
11:00	Other estimated quantities as the response variable Future directions Computer exercise: variance estimation results and summary
12:45	Lunch
14:15	Summary of density surface modelling Special topics (chosen by participants)
15:30	Coffee/tea
15:45	Work with participants data Workshop summary
17:00	Workshop ends