

Area Chart & number	Latitude [°N]	Longitude [°E]	Station	Id	Sensor	dt [sec]	Availability
JP 1	44.0172	144.2897	Abashiri	JMA		60	A
JP 2	43.3417	145.5900	Nemuro	JMA		60	A
JP 3	43.280	145.570	Hanasaki,Hokkaido	PTWC/JMA		120	A
JP 4	42.9722	144.3750	Kushiro	JMA		60	A
JP 5	42.1617	142.7750	Urakawa	JMA		60	A
JP 6	41.7792	140.7283	Hakodate	JMA		60	A
JP 7	40.5289	141.5314	Hachinohe	JMA		60	A
JP 8	39.6408	141.9789	Miyako	JMA		60	A
JP 9	39.0167	141.7572	Ofunato	JMA		60	A
JP 10	39.000	141.750	Ofunato,Honshu	PTWC/JMA		120	A
JP 11	38.4167	141.2667	Ishinomaki	JMA		60	A
JP 12	36.9339	140.8953	Onahama	JMA		60	A
JP 13	35.7333	140.0483	Cyoshi	JMA		60	A
JP 14	35.6456	139.7733	Tokyo	JMA		60	A
JP 15	35.5650	140.0483	Chiba	JMA		60	A
JP 16	35.4650	139.6403	Yokohama	JMA		60	A
JP 17	35.2778	139.6797	Yokosuka	JMA		60	A
JP 18	35.1567	139.6183	Aburatsubo			60	A
JP 19	35.1500	139.1500	Manazuru			60	A
JP 20	35.0881	136.8839	Nagoya	JMA		60	A
JP 21	35.0142	138.8986	Uchiura	JMA		60	A
JP 22	35.0086	138.5208	Shimizuko	JMA		60	A
JP 23	34.9500	136.6333	Yokkaichi	JMA		60	A
JP 24	34.9483	139.1383	Ito	JMA		60	A
JP 25	34.9156	139.8281	Tateyama	JMA		60	A
JP 26	34.8667	136.9333	Taketoyo	JMA		60	A
JP 27	34.8667	138.3300	Yaizu	JMA		60	A
JP 28	34.8033	138.7667	Tago			60	A
JP 29	34.8000	140.5167	Boso-Obs3			60	A
JP 30	34.7861	139.3944	Oshima	JMA		60	A
JP 31	34.7500	140.7500	Boso-Obs2			60	A
JP 32	34.6789	137.6119	Maisaka	JMA		60	A
JP 33	34.6500	140.9833	Boso-Obs1			60	A

Area Chart & number	Latitude [°N]	Longitude [°E]	Station	Id	Sensor	dt [sec]	Availability
JP 34	34.6217	138.8900	Minamiizu			60	A
JP 35	34.6053	138.2250	Omaezaki	JMA		60	A
JP 36	34.600	138.230	Omaezaki,Honshu	PTWC/JMA		120	A
JP 37	34.4819	136.8275	Toba	JMA		60	A
JP 38	34.2186	135.1483	Wakayama	JMA		60	A
JP 39	34.2050	139.1367	Kozujima	JMA		60	A
JP 40	34.0733	136.2103	Owase	JMA		60	A
JP 41	34.0600	139.4833	Miyakejima	JMA		60	A
JP 42	34.0058	134.5900	Komatsujima	JMA		60	A
JP 43	33.7667	137.5833	Tokai-Obs			60	A
JP 44	33.6800	135.3786	Shirahama	JMA		60	A
JP 45	33.5547	135.8989	Uragami	JMA		60	A
JP 46	33.4975	133.5786	Kochi	JMA		60	A
JP 47	33.4725	135.7761	Shionomisaki	JMA		60	A
JP 48	33.2631	134.1672	Murotomisaki	JMA		60	A
JP 49	33.1278	139.8083	Hachijyohima	JMA		60	A
JP 50	32.7758	132.9614	Tosashimizu	JMA		60	A
JP 51	32.7758	132.9614	Tosashimizu	PTWC/JMA		120	A
JP 52	32.7311	129.8689	Nagasaki	JMA		60	A
JP 53	32.6833	128.8519	Fukue	JMA		60	A
JP 54	32.6197	130.4539	Misumi	JMA		60	A
JP 55	32.6019	130.1969	Kuchinotsu	JMA		60	A
JP 56	32.4333	131.6667	Hyugashirahama			60	A
JP 57	31.5775	130.5728	Kagoshima	JMA		60	A
JP 58	31.5733	131.4114	Aburatsu	JMA		60	A
JP 59	31.2642	130.2953	Makurazaki	JMA		60	A
JP 60	27.0911	142.1914	Chichijima	JMA		60	A
JP 61	26.220	127.670	Naha,Okinawa	PTWC/JMA		120	A
JP 62	26.2089	127.6675	Naha	JMA		60	A
JP 63	24.3317	124.1558	Ishigakijima	JMA		60	A
HI 1	28.2117	-177.3600	Midway	NOS 1619910	Druck,Aquatrak	15, 60	NA no phone line
HI 2	28.2010	-177.3510	Midway, Hawaii	PTWC	BUB	120	A
HI 3	23.7830	-166.2170	Tern, Fr. Frigate, Hawaii	UHSLC	BUB	120	A

