

HISTORICAL SHORELINE DATA FOR KEY BISCAYNE
PRELIMINARY (FSU) DATA - 10/17/90 ERF/DNR

ID	SURVEY DATE(S)		STATE PLANE COORDINATES FOR DNR MONUMENT		AZIMUTH (DEGREE)	SHORELINE DISTANCE FROM DNR MONUMENT (FEET)	DATUM	SHORELINE		SOURCE SCALE	SOURCE
	YEAR	MONTH	NORTHING (FEET)	EASTING (FEET)				NORTHING (FEET)	EASTING (FEET)		
R- 89	1851	4-5	507601.750	777807.660	5	130.22	MHW	507731.469	777819.125	20000	U.S.C. & G.S.
R- 89	1913		507601.750	777807.660	5	70.92	MHW	507672.406	777813.813	20000	U.S.C. & G.S.
C R- 89	1919		507601.750	777807.660	5	-25.45	MHW	507576.406	777805.375	20000	U.S.C. & G.S.
R- 89	1927	2	507601.750	777807.660	5	77.52	MHW	507678.969	777814.438	20000	U.S.C. & G.S.
R- 89	1935	1	507601.750	777807.660	5	75.87	MHW	507677.313	777814.438	10000	U.S.C. & G.S.
R- 89	1945-1947	3,2	507601.750	777807.660	5	76.71	MHW	507678.156	777814.438	10000	U.S.C. & G.S.
R- 89	1961-1962		507601.750	777807.660	5	169.77	MHW	507770.875	777822.438	24000	U.S.G.S.
R- 89	1971-1974		507601.750	777807.660	5	126.92	MHW	507728.188	777818.688	10000	N.O.S.
R- 89	1980	10	507601.752	777807.656	5	128.64	MHW	0.000	0.000	ELL.7	DNR, B&S
R- 89	1986-1987		507601.750	777807.660	5	168.93	MHW	507770.031	777822.438	24000	U.S.G.S.
R- 90	1851	4-5	507862.430	778782.070	5	130.47	MHW	507992.406	778793.438	20000	U.S.C. & G.S.
R- 90	1913		507862.430	778782.070	5	142.80	MHW	508004.688	778794.500	20000	U.S.C. & G.S.
C R- 90	1919		507862.430	778782.070	5	11.86	MHW	507874.250	778783.000	20000	U.S.C. & G.S.
R- 90	1927	2	507862.430	778782.070	5	119.74	MHW	507981.719	778792.438	20000	U.S.C. & G.S.
R- 90	1935	1	507862.430	778782.070	5	113.97	MHW	507975.969	778792.000	10000	U.S.C. & G.S.
R- 90	1945-1947	3,2	507862.430	778782.070	5	111.51	MHW	507973.531	778791.625	10000	U.S.C. & G.S.
R- 90	1961-1962		507862.430	778782.070	5	73.62	MHW	507935.781	778788.313	24000	U.S.G.S.
R- 90	1971-1974		507862.430	778782.070	5	26.66	MHW	507889.000	778784.250	10000	N.O.S.
R- 90	1986-1987		507862.430	778782.070	5	33.25	MHW	507895.563	778784.813	24000	U.S.G.S.
R- 92	1851	4-5	506788.663	780389.701	90	153.68	MHW	506787.906	780543.375	20000	U.S.C. & G.S.
R- 92	1913		506788.663	780389.701	90	154.05	MHW	506787.906	780543.750	20000	U.S.C. & G.S.
C R- 92	1919		506788.663	780389.701	90	128.61	MHW	506787.906	780518.313	20000	U.S.C. & G.S.
R- 92	1927	2	506788.663	780389.701	90	31.18	MHW	506787.906	780420.875	20000	U.S.C. & G.S.
R- 92	1935	1	506788.663	780389.701	90	141.55	MHW	506787.906	780531.250	10000	U.S.C. & G.S.
R- 92	1945-1947	3,2	506788.663	780389.701	90	139.49	MHW	506787.906	780529.188	10000	U.S.C. & G.S.
R- 92	1961-1962		506788.663	780389.701	90	146.68	MHW	506787.906	780536.375	24000	U.S.G.S.
R- 92	1971-1974		506788.663	780389.701	90	98.05	MHW	506787.906	780487.750	10000	N.O.S.
T- 92	1980	10	506788.663	780389.701	90	98.36	MHW	0.000	0.000		DNR, B&S
C T- 92	1980	10	506788.663	780389.701	90	197.57	NGVD	0.000	0.000		DNR, B&S
R- 92	1986-1987		506788.663	780389.701	90	147.49	MHW	506787.906	780537.188	24000	U.S.G.S.

