15295700 TERROR RIVER AT MOUTH NEAR KODIAK

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968, 1982 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: December 1981 to current year.

INSTRUMENTATION.--Water-temperature recorder since December 10, 1981. Electronic water temperature recorder set for 1-hour recording interval.

REMARKS.--Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the average for the river by cross section on June 19, and July 29. A gravel bar running parallel to the channel formed in the 2003 water year and remained in place for the entire year. This bar caused two channels to form at the sensor location. The June 19 cross section found 25 percent of the discharge on the left side of this bar opposite of the sensor. This channel has much lower velocities and much more backwater which resulted in an increase of 1.0°C water temperature in this channel. The July 29 cross section measurement found 7 percent of the discharge on the left side of this bar. The water temperature was found to be 2.0°C higher than the right side of this bar which carries a majority of the flow. No variation was found between median stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 15.0°C, July 15, 2003; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 13.5°C, July 12, 2004; minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Stream width, feet (00004)	Sample location, cross section ft from rt bank (72103)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JUN							
19...	1215	86.0	2.0	2.36	457	6.1	12.8
19...	1216	86.0	16.0	2.36	457	6.1	12.8
19...	1217	86.0	26.0	2.36	457	6.1	12.8
19...	1218	86.0	36.0	2.36	457	6.1	12.8
19...	1219	86.0	46.0	2.36	457	6.2	12.8
19...	1220	86.0	56.0	2.36	457	6.6	12.8
19...	1221	86.0	66.0	2.36	457	7.0	12.8
19...	1222	86.0	76.0	2.36	457	7.2	12.8
19...	1223	86.0	84.0	2.36	457	7.2	12.8

Date	Time	Stream width, feet (00004)	Sample location, cross section ft from rt bank (72103)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JUL							
29...	1100	68.8	1.3	1.72	187	7.5	14.6
29...	1102	68.8	14.3	1.72	187	7.5	14.6
29...	1104	68.8	24.3	1.72	187	7.5	14.6
29...	1106	68.8	34.3	1.72	187	7.5	14.6
29...	1108	68.8	44.3	1.72	187	7.5	14.6
29...	1110	68.8	54.3	1.72	187	7.5	14.6
29...	1112	68.8	64.3	1.72	187	9.5	14.6