Area Chart & number	Latitude [°N]	Longitude [°E]	Station	Id	Sensor	dt [sec]	Availability
HI 4	21.9600	-159.3700	Nawiliwili, Kauai, Hawaii	PTWC	ENC	120	A
HI 5	21.9550	-159.3567	Nawiliwili	NOS 1611400	Druck,Aquatrak	15, 60	A
HI 6	21.6000	-158.1100	Haleiwa, Oahu, Hawaii	PTWC	ENC	120	A
HI 7	21.4400	-158.1700	Waianae, Oahu, Hawaii	PTWC	ENC	120	A
HI 8	21.4333	-157.7900	Mokuoloe	NOS 1612480	Druck,Aquatrak	15, 60	A
HI 9	21.3232	-157.6715	Makapu`u, Oahu, Hawaii	PTWC	ENC	120	A
HI 10	21.3040	-157.8670	Honolulu, Oahu, Hawaii	PTWC	PTW	120	A
HI 11	21.3033	-157.8650	Honolulu	NOS 1612340	Druck,Aquatrak	15, 60	A
HI 12	20.8980	-156.4720	Kahului, Maui, Hawaii	PTWC	ENC	120	A
HI 13	20.8950	-156.4683	Kahului	NOS 1615680	Druck,Aquatrak	15, 60	A
HI 14	20.8750	-156.6920	Lahaina, Maui, Hawaii	PTWC	PTW	120	A
HI 15	20.0367	-155.8300	Kawaihae	UHSLC	Druck,Aquatrak	15, 60	A
HI 16	19.7300	-155.0567	Hilo	NOS 1617760	Druck,Aquatrak	15, 60	A
HI 17	19.5000	-154.8170	Kapoho, Hawaii, Hawaii	PTWC	ENC	120	A
HI 18	19.2900	166.6183	Wake	NOS 1890000	Druck,Aquatrak	15, 60	A
HI 19	19.2892	166.6213	Wake, Territory	PTWC	BUB,ENC	120,240	A
HI 20	18.9078	-155.2596	Site HI155	PMEL/HURL	BPR	15	A
HI 21	16.7390	-169.5233	Johnston, Territory	PTWC	BUB	120	A
HI 22	16.7383	-169.5300	Johnston Island	NOS 1619000	Druck,Aquatrak	15, 60	A
AK 1	60.5583	-145.7533	Cordova, Ak	NOS 9454050	Druck,Aquatrak	15, 60	A
AK 2	60.1200	-149.4267	Seward	NOS 9455090	Druck,Aquatrak	15, 60	A
AK 3	59.5483	-139.7350	Yakutat	NOS 9453220	Druck,Aquatrak	15, 60	A
AK 4	57.7317	-152.5117	Kodiak	NOS 9457292	Druck,Aquatrak	15, 60	A
AK 5	57.4400	-152.2900	Kodiak, Alaska	PTWC	BUB	120	A
AK 6	57.0517	-135.3417	Sitka	NOS 9451600	Druck,Aquatrak	15, 60	A
AK 7	55.3333	-160.5017	Sand Point	NOS 9459450	Druck,Aquatrak	15, 60	A
AK 8	54.2902	-158.5470	Site AK158N	PMEL	BPR	15	A
AK 9	53.8800	-166.5383	Dutch Hbr,Unalaska	NOS 9462620	Druck,Aquatrak	15, 60	A
AK 10	53.5300	-166.3200	Dutch Hbr,Unalaska, Alaska	PTWC	BUB	120	A
AK 11	53.4233	-157.2777	Site AK157N	PMEL	BPR	15	A
AK 12	52.0392	-158.7513	Site AK158SW	PMEL	BPR	15	A
AK 13	52.0182	-155.7235	Site AK155SE	PMEL	BPR	15	A
AK 14	51.8633	-176.6317	Adak	NOS 9461380	Druck,Aquatrak	15, 60	A

