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RHB

**MONTH:** *June*

## DYNAMIC SEDIMENT PORE WATER PRESSURE AND HYDRODYNAMIC PROCESSES DRIVING FLUID FLOW AND PORE PRESSURE CHANGES IN SHALLOW WATER DEPOSITS

Richard H. Bennett

**CO PI:**

*Casey Church, Glen R. Anderson*

[illegible]



EXPERIMENT NO: 21

PI CODE: FRF, LONG

## FRF MEASUREMENTS PROGRAM

Gauge ID	Gauge Description	Sampling Rate	Record Length	Sampling Interval	FRF Coordinates(m)		Water Depth(m)	Height off Bottom	Gauge Depth(m)	Data		Additional Information
					Cross Shore	Longshore				Type	Format	
111	Senso-Metrics Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	914.45	825.72	7.90	0.40	7.50	Time Series	Digital	8 Meter Array LA01
121	Senso-Metrics Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	914.11	816.14	7.90	0.40	7.50	Time Series	Digital	8 Meter Array LA02
131	Senso-Metrics Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	914.89	800.47	7.90	0.34	7.57	Time Series	Digital	8 Meter Array LA03
141	Senso-Metrics Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	914.46	795.28	7.90	0.42	7.48	Time Series	Digital	8 Meter Array LA04
151	Senso-Metrics Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	913.99	760.91	7.90	0.49	7.41	Time Series	Digital	8 Meter Array LA05
161	Senso-Metrics Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	914.20	735.37	7.90	0.48	7.42	Time Series	Digital	8 Meter Array LA06
171	Senso-Metrics Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	914.30	930.73	7.90	0.24	7.66	Time Series	Digital	8 Meter Array LA07
181	Senso-Metrics Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	914.27	956.10	7.90	0.39	7.51	Time Series	Digital	8 Meter Array LA08
191	Senso-Metrics Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	915.23	990.16	7.90	0.40	7.50	Time Series	Digital	8 Meter Array LA09
101	Senso-Metrics Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	919.05	815.95	7.91	0.48	7.43	Time Series	Digital	8 Meter Array LA10
211	Senso-Metrics Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	834.66	800.37	7.44	0.46	6.98	Time Series	Digital	8 Meter Array LA31
221	Senso-Metrics Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	875.01	800.01	7.17	-0.48	7.65	Time Series	Digital	8 Meter Array LA32
231	Paroscientific Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	904.52	800.83	7.82	0.27	7.56	Time Series	Digital	8 Meter Array LA33
241	Senso-Metrics Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	935.01	800.37	8.00	0.34	7.67	Time Series	Digital	8 Meter Array LA34
251	Senso-Metrics Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	954.51	800.58	8.13	0.51	7.62	Time Series	Digital	8 Meter Array LA35
511	Senso-Metrics Pressure Gauge	2 Hz.	10240 sec	every 3 hrs.	914.76	950.00	7.90	1.20	6.70	Time Series	Digital	North Tripod
519	MMI Current Meter X	2 Hz.	10240 sec	every 3 hrs.	914.76	950.00	7.90	2.60	5.30	Time Series	Digital	North Tripod
529	MMI Current Meter Y	2 Hz.	10240 sec	every 3 hrs.	914.76	950.00	7.90	2.60	5.30	Time Series	Digital	North Tripod
601	Sound - Paroscientific Pressure	2 Hz.	10240 sec	every 3 hrs.	-927.30	634.00	2.34	0.21	2.13	Time Series	Digital	
604	Rain Gauge	2 Hz.	10241 sec	every 3 hrs.			N/A	N/A	N/A	Time Series	Digital	
616	Atmospheric Pressure	2 Hz.	10240 sec	every 3 hrs.	11.60	569.00	N/A	N/A	N/A	Time Series	Digital	
624	Air Temperature	2 Hz.	10240 sec	every 3 hrs.			N/A	N/A	N/A	Time Series	Digital	
625	Baylor Wave Gauge	2 Hz.	10240 sec	every 3 hrs.	568.00	516.64	8.36	1.43	6.93	Time Series	Digital	
630	6 Km Waverider	2 Hz.	10240 sec	every 3 hrs.	3934.96	-2400.81	17.00	17.00	0.00	Time Series	Digital	
932	End of Pier - Wind Speed	2 Hz.	10240 sec	every 3 hrs.	585.20	517.30	N/A	N/A	N/A	Time Series	Digital	
933	End of Pier - Wind Direction	2 Hz.	10240 sec	every 3 hrs.	585.20	517.30	N/A	N/A	N/A	Time Series	Digital	