15295700 TERROR RIVER AT MOUTH NEAR KODIAK—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.0	7.0	7.5	6.5	6.0	6.5	2.0	1.0	1.5	0.0	0.0	0.0
2	7.5	5.5	7.0	7.0	6.5	6.5	1.5	0.5	1.0	0.5	0.0	0.0
3	7.0	5.0	6.0	6.5	6.0	6.0	2.5	0.5	1.5	0.5	0.0	0.5
4	6.5	6.0	6.0	6.5	6.0	6.0	2.0	1.5	2.0	0.5	0.0	0.0
5	7.5	6.5	7.0	6.5	6.0	6.0	1.5	1.0	1.5	1.5	0.5	1.0
6	8.0	6.5	7.5	6.0	5.5	6.0	1.0	0.5	0.5	1.0	0.5	0.5
7	8.0	7.5	7.5	5.5	5.0	5.0	1.5	0.5	1.0	0.5	0.0	0.5
8	7.5	6.5	7.0	6.0	5.0	5.5	2.5	1.0	2.0	1.0	0.5	0.5
9	6.5	5.0	6.0	5.0	4.5	5.0	2.5	1.5	2.0	1.0	0.5	1.0
10	5.5	4.5	5.0	5.0	4.5	4.5	2.0	1.0	1.5	1.0	0.5	0.5
11	5.0	4.0	4.5	5.0	4.0	4.5	2.0	1.5	2.0	1.0	0.0	0.5
12	5.0	3.5	4.0	4.0	3.0	3.5	2.0	1.5	1.5	1.0	0.0	0.0
13	5.0	3.5	4.5	3.0	2.5	2.5	2.0	0.5	1.5	0.0	0.0	0.0
14	7.0	4.5	6.0	3.0	2.5	3.0	1.5	0.5	1.5	0.0	0.0	0.0
15	7.0	6.5	6.5	3.0	2.5	2.5	2.5	1.5	2.0	0.0	0.0	0.0
16	6.5	5.0	6.0	2.5	2.0	2.5	2.5	1.5	2.0	0.0	0.0	0.0
17	6.0	5.0	5.5	2.5	1.0	1.5	1.5	0.0	1.0	0.0	0.0	0.0
18	5.5	4.5	5.5	3.5	1.0	2.5	1.5	0.0	1.0	0.0	0.0	0.0
19	4.5	4.0	4.5	4.0	3.5	3.5	1.5	1.0	1.5	1.0	0.0	0.0
20	5.0	3.5	4.0	4.0	3.5	3.5	1.0	0.5	0.5	2.0	1.0	1.5
21	5.5	4.5	5.0	4.0	3.5	4.0	1.5	0.5	1.0	2.5	1.5	2.0
22	5.5	5.0	5.5	3.5	2.0	2.5	1.0	0.5	1.0	2.0	1.0	1.0
23	5.5	5.0	5.0	4.0	2.0	3.5	0.5	0.0	0.0	1.5	1.0	1.0
24	6.0	4.5	5.0	4.0	3.0	3.5	0.0	0.0	0.0	1.5	0.5	1.0
25	6.0	5.0	5.5	3.0	1.5	2.0	0.0	0.0	0.0	2.5	1.5	2.0
26	5.5	4.0	5.0	1.5	1.0	1.0	0.5	0.0	0.0	2.0	1.0	2.0
27	4.5	3.5	4.0	3.0	1.0	2.0	2.0	0.5	1.0	2.0	0.0	1.0
28	4.5	3.5	4.0	3.0	2.0	2.5	2.5	1.5	2.0	2.5	2.0	2.0
29	5.5	3.5	4.5	2.5	2.0	2.5	1.5	0.5	1.0	2.0	1.0	1.5
30	5.5	5.0	5.5	2.5	2.0	2.0	1.0	0.5	1.0	2.0	0.5	1.5
31	6.5	5.5	6.0	---	---	---	0.5	0.0	0.0	2.0	1.5	2.0
MONTH	9.0	3.5	5.6	7.0	1.0	3.7	2.5	0.0	1.2	2.5	0.0	0.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.5	1.5	2.0	3.0	2.0	2.5	0.5	0.0	0.0	4.0	2.0	3.0
2	2.5	1.0	1.5	3.0	2.0	2.5	0.5	0.0	0.0	4.0	1.5	3.0
3	3.0	2.0	2.5	2.5	1.5	2.0	3.0	0.5	1.5	5.0	2.5	3.5
4	3.0	2.0	2.5	2.0	0.5	1.5	3.5	1.0	2.0	7.5	2.0	4.0
5	2.5	0.0	2.0	2.0	1.0	1.5	2.0	1.5	2.0	6.0	2.0	3.5
6	1.0	0.0	0.5	1.5	0.5	1.0	3.5	1.5	2.0	6.5	2.5	4.0
7	2.5	1.0	1.5	2.0	0.5	1.0	4.0	1.0	2.0	6.5	2.0	3.5
8	2.5	2.0	2.0	0.5	0.0	0.0	2.0	1.0	1.5	6.0	2.0	3.5
9	3.0	2.0	2.5	1.0	0.0	0.5	2.5	1.0	1.5	5.0	2.0	3.5
10	2.0	1.5	1.5	3.0	0.5	1.5	4.0	1.0	2.0	7.0	2.5	4.5
11	2.5	1.5	2.0	2.5	1.0	1.5	3.5	1.0	2.0	6.5	2.5	4.0
12	2.5	2.0	2.5	3.0	1.0	2.0	4.0	0.5	2.0	6.5	2.5	4.0
13	2.5	1.5	1.5	3.0	1.0	1.5	4.5	1.5	3.0	6.0	2.5	4.0
14	2.0	1.5	2.0	2.5	1.5	2.0	5.0	1.0	3.0	6.0	3.0	4.0
15	2.5	2.0	2.0	3.0	1.0	1.5	4.0	1.5	3.0	5.5	3.0	4.0
16	2.5	1.5	2.0	3.5	1.0	2.0	5.0	2.0	3.5	5.5	2.5	3.5
17	1.5	0.5	1.0	3.0	1.5	2.0	5.0	1.5	3.0	4.5	2.0	3.5
18	1.5	0.5	1.0	2.0	0.5	1.0	4.5	2.0	3.0	6.0	2.5	4.0
19	2.5	1.5	2.0	1.0	0.5	0.5	6.0	2.0	3.5	6.5	3.0	4.0
20	2.0	1.0	1.5	1.5	0.5	0.5	5.5	1.5	3.5	7.0	2.5	4.5
21	3.0	1.5	2.0	2.5	1.0	1.5	4.0	2.0	3.0	7.0	2.5	4.5
22	2.5	1.5	2.0	4.0	1.5	2.0	4.5	2.0	3.0	6.0	2.5	4.0
23	2.5	1.5	2.0	4.0	1.0	2.0	5.5	1.5	3.5	5.0	2.5	3.5
24	2.5	1.5	2.0	3.5	0.5	2.0	5.0	2.5	3.5	3.5	2.5	3.0
25	2.5	1.0	1.5	3.5	1.0	2.0	5.0	2.5	3.5	4.0	2.5	3.0
26	2.0	1.0	1.5	3.5	1.0	2.0	4.5	1.5	3.0	5.5	3.0	4.0
27	3.0	1.5	2.0	2.0	0.5	1.0	5.5	2.5	3.5	6.5	3.0	4.5
28	3.0	1.5	2.0	2.5	0.0	1.0	4.5	2.0	3.0	4.5	3.0	4.0
29	3.5	2.0	2.5	1.0	0.0	0.5	4.0	2.5	3.0	4.5	3.0	3.5
30	---	---	---	0.5	0.0	0.0	5.5	2.0	3.5	4.5	3.0	3.5
31	---	---	---	0.5	0.0	0.0	---	---	---	5.5	3.0	4.0
MONTH	3.5	0.0	1.8	4.0	0.0	1.4	6.0	0.0	2.5	7.5	1.5	3.8