Area Chart & number	Latitude [°N]	Longitude [°E]	Station	Id	Sensor	dt [sec]	Availability
AK 15	51.5200	-176.3800	Adak, Alaska	PTWC	ADR,BUB	120	A
WC 1	48.3667	-124.6117	Neah Bay	NOS 9443090	Druck,Aquatrak	15, 60	A
WC 2	46.7083	-123.9650	Toke Point	NOS 9440910	Druck,Aquatrak	15, 60	A
WC 3	46.2083	-123.7667	Astoria	NOS 9439040	Druck,Aquatrak	15, 60	A
WC 4	45.96	-130.00	Site WC130	PMEL	BPR	15	A
WC 5	44.6250	-124.0433	South Beach	NOS 9435380	IMO,Aquatrak	15, 60	A
WC 6	43.3450	-124.3217	Charleston	NOS 9432780	IMO,Aquatrak	15, 60	A
WC 7	42.7400	-124.4967	Port Orford	NOS 9431647	IMO,Aquatrak	15, 60	A
WC 8	41.7450	-124.1833	Crescent City	NOS 9419750	Druck,Aquatrak	15, 60	A
WC 9	40.7667	-124.2167	No.Spit	NOS 9418767	Druck,Aquatrak	15, 60	A
WC 10	38.9150	-123.7117	Arena Cove	NOS 9416841	Druck,Aquatrak	15, 60	A
WC 11	37.9967	-122.9750	Point Reyes	NOS 9415020	Druck,Aquatrak	15, 60	A
WC 12	37.8067	-122.4650	San Francisco, Ca	NOS 9414290	Druck,Aquatrak	15, 60	A
WC 13	37.7717	-122.2983	Alameda	NOS 9414750	IMO,Aquatrak	15, 60	A
WC 14	36.6050	-121.8883	Monterey Harbor	NOS 9413450	Druck,Aquatrak	15, 60	A
WC 15	35.1683	-120.7533	Port San Luis	NOS 9412110	Druck,Aquatrak	15, 60	A
WC 16	34.0083	-118.5000	Santa Monica	NOS 9410840	Druck,Aquatrak	15, 60	A
WC 17	33.7200	-118.2550	Los Angeles	NOS 9410660	Druck,Aquatrak	15, 60	A
WC 18	32.8667	-117.2583	La Jolla	NOS 9410230	Druck,Aquatrak	15, 60	A
WC 19	32.7133	-117.1733	San Diego	NOS 9410170	Druck,Aquatrak	15, 60	A
SA 1	23.8830	-109.9000	Cabo San Lucas Mexico	UHSLC	ENC	120	A
SA 2	18.7333	-111.0167	Socorro Mexico	UHSLC	IMO	15	NA damage
SA 3	18.7170	-110.0170	Socorro Mexico	PTWC	BUB	120	A
SA 4	-0.4330	-90.2830	Baltra, Galapagos Ecuador	UHSLC	ENC	120	A
SA 5	-0.7520	-90.3070	SantaCruz Ecuador	UHSLC	ENC	240	A
SA 6	-2.2090	-80.9020	La Libertad Ecuador	PTWC	ENC	120	A
SA 7	-4.5833	-81.2833	Talara Peru	PTWC	ENC	120	A
SA 8	-6.9350	-80.7200	Lobos de Afuera Peru	PTWC	ENC	120	A
SA 9	-12.0710	-77.1740	Callao, La-Punta Peru	PTWC	ENC	120	A
SA 10	-18.4720	-70.3350	Arica Chile	PTWC	BUB	120	A
SA 11	-26.2833	-80.1333	San Felix Chile	PTWC	BUB	120	A
SA 12	-27.0580	-70.8340	Caldera Chile	PTWC	BUB	120	A
SA 13	-27.1500	-109.4483	Easter Island	UHSLC	IMO	15	A 60 min could be

