Coastal Protection and Restoration Authority
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2017 Coastal Master Plan

Attachment C3-23.6: Model Performance - Temperature

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Report: Version I

Date: September 2016

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Coastal Protection and Restoration Authority

This document was prepared in support of the 2017 Coastal Master Plan being prepared by the Coastal Protection and Restoration Authority (CPRA). CPRA was established by the Louisiana Legislature in response to Hurricanes Katrina and Rita through Act 8 of the First Extraordinary Session of 2005. Act 8 of the First Extraordinary Session of 2005 expanded the membership, duties, and responsibilities of CPRA and charged the new authority to develop and implement a comprehensive coastal protection plan, consisting of a master plan (revised every five years) and annual plans. CPRA's mandate is to develop, implement, and enforce a comprehensive coastal protection and restoration master plan.

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Table1: Summary of Modeled and Observed Mean Daily Temperature (deg C) for Calibration Period, 2010-2013.

ICM Compartment	Station	# Observations	Predicted					Observed				
			Mean	Median	StDev	Min	Max	Mean	Median	StDev	Min	Max
23	LDEQ3594	11	19.0	21.2	8.5	8.0	31.0	21.7	22.3	5.5	14.0	29.1
26	LDEQ0032	11	20.4	20.8	6.6	9.2	29.0	21.9	23.0	5.8	13.1	29.6
28	LDEQ1089	8	21.0	20.6	5.0	13.6	26.7	21.6	24.6	7.1	10.8	27.6
30	LDEQ0105	46	19.4	20.7	7.9	5.1	30.1	20.4	20.5	7.5	7.2	32.5
31	LDEQ1073	12	21.0	21.4	5.5	12.0	27.8	20.3	21.2	8.5	6.9	31.1
35	LDEQ0035	5	21.1	22.9	7.1	12.8	27.9	20.2	18.1	9.2	7.8	31.2
36	LDEQ1047	12	21.3	22.4	8.5	5.5	31.2	21.0	22.7	8.9	7.1	31.3
37	LDEQ1043	12	21.0	21.4	6.4	10.8	29.3	23.1	24.9	7.5	11.5	31.6
39	LDEQ1087	7	20.7	21.5	5.3	12.3	27.5	20.6	23.4	8.9	8.2	30.7
42	LDEQ1086	15	20.8	20.9	5.7	10.5	28.9	21.6	23.9	7.7	9.1	31.4
45	LDEQ0138	46	21.0	20.8	6.5	9.0	29.9	20.6	20.7	7.5	7.8	31.2
46	LDEQ1062	12	21.1	21.4	6.1	12.9	28.4	22.7	23.3	6.1	14.7	30.4
48	LDEQ0106	47	21.5	21.5	7.0	8.4	31.2	21.3	22.0	6.9	8.7	32.3
49	LDEQ1084	3	21.9	21.6	4.5	17.6	26.5	18.4	17.0	7.2	12.0	26.2
52	LDEQ1082	8	20.8	20.1	5.1	13.6	26.5	21.5	23.0	6.7	11.1	28.7
53	LDEQ1063	12	21.1	21.4	6.2	12.8	28.7	22.7	23.6	6.2	14.2	29.9
55	LDEQ1083	7	20.9	21.0	5.4	12.6	27.9	21.2	22.8	7.6	10.9	29.0
59	LDEQ0638	13	21.2	21.1	6.7	11.5	30.4	20.2	20.6	8.7	7.1	31.3
65	LDEQ1095	12	20.0	20.7	5.7	11.3	26.9	21.0	19.6	6.4	13.1	29.7
66	LDEQ0307	12	21.1	21.5	6.5	12.2	28.9	22.5	23.7	6.1	14.8	29.7
66	LDEQ0307	12	21.1	21.5	6.5	12.2	28.9	22.5	23.7	6.1	14.8	29.7
66	LDEQ0307	12	21.1	21.5	6.5	12.2	28.9	22.5	23.7	6.1	14.8	29.7
81	LDEQ1081	15	21.4	21.9	7.8	7.5	32.5	20.7	22.8	8.3	6.9	31.5
82	LDEQ0006	8	20.7	20.5	7.2	9.5	29.9	20.2	23.1	8.5	6.7	30.3
97	LDEQ0298	11	19.6	21.3	9.4	6.8	31.0	18.5	21.7	7.9	6.6	27.1

