

ANIMAL TRACKING SPATIAL ENVIRONMENT ANALYSER: A FLEXIBLE APPROACH TO THE ANALYSIS AND VISUALISATION OF ANIMAL MOVEMENT DATA

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A software package (HeardMap) was developed to analyse and present the movements of seals and penguins around Heard Island in near real time. This program produced foraging intensity maps that could be used to guide the Aurora Australis to potential foraging areas in order to conduct acoustic and trawl surveys of the prey fields. This work led to the development of a more flexible modular program know as AT-SEA (Animal Tracking Spatial Environment Analyser). Included in this program are new techniques for location interpolation and dive bout detection. This new system will eventually integrate satellite acquired location data, animal-borne logged data, oceanographic data and remote sensed data in an open framework. In this presentation I will give an overview of the functionality available in these applications and demonstrate their use.