

# A U.S. JGOFS PROCESS STUDY IN THE EQUATORIAL PACIFIC. PART 2

VOLUME 43, NO. 4-6, 1996

## CONTENTS

D. E. HARRISON	687	Vertical velocity in the central tropical Pacific: a circulation model perspective for JGOFS
D. V. HANSEN and M. S. SWENSON	707	Mixed layer circulation during EqPac and some thermochemical implications for the equatorial cold tongue
M.-H. RADENAC and M. RODIER	725	Nitrate and chlorophyll distributions in relation to thermohaline and current structures in the western tropical Pacific during 1985-1989
E. S. JOHNSON	753	A convergent instability wave front in the central tropical Pacific
D. E. ARCHER, T. TAKAHASHI, S. SUTHERLAND, J. GODDARD, D. CHIPMAN, K. RODGERS and H. OGURA	779	Daily, seasonal and interannual variability of sea-surface carbon and nutrient concentration in the equatorial Pacific Ocean
R. R. BIDIGARE and M. E. ONDRUSEK	809	Spatial and temporal variability of phytoplankton pigment distributions in the central equatorial Pacific Ocean
F. P. CHAVEZ, K. R. BUCK, S. K. SERVICE, J. NEWTON and R. T. BARBER	835	Phytoplankton variability in the central and eastern tropical Pacific
M. R. LANDRY, J. KIRSHTEN and J. CONSTANTINO	871	Abundances and distributions of picoplankton populations in the central equatorial Pacific from 12°N to 12°S, 140°W
M. D. DURAND and R. J. OLSON	891	Contributions of phytoplankton light scattering and cell concentration changes to diel variations in beam attenuation in the equatorial Pacific from flow cytometric measurements of pico-, ultra- and nano-plankton
B. J. BINDER, S. W. CHISHOLM, R. J. OLSON, S. L. FRANKEL and A. Z. WORDEN	907	Dynamics of picophytoplankton, ultraphytoplankton and bacteria in the central equatorial Pacific
R. T. BARBER, M. P. SANDERSON, S. T. LINDLEY, FEI CHAI, J. NEWTON, C. C. TREES, D. G. FOLEY and F. P. CHAVEZ	933	Primary productivity and its regulation in the equatorial Pacific during and following the 1991-1992 El Niño
W. M. BALCH and K. KILPATRICK	971	Calcification rates in the equatorial Pacific along 140°W
S. E. FITZWATER, K. H. COALE, R. M. GORDON, K. S. JOHNSON and M. E. ONDRUSEK	995	Iron deficiency and phytoplankton growth in the equatorial Pacific

E. R. ZETTLER, R. J. OLSON, B. J. BINDER, S. W. CHISHOLM, S. E. FITZWATER and R. M. GORDON	1017	Iron-enrichment bottle experiments in the equatorial Pacific: responses of individual phytoplankton cells
FEI CHAI, S. T. LINDLEY and R. T. BARBER	1031	Origin and maintenance of a high nitrate condition in the equatorial Pacific
J. J. McCARTHY, C. GARSIDE, J. L. NEVINS and R. T. BARBER	1065	New production along 140°W in the equatorial Pacific during and following the 1992 El Niño event
J. W. MURRAY, J. YOUNG, J. NEWTON, J. DUNNE, T. CHAPIN, B. PAUL and J. J. McCARTHY	1095	Export flux of particulate organic carbon from the central equatorial Pacific determined using a combined drifting trap- <sup>234</sup> Th approach
M. P. BACON, J. K. COCHRAN, D. HIRSCHBERG, T. R. HAMMAR and A. P. FLEER	1133	Export flux of carbon at the equator during the EqPac time-series cruises estimated from <sup>234</sup> Th measurements
E. T. PELTZER and N. A. HAYWARD	1155	Spatial and temporal variability of total organic carbon along 140°W in the equatorial Pacific Ocean in 1992
P. J. HERNES, J. I. HEDGES, M. L. PETERSON, S. G. WAKEHAM and C. LEE	1181	Neutral carbohydrate geochemistry of particulate material in the central equatorial Pacific
SUNG PYO CHUNG, W. D. GARDNER, M. J. RICHARDSON, I. D. WALSH and M. R. LANDRY	1205	Beam attenuation and micro-organisms: spatial and temporal variations in small particles along 140°W during the 1992 JGOFS EqPac transects
P. G. VERITY, D. K. STOECKER, M. E. SIERACKI and J. R. NELSON	1227	Microzooplankton grazing of primary production at 140°W in the equatorial Pacific
J. M. WATKINS, A. C. MIX and J. WILSON	1257	Living planktic foraminifera: tracers of circulation and productivity regimes in the central equatorial Pacific
J. DYMOND and R. COLLIER	1283	Particulate barium fluxes and their relationships to biological productivity
C. R. SMITH, D. J. HOOVER, S. E. DOAN, R. H. POPE, D. J. DEMASTER, F. C. DOBBS and M. A. ALTABET	1309	Phytodetritus at the abyssal seafloor across 10° of latitude in the central equatorial Pacific
R. H. POPE, D. J. DEMASTER, C. R. SMITH and H. SELTMANN Jr	1339	Rapid bioturbation in equatorial Pacific sediments: evidence from excess <sup>234</sup> Th measurements
D. E. HAMMOND, J. McMANUS, W. M. BERELSON, T. E. KILGORE and R. H. POPE	1365	Early diagenesis of organic material in equatorial Pacific sediments: stoichiometry and kinetics
L. A. WELLING, N. G. PISIAS, E. S. JOHNSON and J. R. WHITE	1413	Distribution of polycystine radiolaria and their relation to the physical environment during the 1992 El Niño and following cold event
	1435	Erratum