EXPERIMENT NO: 29 PI CODE: DOZR MONTH: June

SWASH ZONE MORPHOLOGY: FIELD MANIPULATION AND SIMULATION

PI: Brad Werner CO PI: Steve Elgar

Gauge ID	Date		Gauge Description	Sampling Rate	Record Length	Sampling Interval	FRF Coordinates(m)		Water Depth(m)	Hght (m)		Data		Additional Information
	From	To					Cross Shore	Longshore		Above Bottom		Type	Format	
p01	23	4-Jul	Setra capacitance type pressure gauge	2Hz	?	Continuous	100	900	0	0		Time Series	Digital	
p02	23	4-Jul	Setra capacitance type pressure gauge	2Hz	?	Continuous	110	900	0.2	0		Time Series	Digital	
p03	23	4-Jul	Setra capacitance type pressure gauge	2Hz	?	Continuous	130	900	0.4	0		Time Series	Digital	
p04	23	4-Jul	Setra capacitance type pressure gauge	2Hz	?	Continuous	150	900	0.6	0		Time Series	Digital	
p05	23	4-Jul	Setra capacitance type pressure gauge	2Hz	?	Continuous	100	880	0	0		Time Series	Digital	
p06	23	4-Jul	Setra capacitance type pressure gauge	2Hz	?	Continuous	110	880	0.2	0		Time Series	Digital	
p07	23	4-Jul	Setra capacitance type pressure gauge	2Hz	?	Continuous	130	880	0.4	0		Time Series	Digital	
p08	23	4-Jul	Setra capacitance type pressure gauge	2Hz	?	Continuous	150	880	0.6	0		Time Series	Digital	
	23	4-Jul	FRF b/w video camera and SVHS VCR	30Hz	?	Continuous	Swash Zone	Tower to 920	N/A	N/A		Video	SVHS Tape	
	23	4-Jul	FRF b/w video camera and SVHS VCR		?	Continuous	Swash Zone	Tower to 920	N/A	N/A		TimeSeries	Digital	
	23	4-Jul	Sony Handycam	30Hz	?	Continuous	Dune Shoreward	Tower to 920	N/A	N/A		Video	Super 8	
	23	4-Jul	Sony Handycam		?	Continuous	Dune Shoreward	Tower to 920	N/A	N/A		TimeSeries	Digital	

SWASH ZONE MORPHOLOGY: FIELD MANIPULATION AND SIMULATION

PI:Brad Werner

CO PI:Steve Elgar

Gauge	Date		Gauge	Sampling	Record	Sampling	FRF Coordinates(m)		Water	Hght (m)	Data	
ID	From	To	Description	Rate	Length	Interval	Cross Shore	Longshore	Depth(m)	Above Bottom	Type	Format
p01	5	19	Setra capacitance type pressure gauge	2Hz	?	Continuous	100	900	0	0	Time Series	Digital
p02	5	19	Setra capacitance type pressure gauge	2Hz	?	Continuous	110	900	0.2	0	Time Series	Digital
p03	5	19	Setra capacitance type pressure gauge	2Hz	?	Continuous	130	900	0.4	0	Time Series	Digital
p04	5	19	Setra capacitance type pressure gauge	2Hz	?	Continuous	150	900	0.6	0	Time Series	Digital
p05	5	19	Setra capacitance type pressure gauge	2Hz	?	Continuous	100	880	0	0	Time Series	Digital
p06	5	19	Setra capacitance type pressure gauge	2Hz	?	Continuous	110	880	0.2	0	Time Series	Digital
p07	5	19	Setra capacitance type pressure gauge	2Hz	?	Continuous	130	880	0.4	0	Time Series	Digital
p08	5	19	Setra capacitance type pressure gauge	2Hz	?	Continuous	150	880	0.6	0	Time Series	Digital
	5	19	FRF b/w video camera and SVHS VCR	30Hz	?	Continuous	Swash Zone	Tower to 920	N/A	N/A	Video	SVHS Tape
	5	19	FRF b/w video camera and SVHS VCR		?	Continuous	Swash Zone	Tower to 920	N/A	N/A	TimeSeries	Digital
	5	19	Sony Handycam	30Hz	?	Continuous	Dune Shoreward	Tower to 920	N/A	N/A	Video	Super 8
	5	19	Sony Handycam		?	Continuous	Dune Shoreward	Tower to 920	N/A	N/A	TimeSeries	Digital