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ICM Compartment	Station	# Observations	Predicted					Observed				
			Mean	Median	StDev	Min	Max	Mean	Median	StDev	Min	Max
107	LDEQ0007	7	21.3	19.5	7.0	10.0	31.2	20.7	22.5	7.9	10.2	28.9
129	LDEQ1093	12	19.5	20.3	6.2	9.8	26.7	19.3	19.1	8.1	8.3	30.1
130	LDEQ0905	11	22.7	22.1	6.3	15.2	31.5	21.8	23.2	6.3	12.7	29.6
136	LDEQ0036	12	22.1	22.7	7.2	10.6	31.0	21.1	20.9	7.8	9.8	31.4
150	LDEQ1102	16	21.3	21.6	7.9	8.3	31.1	20.5	22.6	8.0	6.7	30.5
155	LDEQ1080	8	21.1	21.9	8.7	7.9	32.1	20.7	23.1	8.8	6.8	32.0
156	LDEQ1092	12	19.9	20.7	4.3	13.4	25.1	19.8	19.6	7.5	9.2	29.5
199	LDEQ0904	11	22.7	22.1	6.3	15.1	31.5	22.3	24.0	5.6	12.6	29.7
209	LDEQ0304	12	21.5	21.5	8.2	10.6	31.2	21.3	25.2	9.5	4.4	33.0
213	LDEQ3958	12	21.5	21.5	8.3	10.4	31.3	22.4	26.2	10.6	3.2	36.6
215	LDEQ0228	12	20.3	21.6	9.4	6.7	31.2	20.9	22.9	7.9	9.1	32.7
226	LDEQ0909	12	21.8	21.3	5.0	15.1	28.7	22.1	23.3	6.2	13.3	29.5
248	LDEQ0901	4	28.9	29.6	2.8	25.1	31.3	28.1	28.0	1.4	26.5	29.8
251	LDEQ0636	4	28.9	29.6	2.5	25.5	31.0	28.7	28.1	1.3	27.9	30.6
252	LDEQ4345	12	21.3	21.5	4.3	15.2	27.1	22.0	23.5	6.3	13.6	30.4
253	LDEQ0899	11	22.7	22.6	6.3	14.7	31.5	22.7	24.6	6.2	12.4	30.3
257	LDEQ0908	12	21.7	21.2	4.7	15.1	28.0	22.1	23.1	6.5	12.9	30.6
258	LDEQ0243	16	20.2	21.0	8.8	3.8	31.5	20.9	22.7	7.7	7.1	30.4
268	LDEQ0292	11	22.3	22.5	6.8	14.0	31.6	22.9	24.7	6.3	12.9	30.2
277	LDEQ0898	11	22.5	22.1	6.1	15.1	31.2	22.8	24.6	6.1	13.3	30.3
278	LDEQ0907	12	22.1	21.6	5.5	14.9	29.5	22.1	23.3	6.6	12.6	30.6
287	LDEQ0903	11	22.5	22.0	6.3	15.0	31.4	22.6	24.5	6.5	11.7	30.5
295	LDEQ0897	11	22.5	22.2	5.9	15.2	30.9	22.5	24.3	5.9	13.2	29.6
297	LDEQ0918	12	23.0	23.1	6.8	14.7	31.6	21.7	23.0	6.7	10.7	29.4
298	LDEQ0084	12	21.4	22.3	7.6	11.1	31.5	20.1	22.8	7.6	5.3	27.8
307	LDEQ0926	12	21.6	21.3	4.2	15.8	26.8	22.9	23.7	6.1	12.8	29.6

