

## CARBON TIME SERIES STATIONS: PACIFIC

International Ocean Carbon Coordination Project ([www.ioccp.org](http://www.ioccp.org))

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Mooring/Station/ Ship name	Date of operation	Location	Description	Frequency (i.e. monthly, continuous)	PI	Country
<b>Pacific</b>						
<b>Stations monitored from ships</b>						
NE Pacific OSP / Line P	1970's-	50N,145W	DIC/T Alk at 5 stations along Line P (Miller). pCO <sub>2</sub> (Wong)	3/year	C.S. Wong L. Miller	Canada
K2	2001-	47N,160E	0 - bottom, 36 layers DIC, TA, pH, CFCs	2 – 3/year	M. Honda M. Wakita	Japan
A-line (A4, A7)	1996-	42.25°N, 145.125°E (A4) and 41.50°N, 145.50°E (A7)	DIC, TA, 13C 0 - 3000m, 12 layers *part of A-line monitoring program ( <a href="http://ss.hnf.affrc.go.jp/a-line/index_e.html">http://ss.hnf.affrc.go.jp/a-line/index_e.html</a> ) *reference: Ono et al., JO 61, 1075-1088, 2005.	4-6/year	T. Ono	Japan
Santa Monica Bay, CA	2003-	33.9N, 118.7 N		Bi weekly	A. Leinweber	USA
NW Pacific HOT	1988-	22.75N,158W	shipboard cruises	Monthly	D. Karl	USA
SEATS	1999-	115.67°E 18.25°N (in the South China Sea)	Dissolved inorganic carbon and total alkalinity are measured at 25 discrete depths throughout the water column (from surface to 3500m).	Seasonal	W.-C. Chou	China (Taiwan)
Munida time series transect	Jan 1998-	SW Pacific	Surface transect (45.77S 170.72E – 45.83S 170.50E), water column measurements at 45.83S 170.50E	6 per year	K. Currie	New Zealand

JMA's monitoring program by RV Ryofu Maru and RV Keifu Maru	2003-	North Pacific 137°E(P9), 30°N-5°N, mostly 5° intervals	DIC, 13C, pH, CFCs* 0 - 2000m, 22 layers * measured in selected cruises	Seasonal Jan-Feb, April- May, June-July, Oct-Nov	M. Ishii S. Minato	Japan
JMA's monitoring program by RV Ryofu Maru and RV Keifu Maru	2003-	North Pacific 165°E(P13), 50°N - 28°N, mostly 2-3° intervals	DIC, TA*, CFCs* 0 - 2000m, 22 layers	Annual June-July	M. Ishii S. Minato	Japan
JMA's monitoring program by RV Ryofu Maru and RV Keifu Maru	2003-	North and Eq Pacific 165°E(P13), 28°N - 3°S, mostly 2-3° intervals	DIC, 13C, pH*, CFCs* 0 - 2000m, 22 layers	Biannual Jan-Feb, June-July	M. Ishii S. Minato	Japan
JMA's monitoring program by RV Ryofu Maru and RV Keifu Maru	2003-	Eq Pacific 165°E - 142°E, 0°, mostly 5° intervals	DIC, pH* 0 - 2000m, 22 layers	Biannual Jan-Feb, June-July	M. Ishii S. Minato	Japan
155E Line	2002 -	North Pacific 155°E, 44°N -0°	0 - bottom, 36 layers DIC, TA, pH, CFCs	~1/year	M. Wakita	Japan
<b>Stations monitored by moorings</b>						
Cape Elizabeth (NDBC 446041)	2006-	47.3N, 124.8W		Continuous	C. Sabine	USA
NW Pacific JKEO	2007-	38N, 146.5E	MAPCO <sub>2</sub> system	Continuous	C. Sabine M. Cronin	USA
California Current MBARI M1	1996-	36.75N, 122W		Continuous	F. Chavez	USA
California Current MBARI M2	1996-	36.75N, 122W		Continuous	F. Chavez	USA
Santa Monica	2002-	33.9N, 118.7 N		Continuous	N. Gruber	USA

NW Pacific KEO	2006-	32N, 145E	MAPCO <sub>2</sub> system	Continuous	C. Sabine M. Cronin	USA
MOSEAN	2005-	22.75N,158W	MAPCO <sub>2</sub> system	Continuous	C. Sabine D. Karl	USA
Kaneohe Bay, Hawaii	2005-	21.4N, 157W		Continuous	C. Sabine	USA
TAO / TRITON	2003-	0, 125W	MAPCO <sub>2</sub> system	Continuous	C. Sabine	USA
TAO / TRITON	2003-	0, 140W	MAPCO <sub>2</sub> system	Continuous	C. Sabine	USA
TAO / TRITON	1997-	0,155W	MBARI pCO <sub>2</sub> system	Continuous	F. Chavez C. Sabine	USA
TAO / TRITON	2005-	0, 170W	MAPCO <sub>2</sub> system	Continuous	C. Sabine	USA
TAO / TRITON	1997-	2S 170W	MBARI pCO <sub>2</sub> system	Continuous	F. Chavez C. Sabine	USA
Stratus	2006-	85W, 20S	MAPCO <sub>2</sub> system	Continuous	C. Sabine R. Weller	USA