NOTES: - 1919 MAP HAS HORIZONTAL CONTROL ERRORS AND IS THEREFORE COMMENTED "C".
 - ASSUMED MHW ELEVATION = 1.7 FT NGVD FOR "DNR, B&S" SURVEY DATA.
 - "DNR, APPRX." INDICATES DISTANCES APPROXIMATED FROM PROFILE PLOTS, NOT CALCULATED.
 - 1986-7 USGS MAP DOES NOT CORRESPOND WELL TO DNR AERIAL PHOTOGRAPHS OR SURVEYS IN SEVERAL AREAS.
 - 1970'S NOS DATE REVISED 10/17/90 BY EF.

	R- 93	1851	4-5	505680.309	780473.018	90	193.61	MHW	505680.250	780666.625	20000	U.S.C. & G.S.
	R- 93	1913		505680.309	780473.018	90	97.61	MHW	505680.250	780570.625	20000	U.S.C. & G.S.
C	R- 93	1919		505680.309	780473.018	90	71.80	MHW	505680.250	780544.813	20000	U.S.C. & G.S.
	R- 93	1927	2	505680.309	780473.018	90	24.79	MHW	505680.250	780497.813	20000	U.S.C. & G.S.
	R- 93	1935	1	505680.309	780473.018	90	94.73	MHW	505680.250	780567.750	10000	U.S.C. & G.S.
	R- 93	1945-1947	3,2	505680.309	780473.018	90	130.42	MHW	505680.250	780603.438	10000	U.S.C. & G.S.
	R- 93	1961-1962		505680.309	780473.018	90	143.98	MHW	505680.250	780617.000	24000	U.S.G.S.
	R- 93	1971-1974		505680.309	780473.018	90	167.54	MHW	505680.250	780640.563	10000	N.O.S.
	T- 93	1980	10	505680.309	780473.018	90	153.73	MHW	0.000	0.000		DNR, B&S
	T- 93	1986	2	505680.309	780473.018	90	129.03	MHW	0.000	0.000		DNR, B&S
C	T- 93	1986	2	505680.309	780473.018	90	146.06	NGVD	0.000	0.000		DNR, B&S
	R- 93	1986-1987		505680.309	780473.018	90	139.05	MHW	505680.250	780612.063	24000	U.S.G.S.
	R- 94	1851	4-5	504674.610	780348.240	110	125.34	MHW	504631.688	780466.000	20000	U.S.C. & G.S.
	R- 94	1913		504674.610	780348.240	110	59.75	MHW	504653.813	780404.250	20000	U.S.C. & G.S.
C	R- 94	1919		504674.610	780348.240	110	47.94	MHW	504657.938	780393.188	20000	U.S.C. & G.S.
	R- 94	1927	2	504674.610	780348.240	110	-47.50	MHW	504690.750	780303.563	20000	U.S.C. & G.S.
	R- 94	1935	1	504674.610	780348.240	110	29.13	MHW	504664.500	780375.563	10000	U.S.C. & G.S.
	R- 94	1945-1947	3,2	504674.610	780348.240	110	36.55	MHW	504662.031	780382.563	10000	U.S.C. & G.S.
	R- 94	1961-1962		504674.610	780348.240	110	49.58	MHW	504657.094	780394.625	24000	U.S.G.S.
	R- 94	1971-1974		504674.610	780348.240	110	135.33	MHW	504628.406	780475.438	10000	N.O.S.
	R- 94	1980	10	504674.610	780348.240	110	115.00	MHW	0.000	0.000		DNR, APPRX.
	R- 94	1986-1987		504674.610	780348.240	110	55.54	MHW	504655.469	780400.375	24000	U.S.G.S.
	R- 95	1851	4-5	503732.650	779868.510	110	261.76	MHW	503643.000	780114.438	20000	U.S.C. & G.S.
	R- 95	1913		503732.650	779868.510	110	369.83	MHW	503606.063	780216.000	20000	U.S.C. & G.S.
C	R- 95	1919		503732.650	779868.510	110	412.65	MHW	503591.281	780256.188	20000	U.S.C. & G.S.
	R- 95	1927	2	503732.650	779868.510	110	296.98	MHW	503630.688	780147.438	20000	U.S.C. & G.S.
	R- 95	1935	1	503732.650	779868.510	110	297.98	MHW	503630.688	780148.500	10000	U.S.C. & G.S.
	R- 95	1945-1947	3,2	503732.650	779868.510	110	308.61	MHW	503626.563	780158.313	10000	U.S.C. & G.S.