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ICM Compartment	Station	# Observations	Predicted					Observed				
			Mean	Median	StDev	Min	Max	Mean	Median	StDev	Min	Max
309	LDEQ0336	14	25.3	25.2	6.4	14.3	32.9	23.5	24.1	5.2	15.7	29.3
309	LDEQ0336	14	25.3	25.2	6.4	14.3	32.9	23.5	24.1	5.2	15.7	29.3
309	LDEQ0336	14	25.3	25.2	6.4	14.3	32.9	23.5	24.1	5.2	15.7	29.3
312	LDEQ0945	12	21.2	22.4	8.6	8.0	31.5	22.1	23.9	8.7	5.6	31.6
314	LDEQ0922	12	21.7	21.6	5.7	14.5	29.2	22.5	21.9	6.4	11.1	31.1
316	LDEQ2843	12	21.2	22.6	8.6	8.9	31.3	22.4	24.4	8.8	5.3	32.5
324	LDEQ0341	12	23.1	23.6	7.2	10.6	32.1	21.4	22.6	7.3	8.8	31.6
325	LDEQ2844	12	21.4	22.7	8.6	7.2	31.8	22.1	23.7	8.6	6.0	31.7
331	LDEQ0925	12	22.5	21.9	5.6	15.5	29.7	22.9	23.6	6.1	12.8	29.6
342	LDEQ0293	48	22.0	21.0	7.0	6.7	32.6	21.4	22.7	7.0	6.1	31.8
343	LDEQ0080	12	22.7	24.6	7.5	9.9	31.2	22.0	23.9	7.2	11.1	30.9
348	LDEQ0924	12	19.9	20.1	2.9	15.6	23.3	22.5	24.2	7.1	10.5	30.1
349	LDEQ0340	11	21.7	22.1	7.0	12.3	31.1	22.0	25.5	6.8	11.6	30.1
361	LDEQ0946	12	21.4	21.7	6.9	11.3	30.5	22.1	24.0	8.1	8.4	31.7
363	LDEQ1198	12	22.8	21.0	6.9	13.9	31.9	20.9	19.6	6.7	13.1	31.0
366	LDEQ0923	12	21.7	22.6	7.3	8.3	31.1	23.2	24.3	6.5	13.2	30.3
368	LDEQ0349	15	22.0	22.5	7.6	7.9	32.3	21.4	23.0	7.2	9.3	31.5
372	LDEQ0347	15	21.9	22.6	7.6	7.6	32.4	21.5	23.3	7.0	9.6	31.6
372	LDEQ0347	15	21.9	22.6	7.6	7.6	32.4	21.5	23.3	7.0	9.6	31.6
377	LDEQ0953	12	21.2	21.3	3.4	16.2	25.7	22.9	23.8	6.1	13.1	29.6
381	LDEQ3001	11	22.5	23.1	5.6	14.7	30.0	22.8	25.4	6.7	11.5	31.2
392	LDEQ1196	12	18.0	16.5	8.3	8.0	29.6	18.4	16.3	8.0	8.9	29.7
393	LDEQ0930	0	-	-	-	-	-	-	-	-	-	-
394	LDEQ0110	11	21.5	21.2	7.0	11.9	31.3	23.4	25.2	5.7	15.3	30.3
399	LDEQ0346	12	21.7	23.5	8.5	7.4	32.4	22.6	24.5	8.0	5.9	31.6
413	LDEQ0144	12	22.6	22.0	6.9	14.9	31.9	21.7	20.3	6.7	10.4	31.7

