

Aurora Australis JGOFS Cruises in the Southern Ocean Cruise Summary: AU9101

Oceanographic measurements were conducted along the WOCE Southern Ocean meridional section SR3 Tasmania and Antarctica from September to October 1991. Water bottle samples were collected for the measurement of salinity, dissolved oxygen, nutrients, dissolved inorganic carbon, primary productivity, and biological parameters using both a 24 and a 12 bottle rosette sampler. Fluorescence and PAR profiles were collected within half an hour of the CTD casts using a Sea Bird CTD and a Sea Tech fluorometer.

Data included in this JGOFS data report include CTD, nutrients, HPLC chlorophyll-a, photosynthetic parameters determined using a production vs irradiance technique, and modelled water column primary production along the SR3 transect. The fluorescence profiles from each station were converted to chlorophyll-a profiles using the discrete depth HPLC chlorophyll-a samples from the same station.