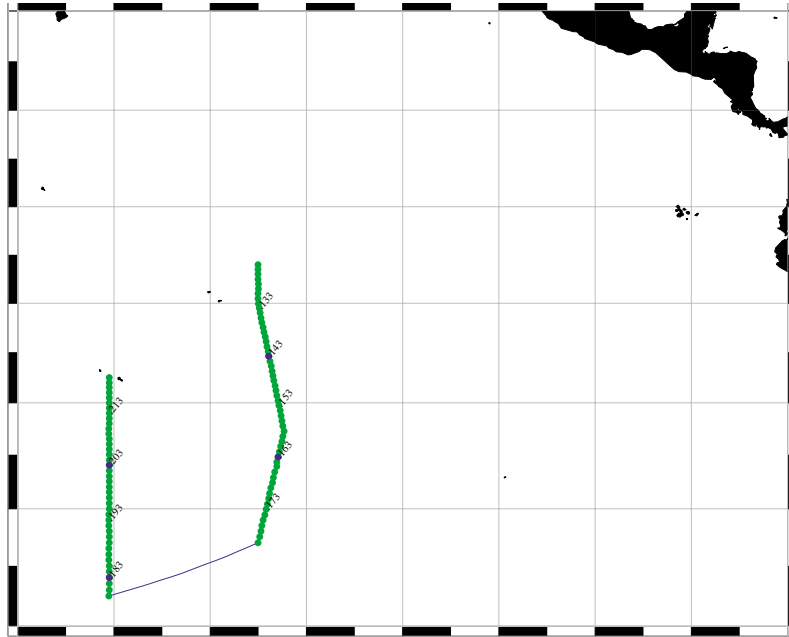


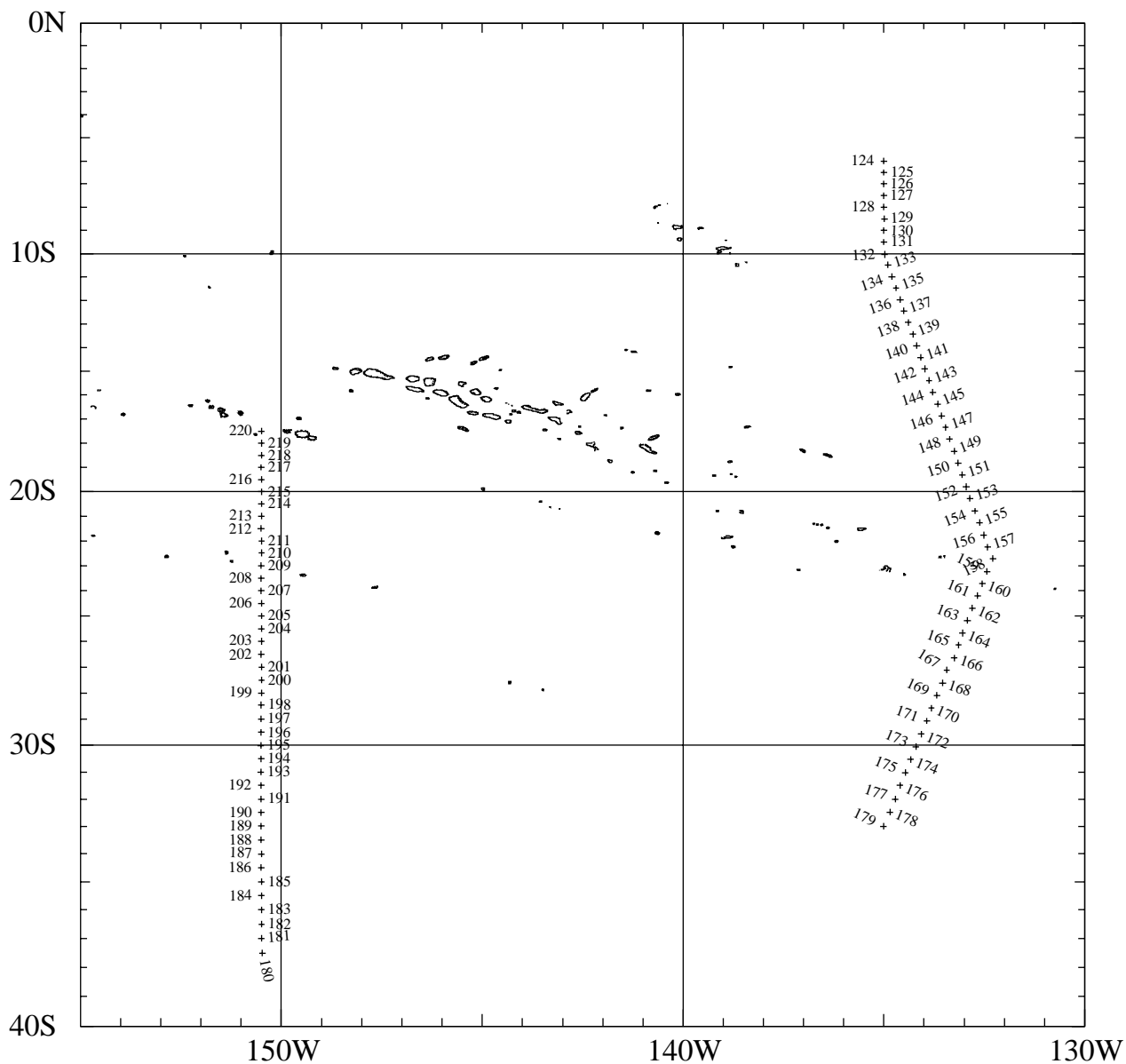
A. Cruise Narrative: P16S and P17S (Tunes 2)