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ICM Compartment	Station	# Observations	Predicted					Observed				
			Mean	Median	StDev	Min	Max	Mean	Median	StDev	Min	Max
419	LDEQ0959	4	19.3	18.6	3.3	16.3	23.6	21.6	24.1	8.7	9.1	29.2
421	LDEQ0940	12	21.3	20.7	7.4	12.8	31.2	21.3	21.2	5.6	12.7	28.5
425	LDEQ0954	12	21.9	23.4	8.1	8.0	31.8	22.6	24.3	8.0	7.4	31.7
427	LDEQ0337	12	22.9	24.5	7.1	12.3	31.2	22.5	24.3	6.6	11.8	29.6
432	LDEQ0339	11	22.7	22.5	6.4	14.5	31.6	22.5	23.0	4.8	14.9	29.3
436	LDEQ1199	12	22.3	21.4	7.2	13.6	32.0	19.7	18.6	7.8	8.0	30.1
438	LDEQ0934	11	21.6	21.3	6.8	12.3	31.2	22.5	24.7	6.4	13.9	30.1
439	LDEQ0960	5	22.2	23.5	5.6	13.1	26.7	22.6	24.3	8.3	8.6	29.5
454	LDEQ0113	12	22.7	22.8	7.3	9.1	32.1	21.0	19.9	7.4	8.7	31.6
459	LDEQ0936	11	21.9	21.7	6.6	13.0	31.2	22.8	24.4	5.9	14.0	30.3
460	LDEQ0338	3	19.4	18.9	6.9	12.8	26.6	18.6	17.8	7.3	11.6	26.2
475	LDEQ0344	12	21.1	20.9	7.5	8.6	30.8	21.2	20.5	7.5	8.7	32.0
494	LDEQ0952	13	21.8	21.1	5.4	11.3	28.4	21.5	21.0	7.2	9.1	31.1
498	LDEQ0928	12	21.0	21.1	8.4	8.6	31.6	21.2	21.9	9.0	5.3	31.9
499	LDEQ0941	12	22.4	21.2	6.5	14.2	31.5	22.1	21.4	6.5	11.3	31.4
510	LDEQ0949	11	21.0	21.3	2.8	17.0	25.8	23.5	23.9	5.3	14.5	31.2
512	LDEQ0937	8	21.6	22.0	7.1	10.2	30.6	20.1	22.5	8.3	8.6	30.2
518	LDEQ0896	11	22.5	22.5	6.2	14.3	31.3	23.3	24.6	5.5	14.1	29.7
522	LDEQ0039	47	18.8	18.8	8.7	3.6	32.0	19.3	19.7	8.3	4.3	31.9
533	LDEQ0961	11	20.7	20.3	2.4	17.4	24.5	22.6	22.9	5.2	15.0	31.2
536	LDEQ3586	11	22.2	22.2	6.0	14.2	30.8	23.2	25.0	5.9	13.7	30.5
538	LDEQ1200	12	20.5	20.0	7.7	10.6	31.3	24.2	24.8	5.9	16.2	32.2
559	LDEQ1201	12	19.8	20.1	8.4	8.9	31.0	20.8	21.8	8.1	9.8	31.8
561	LDEQ0948	12	22.0	21.2	5.1	14.4	29.0	22.3	22.2	6.4	13.6	31.3
563	LDEQ1203	12	19.7	20.2	8.5	8.8	31.3	20.8	21.9	7.9	9.8	31.6
569	LDEQ0933	12	19.6	20.4	9.6	3.8	31.1	20.4	20.3	9.4	5.0	31.5

