



Station Home Page  
**Richmond, CA**  
 Station ID: **9414863**

**Richmond, CA: [Data Inventory](#)**  
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### Meteorological Observations

Tide / Water Level  
 Data

Tide Predictions

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Current Data

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Metadata  
 Observations

Conductivity

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PORTS

Operational Forecast  
 System



### Meteorological Observations

Station	Date	Time	Wind Sp	Wind Dr	Wind Gt	Air Tmp	H2O Tmp	Baro	Pr
DC#	StnDtm	Local	1	1	1	1	1	1	1
Units:			Knots	Degrees	Knots	Fahrnht	Fahrnht	mbars	
9414863	20040110	00:00	0.972	29.000	6.026	54.50	51.26	1023.80	
9414863	20040110	00:06	5.248	43.000	6.998	54.14	51.08	1023.60	
9414863	20040110	00:12	6.415	38.000	8.359	54.14	51.26	1023.40	
9414863	20040110	00:18	6.220	25.000	8.164	54.14	51.08	1023.30	
9414863	20040110	00:24	3.110	22.000	7.387	54.50	51.08	1023.40	
9414863	20040110	00:30	1.555	2.000	7.192	54.68	51.08	1023.40	
9414863	20040110	00:36	0.972	20.000	3.110	54.50	51.08	1023.30	
9414863	20040110	00:42							
9414863	20040110	00:48	6.415	41.000	7.775	54.32	51.08	1023.30	
9414863	20040110	00:54	6.220	40.000	7.775	54.50	51.26	1023.40	
9414863	20040110	01:00	6.609	41.000	7.581	54.32	51.26	1023.30	
9414863	20040110	01:06	5.637	46.000	7.387	54.32	51.26	1023.10	
9414863	20040110	01:12	2.916	54.000	6.220	54.32	51.26	1023.00	
9414863	20040110	01:18	1.361	51.000	5.443	54.14	51.26	1023.00	
9414863	20040110	01:24	2.138	56.000	3.693	54.14	51.26	1023.10	
9414863	20040110	01:30	0.000	60.000	2.721	54.14	51.26	1023.10	
9414863	20040110	01:36	0.000	61.000	0.778	53.96	51.26	1023.10	
9414863	20040110	01:42	0.000	54.000	0.000	54.14	51.26	1023.20	
9414863	20040110	01:48	1.555	58.000	5.248	54.14	51.26	1023.30	
9414863	20040110	01:54	0.389	59.000	3.693	53.96	51.26	1023.20	
9414863	20040110	02:00	0.389	59.000	7.387	53.96	51.26	1023.40	
9414863	20040110	02:06	0.000	52.000	0.000	53.96	51.26	1023.30	
9414863	20040110	02:12	0.389	59.000	1.361	53.96	51.08	1023.10	
9414863	20040110	02:18	3.499	40.000	5.443	53.96	51.26	1023.00	
9414863	20040110	02:24	4.276	43.000	6.415	53.96	51.26	1023.20	
9414863	20040110	02:30	4.276	49.000	6.609	53.96	51.26	1023.20	
9414863	20040110	02:36	5.443	53.000	7.970	53.96	51.26	1023.10	
9414863	20040110	02:42	3.305	44.000	7.192	53.96	51.26	1023.00	
9414863	20040110	02:48	2.916	47.000	6.803	53.96	51.26	1023.00	
9414863	20040110	02:54				53.96	51.26	1022.90	
9414863	20040110	03:00	3.305	44.000	6.220	53.78	51.26	1022.90	
9414863	20040110	03:06	4.082	41.000	5.832	53.78	51.26	1022.90	
9414863	20040110	03:12	2.527	47.000	5.832	53.96	51.26	1022.70	
9414863	20040110	03:18	1.944	46.000	5.248	53.96	51.26	1022.60	
9414863	20040110	03:24	0.972	53.000	2.916	53.96	51.44		
9414863	20040110	03:30	1.166	57.000	2.916	53.96	51.44	1022.50	
9414863	20040110	03:36	1.749	34.000	3.499	53.96	51.62	1022.50	
9414863	20040110	03:42	0.194	17.000	2.527	53.96	51.62	1022.60	
9414863	20040110	03:48	2.138	16.000	4.860	53.96	51.62	1022.60	
9414863	20040110	03:54	0.194	353.000	2.916		51.62	1022.60	
9414863	20040110	04:00	0.000	301.000	2.916	54.14	51.80	1022.50	
9414863	20040110	04:06	0.000	342.000	0.000	54.14	51.80	1022.50	

