ANNEX 7

SCIENTIFIC DATA INVENTORY

TOPICS

1. Shipboard research

SHIP'S NAME
CRUISE IDENTIFICATION
AGENCY
DATES AND CRUISE DETAILS
STUDY AREA
CRUISE OBJECTIVE
SCIENTIFIC OBJECTIVES
SAMPLING PROGRAM
DATA REDUCTION AND ANALYSIS
AVAILABILITY OF DATA
REQUESTS FOR DATA
CRUISE TRACK

2. Shorebased and other research

PROJECT TITLE
AGENCY
DATES
STUDY AREA
SCIENTIFIC OBJECTIVES
SAMPLING PROGRAM
DATA REDUCTION AND ANALYSIS
AVAILABILITY OF DATA
REQUESTS FOR DATA

EXAMPLE

M.V. Nella Dan	#1 FIBEX (First International BIOMASS Experiment)		
Agency	Antarctic Division, Department of Science & Technology		
Dates and Cruise Details	Departed Melbourne	9	January 1981
	Arrived study area	18	January
	Departed study area	13	March
	Arrived Melbourne	28	March
	Marine research undertaken over 28 days between 18 January and 13 March.		
Study Area	South of 60°S to the Antarctic continent between 60°E and 90°E.		
Cruise objectives	Participate in First International BIOMASS Experiment. Deliver cargo and passenger to Davis and Mawson.		
Scientific objectives	- Accoustic survey for quantitative estimation of krill and other zooplankton. - Trawling for target identification and assessment. - Oceanography, circulation patterns, geostropic flow. - Survey of phytoplankton. - Seabird distribution and abundance.		
Sampling Program	- Midwater trawls for zooplankton. Rectangular Midwater Trawl ($8m^2$) blind (36) and aimed (23) hauls. Bongo net and conical nets (61 oblique tows). - Hydrographic stations (52 CTD stations to 2000m or bottom). Conductivity, temperature, depth. Expendable bathy thermographs (86 probes to 450m). - Phytoplankton – Rosette water sampling at 52 CTD + 6 other stations. - Seabirds – observed 10 mins/hour for all daylight hours. - Accoustic survey 9000 n miles. Quantitative echosounding 0–250 m at 120 KHz and 38 KHz.		

	Trawling and hydrographic stations taken at approximately same position and time and as close as possible to solar noon and solar midnight.
Data Reduction and Analysis	Zooplankton. Catch weighed then sorted into major groups and then to species wherever possible. *E. superba* was sub-sampled and sorted for sex and maturity. Length frequency determined on separate sub-samples. Phytoplankton. Light microscopy on material for enumeration and identification. Preservation of material for later analysis and taxonomic studies by electron microscopy. Quantitative chemical analysis for pigments including chlorophyll. Oceanography. Full set salinity and temperature data at standard depths for each station. Continuous CTD data available. XBT data for each drop available for standard depths. Seawater analysis. Sea birds. Distribution and abundance of all species observed.
Availability of Data	Published data – Full zooplankton data available, Williams et al. (1983). Oceanographic data available on request for each station and standard depths. Magnetic tape – Full FIBEX data set including accoustic, trawling and oceanographic data recorded on magnetic tape in the formats required for the Post-FIBEX data workshop in Hamburg. Partial data set on phytoplankton. These data as a general principle are available to scientific organisations on an exchange basis.

Requests for Data	Published data, data reports etc. are available on request. Data stored on magnetic tape will in general be made available on request providing proprietorial rights of the Antarctic Division and the appropriate scientists are respected. Requests for data should be made to the – Director Antarctic Division Channel Highway KINGSTON TAS. 7150
Cruise Track	To be attached.