Area Chart & number	Latitude [°N]	Longitude [°E]	Station	Id	Sensor	dt [sec]	Availability
SA 14	-27.1530	-109.4480	Easter Chile	PTWC	BUB	120	A
SA 15	-33.0267	-71.6250	Valparaiso, Chile	UHSLC	IMO,Aquatrak	15, 60	A
SA 16	-33.0330	-71.6170	Valparaiso Chile	PTWC	BUB	120	A
CP 1	7.1250	171.3667	Majuro, Marshall Is.	NTF		60	A
CP 2	7.1070	171.3730	Majuro Marshall Islands	UHSLC	ENC	240	A
CP 3	1.9840	-157.4730	Christmas Kiribati	UHSLC	ENC	240	A
CP 4	1.3617	172.9300	Betio, Tarawa, Kiribati	NTF		60	NA no phone-NtimeC
CP 5	1.3580	172.9330	Betio,Tarawa Kiribati	UHSLC	ENC	240	A
CP 6	-2.8010	-171.7180	Kanton Kiribati	UHSLC	ENC	240	A
CP 7	-8.5033	179.2100	Funafuti, Tuvalu	NTF		60	NA no phone-NtimeC
CP 8	-8.518	179.208	Funafuti, Tuvalu	PTWC	ENC	240	A
CP 9	-8.9180	-140.0680	Nuku Hiva Fr. Polynesia	UHSLC	ENC	240	A
CP 10	-9.0010	-158.0510	Penrhyn Cook Islands	UHSLC	ENC	240	A
CP 11	-13.8217	-171.7550	Apia, Western Samoa	NTF		60	A
CP 12	-14.2800	-170.6900	Pago Pago	NOS 1770000	Druck,Digibub	15, 60	A
CP 13	-17.5350	-149.5717	Papeete	NOS 1732417	IMO,Aquatrak	15, 60	A
CP 14	-17.6050	177.4383	Lautoka, Fiji	NTF		60	A
CP 15	-18.1367	178.4250	Suva Fiji	NTF	Aquatrak	60	A
CP 16	-19.0525	-169.9214	Niue Niue	PTWC	BUB	120	A
CP 17	-21.1383	-175.1783	Nuku'alofa, Tonga	NTF		60	NA
CP 18	-21.1920	-159.7690	Rarotonga Cook Islands	UHSLC	ENC	240	A
CP 19	-21.2000	-159.7867	Rarotonga, Cook Is	NTF		60	A
CP 20	-43.941	-176.557	Chatham	PTWC	ENC,SPS	120	A
AU 1	13.4417	144.6533	Guam	NOS 1630000	Druck,Aquatrak	15, 60	NA restore Dec'98
AU 2	13.1611	123.7578	Legaspi Philippines	PTWC	ENC,PRS	120	A
AU 3	9.5120	138.1280	Yap Fed States Micro	UHSLC	ENC	120	A
AU 4	8.7367	167.7383	Kwajalein	NOS 18200001	Druck,Aquatrak	15, 60	A
AU 5	7.3320	134.4640	Malakal, Koror Palau	PTWC	ENC	120	A
AU 6	7.0000	158.2180	Pohnpei Fed States Micro	UHSLC	ENC	240	A
AU 7	-0.5317	166.9067	Nauru	NTF		60	NA no phone-NtimeC
AU 8	-1.0850	154.7680	Kapingamarangi F.S.M.	UHSLC	ENC	240	A
AU 9	-2.0350	147.3750	Lombrum, Manus, PNG	NTF		60	NA ?no phone-NtimeC
AU 10	-9.4267	159.9550	Honiara, Solomon Is.	NTF		60	A