15295700 TERROR RIVER AT MOUTH NEAR KODIAK—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	5.0	3.0	4.0	9.5	5.5	7.0	11.0	7.0	9.0	8.0	6.5	7.5
2	4.5	3.0	4.0	8.0	6.5	7.0	11.5	7.5	9.0	8.5	7.0	7.5
3	4.5	3.5	4.0	7.5	6.5	7.0	10.0	7.5	8.5	9.0	6.5	8.0
4	5.5	3.5	4.0	8.5	6.5	7.0	9.0	8.0	8.5	8.0	5.5	6.5
5	5.0	3.0	4.0	9.5	6.5	8.0	8.5	8.0	8.0	8.0	5.0	6.5
6	8.5	3.5	5.5	11.5	7.0	9.0	10.0	8.0	8.5	8.5	5.5	6.5
7	5.5	3.5	4.5	12.0	7.0	9.5	10.5	7.0	8.5	8.0	5.5	6.5
8	6.0	3.0	4.5	12.0	7.5	9.5	11.0	7.5	9.0	7.5	5.5	6.5
9	6.0	3.5	4.5	12.5	7.5	9.5	9.5	8.0	8.5	7.5	6.0	6.5
10	5.5	3.5	4.5	13.0	7.5	10.0	11.5	8.0	9.5	7.5	6.5	7.0
11	4.5	3.5	4.0	13.0	8.0	10.5	10.5	7.5	9.0	7.5	6.0	6.5
12	5.0	4.0	4.5	13.5	8.5	10.5	10.0	7.0	8.5	8.0	5.5	6.5
13	6.0	4.0	4.5	11.5	8.0	9.5	10.0	6.5	8.0	7.5	5.5	6.5
14	6.0	3.5	4.5	9.0	8.0	8.5	10.0	7.0	8.0	7.5	5.0	6.0
15	5.5	4.0	4.5	11.0	8.0	9.0	10.0	6.5	8.0	7.5	6.0	6.5
16	7.0	4.0	5.0	10.5	8.5	9.5	10.5	7.0	8.5	7.0	5.0	6.0
17	7.0	4.5	5.5	10.5	8.0	9.0	10.5	7.0	8.5	7.0	5.0	5.5
18	6.0	4.0	5.0	9.5	8.0	9.0	9.0	7.5	8.0	7.0	5.0	6.0
19	8.5	4.0	5.5	9.0	8.0	8.5	10.0	7.5	8.5	8.0	6.0	7.0
20	9.0	4.0	6.0	9.5	8.0	8.5	8.5	7.5	8.0	7.5	6.0	7.0
21	9.5	4.5	6.5	9.0	7.5	8.0	9.0	7.5	8.0	7.0	6.0	6.5
22	8.5	5.0	6.5	9.0	8.0	8.5	8.0	7.5	7.5	7.5	6.0	6.5
23	9.0	5.0	6.5	9.5	8.0	8.5	8.0	7.5	8.0	7.0	5.5	6.0
24	9.0	5.5	7.0	10.0	8.0	9.0	9.5	7.5	8.5	6.5	4.5	5.5
25	9.5	5.5	7.0	9.5	8.0	8.5	10.0	7.5	8.5	6.5	6.0	6.5
26	10.5	6.0	8.0	10.5	8.5	9.0	8.0	7.5	7.5	6.5	5.5	6.0
27	7.5	6.0	7.0	11.0	8.0	9.0	8.5	7.0	7.5	7.0	5.0	5.5
28	9.0	5.5	7.0	9.0	8.0	8.5	7.0	6.5	6.5	7.0	6.0	6.5
29	8.5	6.0	7.0	9.0	7.5	8.0	8.5	5.5	7.0	7.5	6.5	7.0
30	8.0	6.0	7.0	9.5	7.5	8.5	8.0	6.0	7.0	7.5	7.0	7.0
31	---	---	---	10.0	7.5	8.5	8.5	6.0	7.0	---	---	---
MONTH	10.5	3.0	5.4	13.5	5.5	8.7	11.5	5.5	8.2	9.0	4.5	6.5