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ICM Compartment	Station	# Observations	Predicted					Observed				
			Mean	Median	StDev	Min	Max	Mean	Median	StDev	Min	Max
585	LDEQ0950	12	21.8	21.3	4.6	15.3	28.1	22.3	22.5	6.3	13.7	30.2
586	LDEQ0955	7	21.9	21.3	5.6	15.4	29.7	21.0	19.6	5.8	12.1	28.9
593	LDEQ1202	12	19.6	20.4	8.6	8.4	31.4	20.7	21.6	8.3	9.5	32.3
598	LDEQ0962	11	20.5	20.9	2.3	17.3	23.7	23.3	23.5	5.0	16.3	31.1
648	LDEQ0692	6	21.4	21.5	7.7	10.2	29.7	22.3	23.8	6.3	13.1	28.5
649	LDEQ0957	12	21.2	21.9	3.5	16.1	25.6	22.4	22.5	6.1	14.2	30.0
658	LDEQ0685	12	19.2	21.2	9.3	4.1	30.3	20.7	22.8	9.0	5.9	31.3
678	LDEQ0683	12	21.0	20.6	6.2	12.9	29.4	21.8	21.4	7.0	9.6	31.1
692	LDEQ0691	6	20.2	19.7	6.6	13.0	28.1	22.5	22.7	7.4	11.2	31.1
718	LDEQ0693	12	21.2	21.3	5.5	14.1	28.5	21.9	21.8	7.5	8.4	31.3
719	LDEQ1204	6	20.1	21.4	6.1	12.3	27.3	21.5	22.5	8.9	11.2	31.8
724	LDEQ0316	6	20.7	21.3	6.5	11.4	28.8	20.3	22.0	9.9	7.2	31.4
728	LDEQ2116	15	21.7	20.8	6.1	10.5	29.8	21.1	20.8	7.8	8.6	30.8
729	LDEQ0696	12	20.9	20.4	5.7	11.6	28.5	21.5	21.9	8.6	7.6	31.5
732	LDEQ0679	7	21.8	20.9	5.4	15.2	28.5	23.0	20.4	6.3	13.6	31.0
747	LDEQ0678	8	22.1	21.7	6.0	12.1	29.1	19.0	19.7	9.1	8.1	31.1
748	LDEQ0003	47	20.2	20.0	8.9	3.7	32.1	22.0	22.8	7.1	7.7	32.6
750	LDEQ0660	12	22.3	22.3	6.8	11.0	31.2	22.7	23.6	7.8	9.4	32.5
752	LDEQ0697	12	20.9	21.0	4.0	14.9	27.1	21.4	21.8	8.4	7.8	31.3
773	LDEQ0655	13	21.1	22.0	8.2	6.3	31.8	22.1	23.0	8.0	8.6	31.8
782	LDEQ0695	12	22.2	21.8	6.3	11.2	29.9	21.8	22.3	7.8	9.6	31.2
784	LDEQ0098	13	21.2	21.4	8.0	6.3	32.0	21.7	21.4	8.0	7.5	32.2
802	LDEQ0822	12	18.7	21.2	7.3	8.5	27.2	22.3	22.1	6.6	10.7	31.1
815	LDEQ0823	12	21.2	22.9	6.1	9.9	27.9	23.3	25.4	6.9	12.0	31.2
816	LDEQ2115	14	23.0	24.3	6.6	10.2	31.5	21.8	23.1	8.2	6.5	31.6
826	LDEQ0657	12	22.6	22.6	7.2	9.3	31.9	22.2	23.2	8.5	8.8	32.9

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ICM Compartment	Station	# Observations	Predicted					Observed				
			Mean	Median	StDev	Min	Max	Mean	Median	StDev	Min	Max
829	LDEQ0851	12	22.5	22.0	6.7	14.7	32.0	23.1	21.6	7.3	10.4	32.5
833	LDEQ0026	48	21.2	21.3	5.7	8.5	28.6	22.4	22.7	7.5	7.5	32.1
842	LDEQ2752	12	21.1	21.2	5.7	13.1	29.0	22.4	21.9	7.1	11.4	32.2
846	LDEQ0827	12	21.3	21.5	4.9	14.2	27.8	21.4	20.2	6.7	11.0	30.9
849	LDEQ0828	12	22.1	21.3	6.0	14.8	30.8	21.8	21.3	6.9	11.0	31.1
850	LDEQ0029	14	21.5	22.3	4.5	12.6	28.0	21.3	23.0	8.2	6.3	30.6
852	LDEQ0826	12	21.4	21.5	4.4	15.3	27.3	21.9	20.6	7.0	10.9	31.7
855	LDEQ2114	12	20.3	19.9	2.5	17.2	23.8	21.5	22.3	7.9	9.2	30.8
868	LDEQ1168	12	19.0	21.0	9.2	5.1	29.1	20.2	22.3	9.0	5.6	30.9
869	LDEQ1169	12	21.4	23.6	8.3	9.1	30.8	21.0	23.3	9.7	6.7	32.7
872	LDEQ0091	12	18.8	20.2	9.6	2.9	30.1	20.5	22.2	8.9	6.6	32.3
899	LDEQ1157	12	21.4	23.4	8.1	9.5	30.5	20.8	23.1	9.7	4.7	32.0
908	LDEQ0852	12	21.1	21.3	2.2	18.3	24.2	23.3	25.4	6.8	13.0	30.5
916	LDEQ1158	7	22.3	22.3	4.7	15.1	26.9	22.7	23.6	9.3	8.5	31.6
926	LDEQ1159	6	20.9	20.7	3.2	16.6	24.8	21.6	21.9	7.6	9.7	30.6
937	LDEQ1170	12	20.4	20.3	2.4	17.3	23.8	22.0	23.2	7.6	9.1	30.9