9414863	20040110	04:12	0.000	347.000	0.000	54.14	51.80	1022.50
9414863	20040110	04:18	0.000	314.000	0.000	54.32	51.80	1022.50
9414863	20040110	04:24	0.000	327.000	0.972	54.14	51.80	1022.40
9414863	20040110	04:30	0.000	314.000	1.166	54.14	51.80	1022.40
9414863	20040110	04:36						
9414863	20040110	04:42						
9414863	20040110	04:48	4.665	22.000	6.220	53.96	51.44	1022.30
9414863	20040110	04:54	5.248	35.000	6.803	53.96	51.26	1022.30
9414863	20040110	05:00	4.471	45.000	6.415	54.14	51.44	1022.40
9414863	20040110	05:06	7.192	42.000	8.553	54.14	51.44	1022.30
9414863	20040110	05:12	5.637	44.000	7.970	54.14	51.44	1022.30
9414863	20040110	05:18	5.832	42.000	6.998	54.14	51.62	1022.40
9414863	20040110	05:24	1.166	56.000	7.192	53.96	51.44	1022.40
9414863	20040110	05:30						
9414863	20040110	05:36	0.000	74.000	0.583		51.62	1022.50
9414863	20040110	05:42	0.000	75.000	0.583	53.96	51.80	1022.60
9414863	20040110	05:48	1.555	68.000	5.637	53.96	51.80	1022.60
9414863	20040110	05:54	0.000	49.000	4.665	54.14	51.80	1022.50
9414863	20040110	06:00	0.000	35.000	0.000	54.14	51.80	1022.60
9414863	20040110	06:06	0.000	42.000	0.000	54.14	51.80	1022.50
9414863	20040110	06:12	0.000	45.000	0.000	54.14	51.98	1022.60
9414863	20040110	06:18	0.000	38.000	0.778	54.14	51.80	1022.60
9414863	20040110	06:24	0.000	59.000	0.972	54.14	51.80	1022.60
9414863	20040110	06:30	0.000	67.000	0.000	53.96	51.80	1022.50
9414863	20040110	06:36	0.000	55.000	0.000	54.14	51.80	1022.50
9414863	20040110	06:42	0.000	46.000	0.000	53.96	51.80	1022.40
9414863	20040110	06:48	0.000	38.000	0.000	53.96	51.62	1022.40
9414863	20040110	06:54	0.000	60.000	0.000	53.78	51.62	1022.40
9414863	20040110	07:00	0.000	60.000	0.972	53.78	51.62	1022.30
9414863	20040110	07:06	0.000	29.000	0.000	53.78	51.62	1022.30
9414863	20040110	07:12	0.000	42.000	1.166	53.96	51.62	1022.30
9414863	20040110	07:18						
9414863	20040110	07:24	0.000	34.000	0.972	53.96	51.98	1022.20
9414863	20040110	07:30	0.000	73.000	0.000	53.96	51.98	1022.10
9414863	20040110	07:36	0.000	99.000	0.000	54.14	51.98	1022.30
9414863	20040110	07:42	0.194	80.000	0.972	53.96	51.98	1022.40
9414863	20040110	07:48	1.361	76.000	5.054	53.96	51.98	1022.50
9414863	20040110	07:54	3.110	72.000	6.220	53.96	52.16	1022.50