	R- 95	1961-1962		503732.650	779868.510	110	242.54	MHW	503649.563	780096.375	24000	U.S.G.S.
	R- 95	1971-1974		503732.650	779868.510	110	377.37	MHW	503603.594	780223.125	10000	N.O.S.
	T- 95	1980	10	503732.650	779868.513	120	281.63	MHW	0.000	0.000		DNR, B&S
C	T- 95	1980	10	503732.650	779868.513	120	292.88	NGVD	0.000	0.000		DNR, B&S
	R- 95	1986-1987		503732.650	779868.510	110	333.20	MHW	503618.375	780181.500	24000	U.S.G.S.
	R- 96	1851	4-5	502826.320	779360.340	105	338.33	MHW	502738.000	779686.938	20000	U.S.C. & G.S.
	R- 96	1913		502826.320	779360.340	105	503.14	MHW	502695.313	779846.125	20000	U.S.C. & G.S.
C	R- 96	1919		502826.320	779360.340	105	527.45	MHW	502689.563	779869.750	20000	U.S.C. & G.S.
	R- 96	1927	2	502826.320	779360.340	105	438.24	MHW	502712.563	779783.563	20000	U.S.C. & G.S.
	R- 96	1935	1	502826.320	779360.340	105	436.25	MHW	502712.563	779781.500	10000	U.S.C. & G.S.
	R- 96	1945-1947	3,2	502826.320	779360.340	105	472.28	MHW	502703.531	779816.375	10000	U.S.C. & G.S.
	R- 96	1961-1962		502826.320	779360.340	105	390.51	MHW	502724.844	779737.438	24000	U.S.G.S.
	R- 96	1971-1974		502826.320	779360.340	105	378.12	MHW	502728.156	779725.500	10000	N.O.S.
	T- 96	1980	10	502826.320	779360.338	115	302.97	MHW	0.000	0.000		DNR, B&S
C	T- 96	1980	10	502826.320	779360.338	115	317.39	NGVD	0.000	0.000		DNR, B&S
	T- 96	1986	2	502826.320	779360.338	115	300.57	MHW	0.000	0.000		DNR, B&S
C	T- 96	1986	2	502826.320	779360.338	115	314.39	NGVD	0.000	0.000		DNR, B&S
	R- 96	1986-1987		502826.320	779360.340	105	392.29	MHW	502724.031	779739.063	24000	U.S.G.S.

R- 97	1851	4-5	501693.050	779291.780	120	10.20	MHW	501687.750	779300.500	20000	U.S.C. & G.S.
R- 97	1913		501693.050	779291.780	120	135.96	MHW	501624.594	779409.250	20000	U.S.C. & G.S.
C R- 97	1919		501693.050	779291.780	120	225.23	MHW	501580.281	779486.750	20000	U.S.C. & G.S.
R- 97	1927	2	501693.050	779291.780	120	134.85	MHW	501625.406	779408.438	20000	U.S.C. & G.S.
R- 97	1935	1	501693.050	779291.780	120	139.77	MHW	501622.938	779412.688	10000	U.S.C. & G.S.
R- 97	1945-1947	3,2	501693.050	779291.780	120	172.70	MHW	501606.531	779441.250	10000	U.S.C. & G.S.
R- 97	1961-1962		501693.050	779291.780	120	151.36	MHW	501617.188	779422.750	24000	U.S.G.S.
R- 97	1971-1974		501693.050	779291.780	120	92.19	MHW	501646.750	779371.500	10000	N.O.S.
R- 97	1980	10	501693.052	779291.778	110	84.30	MHW	0.000	0.000		DNR, B&S
C R- 97	1980	10	501693.052	779291.778	110	101.92	NGVD	0.000	0.000		DNR, B&S
R- 97	1986-1987		501693.050	779291.780	120	116.10	MHW	501634.438	779392.000	24000	U.S.G.S.
R- 98	1851	4-5	500639.040	779154.450	115	-127.62	MHW	500692.500	779038.563	20000	U.S.C. & G.S.
R- 98	1913		500639.040	779154.450	115	-91.07	MHW	500676.906	779071.625	20000	U.S.C. & G.S.
C R- 98	1919		500639.040	779154.450	115	46.73	MHW	500618.656	779196.500	20000	U.S.C. & G.S.
R- 98	1927	2	500639.040	779154.450	115	-66.69	MHW	500666.250	779093.563	20000	U.S.C. & G.S.
R- 98	1935	1	500639.040	779154.450	115	-19.92	MHW	500646.563	779136.000	10000	U.S.C. & G.S.
R- 98	1945-1947	3,2	500639.040	779154.450	115	23.82	MHW	500628.500	779175.813	10000	U.S.C. & G.S.