A.1. Highlights

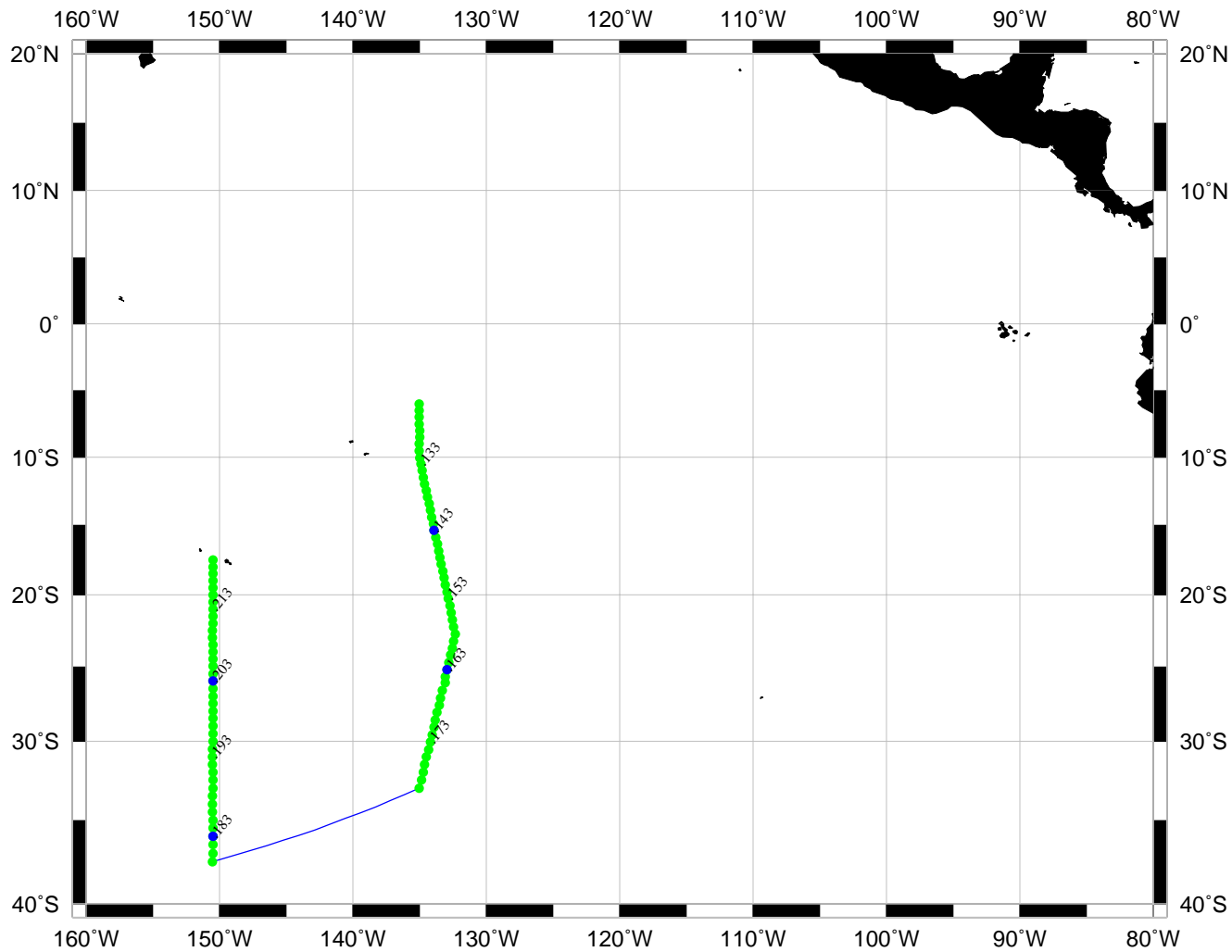
WHP Cruise Summary Information

WOCE line designation	P16S and P17S	
Expedition designation (ExpoCode)	31WTTUNES_2	
Chief scientist and affiliation	James H. Swift/SIO*	
Ship	R/V Thomas Washington	
Cruise dates	1991.JUL.16 1991.AUG.25	
Ports of call	Papeete, Tahiti, French Polynesia	
Number of stations	P16S	41 CTD/rosette stations, (4 with Gerard casts)
	P17S	56 CTD/rosette stations, (6 with Gerard casts)
Geographic boundaries	4° 0.0' S 151° 0.0' W 137° 0.0' W 38° 0.0' S	
Floats and drifters deployed	12 ALACE floats deployed	
	12 "Niiler" type surface drifters deployed	
Moorings deployed or recovered	0	
*Scripps Institution of Oceanography	tel:	(619) 534-3387
University of California, San Diego	fax:	(619) 534-7383
9500 Gilman Dr. Mail Code 0214	omnet:	J.SWIFT
La Jolla CA 92093-0214 USA	internet:	jswift@ucsd.edu