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Table 2: Model Performance for Mean Daily Temperature (deg C) for Calibration Period, 2010-2013.

ICM Compartment	Station	# Observations	Daily RMSE	Daily Bias	Two-week RMSE	Two-week Bias	Monthly RMSE	Monthly Bias	Annual RMSE	Annual Bias
23	LDEQ3594	11	4.2	-2.6	4.4	-3.0	2.0	-2.6	2.1	-2.9
26	LDEQ0032	11	2.5	-1.5	2.5	-1.5	1.2	-1.5	1.2	-0.9
28	LDEQ1089	8	4.0	-0.6	4.0	-0.6	1.6	-0.6	1.9	0.5
30	LDEQ0105	46	3.7	-1.0	3.7	-1.0	3.6	-1.0	1.2	-1.0
31	LDEQ1073	12	4.8	0.6	4.8	0.6	2.4	0.6	2.8	2.3
35	LDEQ0035	5	5.0	0.9	5.0	0.9	1.6	0.9	3.0	2.8
36	LDEQ1047	12	2.5	0.4	2.5	0.4	1.3	0.4	0.2	0.4
37	LDEQ1043	12	5.0	-2.0	5.0	-2.0	2.5	-2.0	2.6	-0.2
39	LDEQ1087	7	5.3	0.1	5.3	0.1	2.0	0.1	4.1	2.2
42	LDEQ1086	15	3.9	-0.8	3.9	-0.8	2.2	-0.8	2.2	0.6
45	LDEQ0138	46	3.9	0.4	3.8	0.3	3.7	0.3	0.6	0.4
46	LDEQ1062	12	4.0	-1.6	4.0	-1.6	2.0	-1.6	2.3	0.0
48	LDEQ0106	47	2.6	0.2	2.6	0.1	2.6	0.2	0.4	0.2
49	LDEQ1084	3	4.2	3.5	4.2	3.5	1.0	3.5	1.7	3.5
52	LDEQ1082	8	4.7	-0.7	4.7	-0.7	1.9	-0.7	3.1	1.2
53	LDEQ1063	12	3.7	-1.5	3.7	-1.5	1.9	-1.5	2.1	0.0
55	LDEQ1083	7	4.8	-0.3	4.8	-0.3	1.8	-0.3	4.6	2.9
59	LDEQ0638	13	4.7	1.1	4.7	1.1	2.2	0.6	2.4	2.4
65	LDEQ1095	12	2.5	-1.0	2.5	-1.0	1.3	-1.0	1.5	0.1
66	LDEQ0307	12	3.9	-1.4	3.9	-1.4	2.0	-1.4	2.3	0.2
66	LDEQ0307	12	3.9	-1.4	3.9	-1.4	2.0	-1.4	2.3	0.2
66	LDEQ0307	12	3.9	-1.4	3.9	-1.4	2.0	-1.4	2.3	0.2
81	LDEQ1081	15	3.3	0.6	3.3	0.6	1.9	0.6	2.8	1.9
82	LDEQ0006	8	4.1	0.5	4.1	0.5	1.7	0.5	3.2	1.7
97	LDEQ0298	11	4.0	1.1	4.0	1.1	1.9	1.1	2.6	2.4
107	LDEQ0007	7	3.7	0.6	3.7	0.6	1.4	0.6	4.2	2.7