R- 98	1961-1962		500639.040	779154.450	115	74.46	MHW	500607.188	779221.750	24000	U.S.G.S.
R- 98	1971-1974		500639.040	779154.450	115	121.99	MHW	500586.656	779264.625	10000	N.O.S.
R- 98	1980	10	500639.040	779154.450	115	242.75	MHW	0.000	0.000		DNR, B&S
C R- 98	1980	10	500639.040	779154.450	115	267.95	NGVD	0.000	0.000		DNR, B&S
R- 98	1986-1987		500639.040	779154.450	115	287.52	MHW	500516.938	779414.750	24000	U.S.G.S.
R- 99	1851	4-5	499757.570	778622.690	120	154.17	MHW	499680.031	778755.938	20000	U.S.C. & G.S.
R- 99	1913		499757.570	778622.690	120	90.53	MHW	499712.031	778700.938	20000	U.S.C. & G.S.
C R- 99	1919		499757.570	778622.690	120	203.39	MHW	499655.406	778798.563	20000	U.S.C. & G.S.
R- 99	1927	2	499757.570	778622.690	120	92.35	MHW	499711.219	778702.563	20000	U.S.C. & G.S.
R- 99	1935	1	499757.570	778622.690	120	86.69	MHW	499713.656	778697.438	10000	U.S.C. & G.S.
R- 99	1945-1947	3,2	499757.570	778622.690	120	172.32	MHW	499671.000	778771.688	10000	U.S.C. & G.S.
R- 99	1961-1962		499757.570	778622.690	120	242.00	MHW	499636.531	778832.250	24000	U.S.G.S.
R- 99	1971-1974		499757.570	778622.690	120	314.80	MHW	499599.625	778895.000	10000	N.O.S.
R- 99	1980	10	499757.570	778622.691	120	415.46	MHW	0.000	0.000		DNR, B&S
C R- 99	1980	10	499757.570	778622.691	120	760.00	NGVD	0.000	0.000		DNR, B&S
R- 99	1986	2	499757.570	778622.691	120	474.00	MHW	0.000	0.000		DNR, B&S
C R- 99	1986	2	499757.570	778622.691	120	561.54	NGVD	0.000	0.000		DNR, B&S
R- 99	1986-1987		499757.570	778622.690	120	495.46	MHW	499509.375	779051.500	24000	U.S.G.S.
R-100	1851	4-5	498831.600	778174.170	115	402.65	MHW	498660.969	778538.875	20000	U.S.C. & G.S.
R-100	1913		498831.600	778174.170	115	206.47	MHW	498743.844	778361.063	20000	U.S.C. & G.S.
C R-100	1919		498831.600	778174.170	115	255.12	MHW	498723.344	778405.188	20000	U.S.C. & G.S.
R-100	1927	2	498831.600	778174.170	115	188.46	MHW	498751.219	778344.625	20000	U.S.C. & G.S.
R-100	1935	1	498831.600	778174.170	115	173.04	MHW	498757.813	778330.688	10000	U.S.C. & G.S.
R-100	1945-1947	3,2	498831.600	778174.170	115	202.03	MHW	498745.500	778356.938	10000	U.S.C. & G.S.
R-100	1961-1962		498831.600	778174.170	115	146.44	MHW	498769.281	778306.688	24000	U.S.G.S.
R-100	1971-1974		498831.600	778174.170	115	257.64	MHW	498721.688	778407.188	10000	N.O.S.
T-100	1980	10	498831.600	778174.170	115	276.21	MHW	0.000	0.000		DNR, B&S
C T-100	1980	10	498831.600	778174.170	115	295.47	NGVD	0.000	0.000		DNR, B&S
R-100	1986-1987		498831.600	778174.170	115	328.12	MHW	498692.156	778471.188	24000	U.S.G.S.

	R-101	1851	4-5	497897.330	777866.620	110	481.23	MHW	497732.188	778318.625	20000	U.S.C. & G.S.
	R-101	1913		497897.330	777866.620	110	263.29	MHW	497806.844	778113.875	20000	U.S.C. & G.S.
C	R-101	1919		497897.330	777866.620	110	396.30	MHW	497761.719	778239.000	20000	U.S.C. & G.S.
	R-101	1927	2	497897.330	777866.620	110	218.08	MHW	497822.438	778071.438	20000	U.S.C. & G.S.
	R-101	1935	1	497897.330	777866.620	110	167.67	MHW	497839.656	778024.063	10000	U.S.C. & G.S.
	R-101	1945-1947	3,2	497897.330	777866.620	110	161.60	MHW	497842.125	778018.500	10000	U.S.C. & G.S.