August 25, 1998

2:00 PM

6

Area Chart & number	Latitude [°N]	Longitude [°E]	Station	Id	Sensor	dt [sec]	Availability
AU 11	-12.0117	96.8883	Cocos Is, Australia	NTF		60	NA no phone-NtimeC
AU 12	-12.4719	130.8458	Darwin, NT	NTF		60	A
AU 13	-13.8600	136.4158	Groote, Qld	NTF		60	A
AU 14	-17.7617	168.2917	Port Vila, Vanuatu	NTF		60	A
AU 15	-18.0022	122.2172	Broome, WA	NTF		60	A
AU 16	-19.2783	147.0567	Cape Ferguson, Qld	NTF		60	A
AU 17	-22.2850	166.4330	Noumea New Caledonia	UHSLC	ENC	180	A
AU 18	-23.1617	150.7883	Rosslyn Bay, Qld	NTF		60	A
AU 19	-31.8267	115.7369	Hillarys, WA	NTF		60	NA no phone-NtimeC
AU 20	-32.1506	138.6403	Thevenard, SA	NTF		60	A
AU 21	-33.8719	121.8956	Esperance, WA	NTF		60	A
AU 22	-34.4725	149.9089	Pt. Kembla, NSW	NTF		60	A
AU 23	-35.1097	138.4653	Pt Stanvac, SA	NTF		60	A
AU 24	-38.3458	141.6125	Portland, Vic	NTF		60	A
AU 25	-41.0500	145.9147	Burnie, Tas	NTF		60	A
AU 26	-42.5422	147.9247	Spring Bay, Tas	NTF		60	A
AU 27	-43.9750	168.6167	Jackson Bay, NZ	NTF		60	A

Id - Owners / Station Identification:

HURL: Hawaii Undersea Research Laboratory

JMA: Japanese Meteorological Agency

NOS: National Ocean Service, NOAA

NTF: National Tidal Facility, Australia

PMEL: Pacific Marine Environmental Laboratory, NOAA, includes **HURL** data

PTWC: Pacific Tsunami Warning Center, NWS, includes **JMA** data downloaded via satellite

UHSLC: University of Hawaii Sea Level Center

blank: Owners of individually maintained Japanese stations not available at this time.

Sensors:

ADR: Data from a punch paper tape transmitted via satellite

Aquatrak: Data from AQUATRAK sensor transmitted via modem

BPR: Data from PAROSCIENTIFIC sensor

Druck: Data from DRUCK Sensor stored on 64K RAM pack

IMO: Data from IMO Sensor stored on 64K RAM pack

BUB: Data from BUBBLER gauge transmitted via satellite

ENC: DATA from HANDAR ENCODER transmitted via satellite

PRS: Data from NOS PRESSURE TRANSDUCER transmitted via satellite

PTW: Data from NOS PRIMARY WATER LEVEL transmitted via satellite

blank: not available at this time.

Area Charts

JP: Japan

HI: Hawaii

AK: Alaska

WC: US West Coast

SA: Mexico, Central and South America

CP: South Central Pacific

AU: Australia and South West Pacific

Availability

A: Data available

NA: Not available and reason if known