DRAFT

ICM Compartment	Station	# Observations	Daily RMSE	Daily Bias	Two-week RMSE	Two-week Bias	Monthly RMSE	Monthly Bias	Annual RMSE	Annual Bias
129	LDEQ1093	12	2.1	0.2	2.1	0.2	1.0	0.2	0.8	0.6
130	LDEQ0905	11	1.7	0.9	1.7	0.9	0.8	0.9	1.1	1.3
136	LDEQ0036	12	4.6	1.0	4.6	1.0	2.3	1.0	3.6	3.1
150	LDEQ1102	16	4.6	0.7	4.6	0.7	2.4	1.3	2.6	2.5
155	LDEQ1080	8	3.8	0.4	3.8	0.4	1.5	0.4	2.8	1.3
156	LDEQ1092	12	4.0	0.0	4.0	0.0	2.0	0.0	1.7	1.1
199	LDEQ0904	11	1.9	0.4	1.9	0.4	0.9	0.4	0.8	0.7
209	LDEQ0304	12	3.4	0.2	3.4	0.2	1.7	0.2	0.7	0.6
213	LDEQ3958	12	4.4	-0.9	4.4	-0.9	2.2	-0.9	1.0	-0.2
215	LDEQ0228	12	3.5	-0.6	3.5	-0.6	1.8	-0.6	2.0	0.8
226	LDEQ0909	12	3.4	-0.3	3.4	-0.3	1.7	-0.3	2.1	1.1
248	LDEQ0901	4	1.6	0.8	1.6	0.8	0.5	0.8	0.4	0.8
251	LDEQ0636	4	2.0	0.3	2.0	0.3	0.6	0.3	0.1	0.3
252	LDEQ4345	12	4.3	-0.7	4.3	-0.7	2.2	-0.7	2.6	1.1
253	LDEQ0899	11	1.8	0.0	1.8	0.0	0.9	0.0	0.3	0.2
257	LDEQ0908	12	4.1	-0.5	4.1	-0.5	2.0	-0.5	2.6	1.3
258	LDEQ0243	16	3.3	-0.7	3.3	-0.7	1.7	-0.4	1.6	0.6
268	LDEQ0292	11	2.1	-0.7	2.1	-0.7	1.0	-0.7	0.6	-0.3
277	LDEQ0898	11	1.8	-0.2	1.8	-0.2	0.8	-0.2	0.7	0.2
278	LDEQ0907	12	3.4	0.0	3.4	0.0	1.7	0.0	2.2	1.4
287	LDEQ0903	11	2.2	-0.1	2.2	-0.1	1.1	-0.1	1.0	0.6
295	LDEQ0897	11	1.8	0.0	1.8	0.0	0.9	0.0	0.4	0.3
297	LDEQ0918	12	2.6	1.2	2.6	1.2	1.3	1.2	1.2	1.6
298	LDEQ0084	12	4.8	1.3	4.8	1.3	2.3	1.7	2.9	2.8
307	LDEQ0926	12	4.3	-1.3	4.3	-1.3	2.2	-1.3	2.5	0.5
309	LDEQ0336	14	2.8	1.8	2.8	1.8	1.3	1.5	1.2	1.0
309	LDEQ0336	14	2.8	1.8	2.8	1.8	1.3	1.5	1.2	1.0

