

ASI/ EcAp workshop on the Estimation of Cetacean Abundance and Survival Rate

Day 1 – 24 June 2019

08:00 - 09:00	1. Introduction to Workshop (including opening speeches by ASI, EcAp and CNRS?)
09:00 – 10:00	2. Introduction to mark-recapture methods: Capture and marking, basis of population size estimation, method assumptions
10:00 – 10:30	BREAK
10:30 – 11:30	3. Photo-id data collection and processing: Sampling design, survey protocols, turning photos into data
11:30 -13:00	4. Two-sample population size estimation (practical): Simple data exploration and analysis in <i>Excel</i>
13:00 – 14:30	LUNCH
14:30 – 15:30	5. Mark-recapture data analysis – closed population models: Open and closed models, heterogeneity of capture probabilities, selecting the best model
15:30 – 16:00	6. Multi-sample population size estimation using closed models (practical): Data analysis in <i>MARK</i>
16:00 – 16:30	BREAK
16:30 – 18:00	6 (continued): Data analysis in <i>MARK</i> , continued

Day 2 – 25 June 2019

08:30 – 09:15	7. Mark-recapture data analysis – open population models: Estimating survival rates and population size from long-term datasets
09:15 – 10:00	8. Survival rate and population size estimation using open models (practical): Data analysis in <i>MARK</i>
10:00 – 10:30	BREAK
10:30 – 12:00	8 (continued): Data analysis in <i>MARK</i> , continued
12:00 – 13:00	9. Introduction to line transect sampling, including survey design
13:00 – 14:30	LUNCH
14:30 – 16:00	10. Designing a line transect survey (practical): Using <i>DISTANCE</i> to design a survey
16:00 – 16:30	BREAK
16:30 – 18:00	11. Line transect data collection: Factors to be considered, establishing a protocol, introduction to survey practical

Day 3 – 26 June 2019

08:30 – 11:00	12. Line transect survey (practical): Estimating the number of plastic wall-plugs on a football field
11:00 – 11:30	BREAK
11:30 – 13:00	12 (continued). Organization of data from survey (practical): Transcribing survey data into <i>Excel</i>
13:00 – 14:30	LUNCH
14:30 – 15:00	12 (continued). Entering survey data into <i>DISTANCE</i> (practical)
15:00 – 16:00	13. Line transect data analysis, part 1: Detection function models, data truncation, selecting the best model
16:00 – 16:30	BREAK
16:30 – 18:00	14. Estimating abundance using <i>DISTANCE</i>, part 1 (practical): Data analysis

Day 4 – 27 June 2019

08:30 – 09:00	15. Line transect data analysis, part 2: Adding covariates to detection function models, estimating variance
	16. Estimating abundance using <i>DISTANCE</i>, part 2 (practical): Data analysis continued
10:00 – 10:30	BREAK
10:30 – 12:00	16 (continued): Data analysis continued
13:00 – 14:30	LUNCH
14:30 – 16:00	17. Debrief on analysis of survey data: Take home messages, application to real surveys
16:00 – 16:30	BREAK
16:30 – 18:00	18. Conclusions and close of workshop