9414863	20040110	08:00	2.333	73.000	6.415	53.96	51.98	1022.40
9414863	20040110	08:06	2.916	81.000	7.775	53.96	51.98	1022.40
9414863	20040110	08:12	4.471	86.000	10.302	53.96	51.98	1022.50
9414863	20040110	08:18	7.581	88.000	9.330	53.96	51.98	1022.60
9414863	20040110	08:24	7.581	87.000	11.080	54.14	51.98	1022.70
9414863	20040110	08:30	8.942	86.000	10.108	54.14	51.98	1022.80
9414863	20040110	08:36	1.749	83.000	9.719	53.96	51.98	1022.70
9414863	20040110	08:42	0.972	65.000	6.026	53.96	51.80	1022.60
9414863	20040110	08:48	4.471	59.000	6.220	53.96	51.62	1022.60
9414863	20040110	08:54	6.220	58.000	8.164	53.78	51.62	
9414863	20040110	09:00	0.389	78.000	8.164	53.96	51.62	1022.80
9414863	20040110	09:06	1.166	87.000	7.192	54.14	51.62	1022.90
9414863	20040110	09:12	2.333	81.000	8.164	54.32	51.80	1022.90
9414863	20040110	09:18	2.916	73.000	8.942	54.32	51.80	1023.00
9414863	20040110	09:24	6.998	63.000	9.719	55.04	51.80	1023.20
9414863	20040110	09:30	4.276	70.000	9.330	55.04	51.80	1023.20
9414863	20040110	09:36	7.970	66.000	10.497	55.04	51.80	1023.20
9414863	20040110	09:42	3.110	80.000	8.747	55.04	51.98	1023.30
9414863	20040110	09:48	4.665	73.000	10.691	55.22	51.98	1023.30
9414863	20040110	09:54	4.276	79.000	11.080	55.04	51.98	1023.20
9414863	20040110	10:00	3.499	75.000	8.747	55.22	51.98	1023.10
9414863	20040110	10:06	4.860	72.000	10.886	55.58	51.98	1023.10
9414863	20040110	10:12	5.443	76.000	11.469	55.76	51.98	1023.00
9414863	20040110	10:18	2.721	73.000	8.359		51.80	1023.00
9414863	20040110	10:24						
9414863	20040110	10:30	7.387	69.000	11.469	56.12	51.98	1023.00
9414863	20040110	10:36	8.359	63.000	11.274	55.76	51.98	1022.90
9414863	20040110	10:42	7.775	74.000	11.080	55.58	51.98	1023.00
9414863	20040110	10:48	6.415	67.000	10.691	55.94	51.80	1023.00
9414863	20040110	10:54	8.359	69.000	12.829	55.94	51.80	1022.80
9414863	20040110	11:00	7.192	72.000	13.024	56.12	51.98	1022.70
9414863	20040110	11:06						
9414863	20040110	11:12	4.082	79.000	11.274	55.94	51.80	1022.40
9414863	20040110	11:18	6.803	71.000	10.497	56.48	51.80	1022.30
9414863	20040110	11:24	6.026	66.000	11.080	56.66	51.98	1022.30
9414863	20040110	11:30	6.609	65.000	12.441	56.66	51.80	1022.20
9414863	20040110	11:36	6.998	58.000	10.302	56.66	51.80	1022.00