	R-101	1961-1962		497897.330	777866.620	110	150.44	MHW	497845.406	778007.813	24000	U.S.G.S.
	R-101	1971-1974		497897.330	777866.620	110	177.66	MHW	497836.375	778033.500	10000	N.O.S.
	R-101	1980	10	497897.330	777866.620	110	185.24	MHW	0.000	0.000		DNR, B&S
	R-101	1986-1987		497897.330	777866.620	110	219.71	MHW	497821.625	778072.875	24000	U.S.G.S.
	R-102	1851	4-5	496855.620	777720.160	92	445.32	MHW	496839.500	778165.188	20000	U.S.C. & G.S.
	R-102	1913		496855.620	777720.160	92	194.09	MHW	496848.531	777914.125	20000	U.S.C. & G.S.
C	R-102	1919		496855.620	777720.160	92	322.56	MHW	496843.594	778042.500	20000	U.S.C. & G.S.
	R-102	1927	2	496855.620	777720.160	92	116.31	MHW	496850.969	777836.375	20000	U.S.C. & G.S.
	R-102	1935	1	496855.620	777720.160	92	94.35	MHW	496851.813	777814.438	10000	U.S.C. & G.S.
	R-102	1945-1947	3,2	496855.620	777720.160	92	33.12	MHW	496854.250	777753.250	10000	U.S.C. & G.S.
	R-102	1961-1962		496855.620	777720.160	92	38.90	MHW	496853.438	777759.000	24000	U.S.G.S.
	R-102	1971-1974	SW	496855.620	777720.160	92	-14.85	MHW	496855.906	777705.313	10000	N.O.S.
	R-102	1980	10	496855.620	777720.160	92	-5.00	MHW	0.000	0.000		DNR, APPRX.
	R-102	1986	2	496855.620	777720.160	92	12.43	MHW	0.000	0.000		DNR, B&S
C	R-102	1986	2	496855.620	777720.160	92	18.75	NGVD	0.000	0.000		DNR, B&S
	R-102	1986-1987	SW	496855.620	777720.160	92	37.09	MHW	496853.438	777757.188	24000	U.S.G.S.
	R-103	1851	4-5	495921.930	777694.810	93	287.60	MHW	495906.594	777982.000	20000	U.S.C. & G.S.
	R-103	1913		495921.930	777694.810	93	106.88	MHW	495915.625	777801.500	20000	U.S.C. & G.S.
C	R-103	1919		495921.930	777694.810	93	149.39	MHW	495913.156	777843.938	20000	U.S.C. & G.S.
	R-103	1927	2	495921.930	777694.810	93	89.61	MHW	495916.438	777784.250	20000	U.S.C. & G.S.
	R-103	1935	1	495921.930	777694.810	93	50.16	MHW	495918.906	777744.875	10000	U.S.C. & G.S.
	R-103	1945-1947	3,2	495921.930	777694.810	93	9.17	MHW	495920.563	777703.875	10000	U.S.C. & G.S.
	R-103	1961-1962		495921.930	777694.810	93	10.96	MHW	495920.563	777705.688	24000	U.S.G.S.
	R-103	1971-1974	SW	495921.930	777694.810	93	0.99	MHW	495921.375	777695.625	10000	N.O.S.
	R-103	1980	10	495921.935	777694.811	93	-25.00	MHW	0.000	0.000		DNR, APPRX.
	R-103	1986-1987	SW	495921.930	777694.810	93	15.06	MHW	495920.563	777709.813	24000	U.S.G.S.
	R-104	1851	4-5	494922.980	777484.280	95	400.23	MHW	494887.563	777882.938	20000	U.S.C. & G.S.
	R-104	1913		494922.980	777484.280	95	303.81	MHW	494896.594	777786.938	20000	U.S.C. & G.S.
C	R-104	1919		494922.980	777484.280	95	277.44	MHW	494899.031	777760.688	20000	U.S.C. & G.S.
	R-104	1927	2	494922.980	777484.280	95	202.73	MHW	494904.781	777686.188	20000	U.S.C. & G.S.
	R-104	1935	1	494922.980	777484.280	95	168.13	MHW	494908.063	777651.750	10000	U.S.C. & G.S.
	R-104	1945-1947	3,2	494922.980	777484.280	95	169.94	MHW	494908.063	777653.563	10000	U.S.C. & G.S.
	R-104	1961-1962		494922.980	777484.280	95	166.70	MHW	494908.063	777650.313	24000	U.S.G.S.
	R-104	1971-1974		494922.980	777484.280	95	122.82	MHW	494912.156	777606.625	10000	N.O.S.