WOCE Pacific 91 P17, P16 R/V Thomas Washington
Mercator Projection

P16S_P17S Station Positions



Produced from .sum file by WHPO-SIO

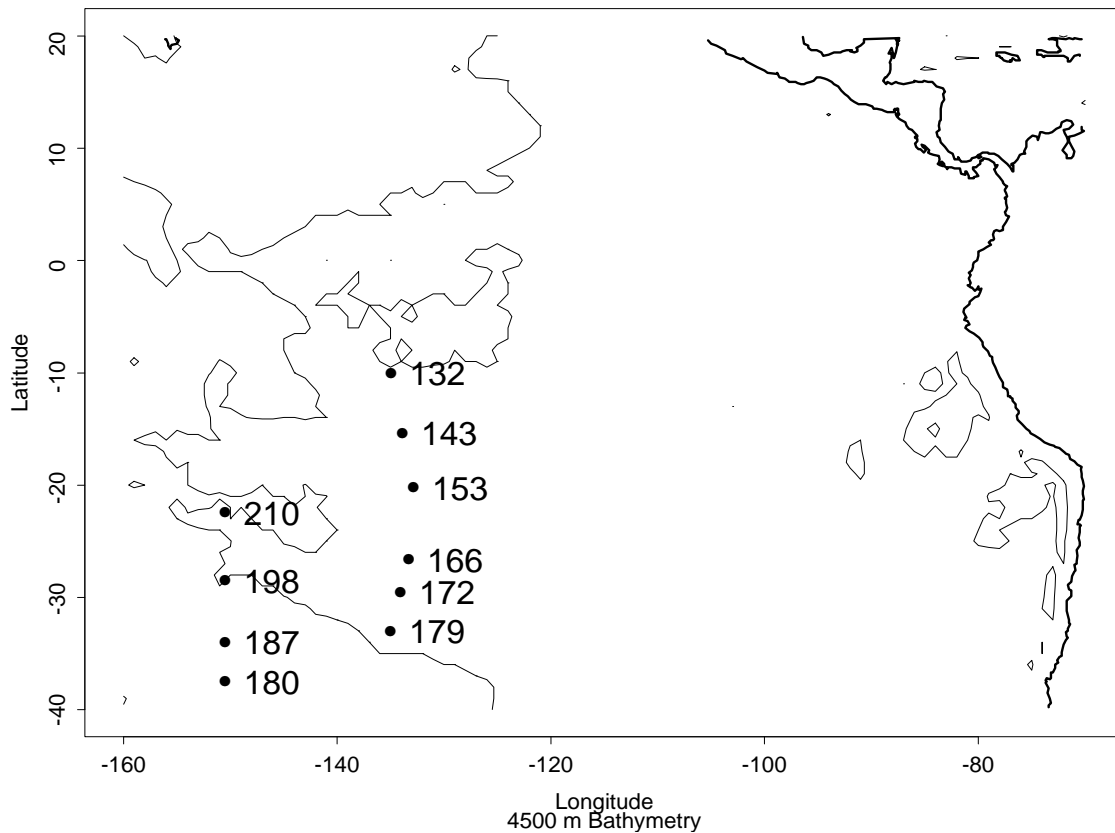


Figure 1: P16S17S large volume station locations.

ly half of the Gerard-Niskin pairs were sampled for other nutrients (nitrate, nitrite and phosphate) Additionally, each Gerard was sampled for radiocarbon. The salinity and silicate samples from the piggyback bottle were used for comparison with the Gerard barrel values to verify the Gerard sample integrity. As samples were collected, the information was recorded on a log sheet. Any abnormalities with sampler or sample collection were also noted. Hydrographic data were entered into the shipboard data system and processed as the analyses were completed. The bottle data were brought to a usable, though not final, state at sea. Data checking included verification that the sample was assigned the correct depth. Salinity and nutrient data were compared by ODF with values from adjacent stations and with the rosette cast data from the same station. Any comments regarding the water samples were investigated. The raw data computer files were also checked for entry errors.

2.0 Personnel

LV sampling for this cruise was under the direction of the principal investigator, Robert M. Key (Princeton). All LV ^{14}C extractions at sea were done by Rich Rotter (Princeton). Deck work and reading thermometers was done by the SIO CTD group with assistance from many of the scientific party. Salinities and nutrients were analyzed ODF/SIO