9414863	20040110	11:42	8.553	55.000	12.052	56.84	51.80	1021.80
9414863	20040110	11:48	6.803	52.000	10.691	56.48	51.80	1021.60
9414863	20040110	11:54	8.747	60.000	12.441	57.02	51.80	1021.60
9414863	20040110	12:00	8.553	56.000	13.218	56.84	51.80	1021.50
9414863	20040110	12:06	7.387	62.000	10.497	57.20	51.80	1021.30
9414863	20040110	12:12	5.054	61.000	9.914	57.20	51.80	1021.10
9414863	20040110	12:18	6.609	55.000	10.302	57.56	51.80	1021.00
9414863	20040110	12:24	6.609	52.000	9.136	57.56	51.80	1021.10
9414863	20040110	12:30	4.471	50.000	9.525	57.74	51.80	1021.00
9414863	20040110	12:36	7.775	59.000	9.330	58.10	51.80	1020.80
9414863	20040110	12:42	0.972	72.000	11.080	57.92	51.80	1020.50
9414863	20040110	12:48	1.555	68.000	7.581	58.46	51.80	1020.60
9414863	20040110	12:54	5.054	68.000	9.330	58.46	51.98	1020.60
9414863	20040110	13:00	6.803	66.000	11.080	58.46	51.98	1020.60
9414863	20040110	13:06	7.387	69.000	11.080	58.10	51.98	1020.50
9414863	20040110	13:12	6.609	66.000	10.497	58.10	51.98	1020.40
9414863	20040110	13:18	8.164	65.000	11.080	58.10	51.98	1020.30
9414863	20040110	13:24	5.637	58.000	9.719	58.28	51.98	1020.20
9414863	20040110	13:30	6.415	68.000	9.719	58.82	51.98	1020.20
9414863	20040110	13:36						
9414863	20040110	13:42	5.248	69.000	9.525		51.98	1020.00
9414863	20040110	13:48	3.110	60.000	7.581	58.64	51.98	1020.00
9414863	20040110	13:54	3.499	57.000	6.998	59.00	52.16	1019.90
9414863	20040110	14:00	1.555	86.000	6.803	59.18	52.16	1019.90
9414863	20040110	14:06	0.389	68.000	4.860	59.54	51.98	1019.90
9414863	20040110	14:12						
9414863	20040110	14:18	1.166	67.000	5.443	59.54	52.16	1019.80
9414863	20040110	14:24				59.54	51.98	1019.50
9414863	20040110	14:30	2.721	70.000	6.026	59.00	52.16	1019.40
9414863	20040110	14:36	0.389	86.000	6.220	59.18	52.16	1019.50
9414863	20040110	14:42	0.778	91.000	5.054	59.54	52.16	1019.60
9414863	20040110	14:48	0.000	45.000	1.166	59.54	52.16	1019.50
9414863	20040110	14:54	0.000	145.000	0.000	59.90	52.52	1019.60
9414863	20040110	15:00	0.000	192.000	0.000	59.18	52.16	1019.60
9414863	20040110	15:06	0.000	166.000	0.000	59.54	52.34	1019.50
9414863	20040110	15:12	0.583	244.000	2.527	59.72	52.16	1019.50
9414863	20040110	15:18	1.166	239.000	2.333	59.00	52.34	1019.60
9414863	20040110	15:24	0.000	248.000	1.944	58.64	52.16	1019.60
9414863	20040110	15:30	0.000	275.000	0.778		52.16	1019.70
9414863	20040110	15:36	0.000	240.000	0.778	58.46	52.34	1019.70
9414863	20040110	15:42						
9414863	20040110	15:48	0.194	277.000	4.471	57.92	52.34	1019.50
9414863	20040110	15:54	0.000	294.000	0.194	58.10	52.34	1019.50
9414863	20040110	16:00	0.000	17.000	0.972	57.74	52.34	1019.30
9414863	20040110	16:06	1.361	37.000	3.888	57.74	52.34	1019.30
9414863	20040110	16:12	6.220	31.000	7.387	58.28	52.34	1019.40
9414863	20040110	16:18	7.581	40.000	8.747	58.64	52.34	1019.40
9414863	20040110	16:24	7.581	39.000	9.914	58.64	52.34	1019.30
9414863	20040110	16:30	7.970	33.000	8.942	58.46	52.34	1019.40
9414863	20040110	16:36	6.998	42.000	8.942	58.46	52.34	1019.40
9414863	20040110	16:42	4.082	9.000	8.359	58.46	52.34	1019.40
9414863	20040110	16:48	2.333	24.000	5.832	58.28	52.34	1019.40
9414863	20040110	16:54	4.276	36.000	6.998	58.10	52.34	1019.50
9414863	20040110	17:00	4.665	44.000	7.775	57.92	52.16	1019.40
9414863	20040110	17:06	3.888	48.000	7.387	57.92	52.34	1019.50
9414863	20040110	17:12	0.778	22.000	7.581	57.92	52.34	1019.30
9414863	20040110	17:18	0.000	28.000	2.916	57.38	52.16	1019.50
9414863	20040110	17:24	5.054	306.000	5.832	57.02	52.16	1019.50
9414863	20040110	17:30	3.305	313.000	5.248	55.40	52.16	1019.50
9414863	20040110	17:36	3.693	306.000	4.665	55.22	52.16	1019.50
9414863	20040110	17:42						
9414863	20040110	17:48	0.000	321.000	0.000	55.76	52.16	1019.60
9414863	20040110	17:54	0.000	45.000	0.389	55.40		1019.60
9414863	20040110	18:00	0.583	42.000	2.916	55.76	52.16	1019.50
9414863	20040110	18:06	4.860	27.000	6.803	55.94	51.98	1019.50
9414863	20040110	18:12	0.194	322.000	5.443	56.12	51.98	1019.50
9414863	20040110	18:18	0.000	4.000	1.166	55.40	51.98	1019.50
9414863	20040110	18:24	0.000	309.000	1.361	55.04	51.98	1019.50
9414863	20040110	18:30	2.138	293.000	4.860	54.86	51.98	1019.50
9414863	20040110	18:36						
9414863	20040110	18:42	0.778	312.000	5.443	54.14	51.98	1019.50
9414863	20040110	18:48	0.000	70.000	2.916	54.14	51.98	1019.40
9414863	20040110	18:54						
9414863	20040110	19:00	2.527	292.000	4.665	54.14	51.98	1019.30
9414863	20040110	19:06	0.000	269.000	0.972	54.14	51.80	1019.30