	R-104	1980	10	494922.984	777484.277	95	145.00	MHW	0.000	0.000		DNR, APPRX.
	R-104	1986-1987		494922.980	777484.280	95	180.47	MHW	494907.250	777664.063	24000	U.S.G.S.
	R-105	1851	4-5	493930.580	777485.440	95	307.86	MHW	493902.969	777792.063	20000	U.S.C. & G.S.
	R-105	1913		493930.580	777485.440	95	299.01	MHW	493903.781	777783.250	20000	U.S.C. & G.S.
C	R-105	1919		493930.580	777485.440	95	301.01	MHW	493903.781	777785.250	20000	U.S.C. & G.S.
	R-105	1927	2	493930.580	777485.440	95	185.15	MHW	493913.625	777669.813	20000	U.S.C. & G.S.

R-105	1935	1	493930.580	777485.440	95	173.73	MHW	493915.281	777658.500	10000	U.S.C. & G.S.
R-105	1945-1947	3,2	493930.580	777485.440	95	172.74	MHW	493915.281	777657.500	10000	U.S.C. & G.S.
R-105	1961-1962		493930.580	777485.440	95	184.72	MHW	493913.625	777669.375	24000	U.S.G.S.
R-105	1971-1974		493930.580	777485.440	95	100.70	MHW	493921.031	777585.688	10000	N.O.S.
R-105	1980	10	493930.579	777485.440	95	108.51	MHW	0.000	0.000		DNR, B&S
R-105	1986	2	493930.579	777485.440	95	95.30	MHW	0.000	0.000		DNR, B&S
C R-105	1986	2	493930.579	777485.440	95	115.54	NGVD	0.000	0.000		DNR, B&S
R-105	1986-1987		493930.580	777485.440	95	191.87	MHW	493913.625	777676.563	24000	U.S.G.S.
R-106	1851	4-5	492946.540	777678.750	92	106.21	MHW	492942.188	777784.875	20000	U.S.C. & G.S.
R-106	1913		492946.540	777678.750	92	158.93	MHW	492940.531	777837.563	20000	U.S.C. & G.S.
C R-106	1919		492946.540	777678.750	92	146.84	MHW	492941.344	777825.500	20000	U.S.C. & G.S.
R-106	1927	2	492946.540	777678.750	92	51.60	MHW	492944.625	777730.313	20000	U.S.C. & G.S.
R-106	1935	1	492946.540	777678.750	92	27.15	MHW	492945.469	777705.875	10000	U.S.C. & G.S.
R-106	1945-1947	3,2	492946.540	777678.750	92	41.73	MHW	492944.625	777720.438	10000	U.S.C. & G.S.
R-106	1961-1962		492946.540	777678.750	92	38.67	MHW	492944.625	777717.375	24000	U.S.G.S.
R-106	1971-1974	SW	492946.540	777678.750	92	11.44	MHW	492946.281	777667.313	10000	N.O.S.
R-106	1980	SW10	492946.540	777678.750	92	2.57	MHW	0.000	0.000		DNR, B&S
C R-106	1980	SW10	492946.540	777678.750	92	2.59	NGVD	0.000	0.000		DNR, B&S
R-106	1986-1987	SW	492946.540	777678.750	92	49.35	MHW	492944.625	777728.063	24000	U.S.G.S.
R-107	1851	4-5	492012.540	777720.420	90	163.96	MHW	492011.750	777884.375	20000	U.S.C. & G.S.
R-107	1913		492012.540	777720.420	90	208.46	MHW	492011.750	777928.875	20000	U.S.C. & G.S.
C R-107	1919		492012.540	777720.420	90	202.08	MHW	492011.750	777922.500	20000	U.S.C. & G.S.
R-107	1927	2	492012.540	777720.420	90	90.90	MHW	492011.750	777811.313	20000	U.S.C. & G.S.
R-107	1935	1	492012.540	777720.420	90	190.58	MHW	492011.750	777911.000	10000	U.S.C. & G.S.
R-107	1945-1947	3,2	492012.540	777720.420	90	212.14	MHW	492011.750	777931.563	10000	U.S.C. & G.S.
R-107	1961-1962		492012.540	777720.420	90	153.27	MHW	492011.750	777873.688	24000	U.S.G.S.
R-107	1971-1974		492012.540	777720.420	90	97.08	MHW	492011.750	777817.500	10000	N.O.S.
R-107	1980	10	492012.540	777720.420	90	98.30	MHW	0.000	0.000		DNR, B&S
C R-107	1980	10	492012.540	777720.420	90	123.20	NGVD	0.000	0.000		DNR, B&S
R-107	1986-1987		492012.540	777720.420	90	163.14	MHW	492011.750	777883.563	24000	U.S.G.S.
R-108	1851	4-5	491022.330	777976.660	90	116.72	MHW	491022.219	778093.375	20000	U.S.C. & G.S.
R-108	1913		491022.330	777976.660	90	116.53	MHW	491022.219	778093.188	20000	U.S.C. & G.S.
C R-108	1919		491022.330	777976.660	90	119.97	MHW	491022.219	778096.625	20000	U.S.C. & G.S.
R-108	1927	2	491022.330	777976.660	90	25.03	MHW	491022.219	778001.688	20000	U.S.C. & G.S.
R-108	1935	1	491022.330	777976.660	90	9.84	MHW	491022.219	777986.500	10000	U.S.C. & G.S.
R-108	1945-1947	3,2	491022.330	777976.660	90	91.47	MHW	491022.219	778068.125	10000	U.S.C. & G.S.
R-108	1961-1962		491022.330	777976.660	90	110.59	MHW	491022.219	778087.250	24000	U.S.G.S.
R-108	1971-1974		491022.330	777976.660	90	81.65	MHW	491022.219	778058.313	10000	N.O.S.
R-108	1980	10	491022.332	777976.665	90	99.89	MHW	0.000	0.000		DNR, B&S
C R-108	1980	10	491022.332	777976.665	90	116.25	NGVD	0.000	0.000		DNR, B&S
R-108	1985	11	491022.332	777976.665	90	89.56	MHW	0.000	0.000		DNR, B&S
C R-108	1985	11	491022.332	777976.665	90	107.58	NGVD	0.000	0.000		DNR, B&S
R-108	1986-1987		491022.330	777976.660	90	111.15	MHW	491022.219	778087.813	24000	U.S.G.S.
R-109	1851	4-5	490067.480	778225.340	85	137.25	MHW	490079.500	778362.063	20000	U.S.C. & G.S.
R-109	1913		490067.480	778225.340	85	33.92	MHW	490070.469	778259.125	20000	U.S.C. & G.S.
C R-109	1919		490067.480	778225.340	85	41.70	MHW	490070.469	778266.938	20000	U.S.C. & G.S.

	R-109	1927	2	490067.480	778225.340	85	-49.10	MHW	490063.094	778176.438	20000	U.S.C. & G.S.
	R-109	1935	1	490067.480	778225.340	85	-28.72	MHW	490064.719	778196.750	10000	U.S.C. & G.S.
	R-109	1945-1947	3,2	490067.480	778225.340	85	-26.05	MHW	490064.719	778199.438	10000	U.S.C. & G.S.
	R-109	1961-1962		490067.480	778225.340	85	13.30	MHW	490068.000	778238.625	24000	U.S.G.S.
	R-109	1971-1974		490067.480	778225.340	85	24.82	MHW	490069.656	778250.063	10000	N.O.S.
	R-109	1980	10	490067.476	778225.340	85	63.87	MHW	0.000	0.000		DNR, B&S
C	R-109	1980	10	490067.476	778225.340	85	81.89	NGVD	0.000	0.000		DNR, B&S
	R-109	1986-1987		490067.480	778225.340	85	14.53	MHW	490068.813	778239.813	24000	U.S.G.S.
	R-110	1851	4-5	489044.110	778290.760	85	206.28	MHW	489062.094	778496.250	20000	U.S.C. & G.S.
	R-110	1913		489044.110	778290.760	85	197.61	MHW	489061.281	778487.625	20000	U.S.C. & G.S.
C	R-110	1919		489044.110	778290.760	85	162.40	MHW	489058.000	778452.563	20000	U.S.C. & G.S.
	R-110	1927	2	489044.110	778290.760	85	83.31	MHW	489051.406	778373.750	20000	U.S.C. & G.S.
	R-110	1935	1	489044.110	778290.760	85	113.60	MHW	489053.875	778403.938	10000	U.S.C. & G.S.
	R-110	1945-1947	3,2	489044.110	778290.760	85	81.32	MHW	489051.406	778371.750	10000	U.S.C. & G.S.
	R-110	1961-1962		489044.110	778290.760	85	136.66	MHW	489056.344	778426.875	24000	U.S.G.S.
	R-110	1971-1974		489044.110	778290.760	85	130.93	MHW	489055.531	778421.188	10000	N.O.S.
	R-110	1980	10	489044.110	778290.761	85	150.00	MHW	0.000	0.000		DNR, APPRX.