9414863	20040110	19:12	0.194	288.000	0.972	54.14	51.80	1019.20
9414863	20040110	19:18	0.972	40.000	3.499	54.14	51.80	1019.10
9414863	20040110	19:24	4.665	39.000	6.609	54.68	51.80	1019.10
9414863	20040110	19:30	2.916	4.000	6.220	55.40	51.98	1019.00
9414863	20040110	19:36	1.555	5.000	3.499	55.40	51.80	1019.20
9414863	20040110	19:42	4.471	6.000	5.832	55.76	51.80	1019.10
9414863	20040110	19:48	2.916	2.000	6.026	55.94	51.80	1019.10
9414863	20040110	19:54	0.583	17.000	5.054	56.12	51.80	1019.10
9414863	20040110	20:00	1.555	15.000	3.110	55.76	51.80	1019.10
9414863	20040110	20:06	0.778	359.000	2.916	55.58	51.80	1019.10
9414863	20040110	20:12	0.000	359.000	2.916	55.58	51.80	1019.20
9414863	20040110	20:18	0.194	314.000	0.972	55.40	51.80	1019.20
9414863	20040110	20:24	0.000	259.000	0.389	55.04	51.98	1019.30
9414863	20040110	20:30	0.389	276.000	2.333	54.32	51.80	1019.40
9414863	20040110	20:36	4.082	263.000	5.832	53.60	51.80	1019.40
9414863	20040110	20:42	0.972	280.000	6.220	53.24	51.98	1019.30
9414863	20040110	20:48	5.637	283.000	7.192	53.42	51.98	1019.30
9414863	20040110	20:54	6.609	298.000	7.387	53.60	51.98	1019.50
9414863	20040110	21:00	6.220	307.000	7.775	53.42	51.98	1019.30
9414863	20040110	21:06	3.305	311.000	6.998	53.06	51.80	1019.30
9414863	20040110	21:12	0.583	322.000	5.054	53.24	51.98	1019.20
9414863	20040110	21:18	0.000	1.000	0.000	53.24	51.98	1019.20
9414863	20040110	21:24	2.333	43.000	4.082	53.42	51.80	1019.30
9414863	20040110	21:30	0.972	36.000	4.082	54.68	51.80	1019.30
9414863	20040110	21:36	2.527	34.000	5.248	55.04	51.80	1019.20
9414863	20040110	21:42						
9414863	20040110	21:48	0.000	69.000	0.000	55.40	51.80	1019.20
9414863	20040110	21:54	0.000	302.000	0.000	55.04	51.80	1019.20
9414863	20040110	22:00	0.000	294.000	0.389	54.68	51.80	1019.20
9414863	20040110	22:06	0.000	13.000	0.000	54.68	51.80	1019.10
9414863	20040110	22:12	0.000	5.000	0.000	54.68	51.80	1019.10
9414863	20040110	22:18	0.000	321.000	0.000	54.86	51.80	1019.10
9414863	20040110	22:24						
9414863	20040110	22:30	0.194	316.000	1.166	54.32	51.80	1019.20
9414863	20040110	22:36	1.361	326.000	4.860	54.50	51.80	1019.10
9414863	20040110	22:42	1.166	331.000	5.443	54.14	51.80	1019.00
9414863	20040110	22:48	0.583	312.000	2.527	53.96	51.80	1019.10
9414863	20040110	22:54	0.000	335.000	0.972	53.78	51.80	
9414863	20040110	23:00	0.000	52.000	0.000	53.96	51.80	1019.10
9414863	20040110	23:06	0.000	34.000	2.916	54.14	51.80	1019.00
9414863	20040110	23:12	0.000	85.000	0.000	54.86	51.62	1019.00
9414863	20040110	23:18	0.000	80.000	0.000	55.04	51.62	1019.10
9414863	20040110	23:24	0.000	69.000	0.000	55.04	51.62	1019.30
9414863	20040110	23:30	0.000	271.000	0.000	55.04	51.62	1019.20
9414863	20040110	23:36	0.000	276.000	0.000	54.68	51.62	1019.20
9414863	20040110	23:42	0.194	320.000	0.972	54.14	51.62	1019.00
9414863	20040110	23:48	0.000	316.000	2.527	53.96	51.62	1018.90
9414863	20040110	23:54	0.000	318.000	0.000	53.24	51.62	1019.00

**Begin Date:** Jan 10 2004 
**Interval:** Six minute 
**Data Units:**  Fahrenheit - knots  Celsius - m/sec

**Time Zone:**  Local  GMT  LST

**End Date:** Jan 10 2004 