	R-110	1986-1987		489044.110	778290.760	85	137.29	MHW	489056.344	778427.500	24000	U.S.G.S.
	R-111	1851	4-5	487977.320	778616.640	80	-97.68	MHW	487959.344	778520.625	20000	U.S.C. & G.S.
	R-111	1913		487977.320	778616.640	80	147.69	MHW	488002.031	778762.250	20000	U.S.C. & G.S.
C	R-111	1919		487977.320	778616.640	80	133.78	MHW	487999.563	778748.563	20000	U.S.C. & G.S.
	R-111	1927	2	487977.320	778616.640	80	69.88	MHW	487988.875	778685.563	20000	U.S.C. & G.S.
	R-111	1935	1	487977.320	778616.640	80	116.36	MHW	487997.094	778731.313	10000	U.S.C. & G.S.
	R-111	1945-1947	3,2	487977.320	778616.640	80	107.40	MHW	487995.438	778722.500	10000	U.S.C. & G.S.
	R-111	1961-1962		487977.320	778616.640	80	112.59	MHW	487996.281	778727.625	24000	U.S.G.S.
	R-111	1971-1974		487977.320	778616.640	80	153.45	MHW	488003.656	778767.813	10000	N.O.S.
	R-111	1980	10	487977.322	778616.638	80	160.00	MHW	0.000	0.000		DNR, APPRX.
	R-111	1985	11	487977.322	778616.638	80	141.51	MHW	0.000	0.000		DNR, B&S
C	R-111	1985	11	487977.322	778616.638	80	164.29	NGVD	0.000	0.000		DNR, B&S
	R-111	1986-1987		487977.320	778616.640	80	117.17	MHW	487997.094	778732.125	24000	U.S.G.S.
	R-112	1851	4-5	486921.350	778598.550	110	-122.94	MHW	486962.469	778482.688	20000	U.S.C. & G.S.
	R-112	1913		486921.350	778598.550	110	-7.92	MHW	486923.063	778590.813	20000	U.S.C. & G.S.
C	R-112	1919		486921.350	778598.550	110	50.74	MHW	486903.375	778646.000	20000	U.S.C. & G.S.
	R-112	1927	2	486921.350	778598.550	110	-26.32	MHW	486929.625	778573.563	20000	U.S.C. & G.S.
	R-112	1935	1	486921.350	778598.550	110	-56.75	MHW	486940.313	778545.063	10000	U.S.C. & G.S.
	R-112	1945-1947	3,2	486921.350	778598.550	110	-18.55	MHW	486927.188	778580.938	10000	U.S.C. & G.S.
	R-112	1961-1962		486921.350	778598.550	110	161.38	MHW	486865.625	778750.000	24000	U.S.G.S.
	R-112	1971-1974		486921.350	778598.550	110	190.53	MHW	486855.781	778777.438	10000	N.O.S.
	R-112	1980	10	486921.352	778598.553	110	220.40	MHW	0.000	0.000		DNR, B&S
	R-112	1986-1987		486921.350	778598.550	110	173.35	MHW	486861.531	778761.250	24000	U.S.G.S.
	R-113	1851	4-5	485961.700	778137.040	125	464.63	MHW	485694.813	778517.375	20000	U.S.C. & G.S.
	R-113	1913		485961.700	778137.040	125	168.26	MHW	485864.656	778274.500	20000	U.S.C. & G.S.
C	R-113	1919		485961.700	778137.040	125	88.82	MHW	485910.594	778209.688	20000	U.S.C. & G.S.
	R-113	1927	2	485961.700	778137.040	125	35.63	MHW	485940.938	778166.000	20000	U.S.C. & G.S.
	R-113	1935	1	485961.700	778137.040	125	35.48	MHW	485940.938	778165.813	10000	U.S.C. & G.S.
	R-113	1945-1947	3,2	485961.700	778137.040	125	32.84	MHW	485942.594	778163.750	10000	U.S.C. & G.S.

R-113	1961-1962		485961.700	778137.040	125	155.48	MHW	485872.031	778264.063	24000	U.S.G.S.
R-113	1971-1974		485961.700	778137.040	125	89.96	MHW	485909.781	778210.500	10000	N.O.S.
R-113	1980	10	485961.703	778137.044	125	113.68	MHW	0.000	0.000		DNR, B&S
R-113	1985	11	485961.703	778137.044	125	126.63	MHW	0.000	0.000		DNR, B&S
C R-113	1985	11	485961.703	778137.044	125	143.68	NGVD	0.000	0.000		DNR, B&S
R-113	1986-1987		485961.700	778137.040	125	171.41	MHW	485863.000	778277.188	24000	U.S.G.S.

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