DRAFT

ICM Compartment	Station	# Observations	Daily RMSE	Daily Bias	Two-week RMSE	Two-week Bias	Monthly RMSE	Monthly Bias	Annual RMSE	Annual Bias
309	LDEQ0336	14	2.8	1.8	2.8	1.8	1.3	1.5	1.2	1.0
312	LDEQ0945	12	2.8	-0.9	2.8	-0.9	1.4	-0.9	0.9	-0.3
314	LDEQ0922	12	3.1	-0.7	3.1	-0.7	1.5	-0.7	1.4	0.3
316	LDEQ2843	12	4.2	-1.2	4.2	-1.2	2.1	-1.2	2.0	0.2
324	LDEQ0341	12	3.4	1.6	3.4	1.6	1.7	1.6	2.2	2.6
325	LDEQ2844	12	2.2	-0.7	2.2	-0.7	1.1	-0.7	0.8	-0.2
331	LDEQ0925	12	3.1	-0.4	3.1	-0.4	1.5	-0.4	1.5	0.6
342	LDEQ0293	48	2.0	0.7	2.0	0.7	1.9	0.8	0.8	0.7
343	LDEQ0080	12	1.3	0.7	1.3	0.7	0.6	0.7	0.4	0.5
348	LDEQ0924	12	7.2	-2.6	7.2	-2.6	3.6	-2.6	3.0	-0.5
349	LDEQ0340	11	2.6	-0.4	2.6	-0.4	1.3	-0.4	0.8	0.2
361	LDEQ0946	12	3.9	-0.7	3.9	-0.7	1.9	-0.4	2.2	0.8
363	LDEQ1198	12	2.2	1.9	2.2	1.9	1.1	1.9	1.8	2.3
366	LDEQ0923	12	2.4	-1.5	2.4	-1.5	1.2	-1.5	1.0	-1.5
368	LDEQ0349	15	2.8	0.6	2.8	0.6	1.6	0.6	1.2	1.0
372	LDEQ0347	15	2.7	0.4	2.7	0.4	1.5	0.4	1.2	0.8
372	LDEQ0347	15	2.7	0.4	2.7	0.4	1.5	0.4	1.2	0.8
377	LDEQ0953	12	5.2	-1.7	5.2	-1.7	2.6	-1.7	2.7	0.2
381	LDEQ3001	11	2.2	-0.3	2.2	-0.3	1.0	-0.3	0.2	-0.2
392	LDEQ1196	12	0.8	-0.3	0.8	-0.3	0.4	-0.3	0.3	-0.1
393	LDEQ0930	0	-	-	-	-	-	-	-	-
394	LDEQ0110	11	3.3	-1.8	3.3	-1.8	1.6	-1.8	1.3	-1.2
399	LDEQ0346	12	3.3	-0.9	3.3	-0.9	1.6	-0.9	1.1	-0.1
413	LDEQ0144	12	2.6	0.9	2.6	0.9	1.3	0.9	1.0	1.3
419	LDEQ0959	4	8.2	-2.3	8.2	-2.3	2.4	-2.3	6.5	2.2
421	LDEQ0940	12	4.1	0.0	4.1	0.0	2.1	0.0	2.0	1.2
425	LDEQ0954	12	3.0	-0.8	3.0	-0.8	1.5	-0.8	1.2	0.1

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ICM Compartment	Station	# Observations	Daily RMSE	Daily Bias	Two-week RMSE	Two-week Bias	Monthly RMSE	Monthly Bias	Annual RMSE	Annual Bias
427	LDEQ0337	12	1.0	0.4	1.0	0.4	0.5	0.4	0.3	0.3
432	LDEQ0339	11	2.3	0.2	2.3	0.2	1.1	0.2	0.2	0.2
436	LDEQ1199	12	3.0	2.6	3.0	2.6	1.5	2.6	1.7	2.3
438	LDEQ0934	11	2.0	-0.9	2.0	-0.9	1.0	-0.9	0.9	-0.4
439	LDEQ0960	5	2.6	-0.5	2.6	-0.5	0.8	0.0	0.4	-0.6
454	LDEQ0113	12	2.9	1.7	2.9	1.7	1.5	1.7	1.4	2.0
459	LDEQ0936	11	1.7	-0.8	1.7	-0.8	0.8	-0.8	0.7	-0.4
460	LDEQ0338	3	1.0	0.9	1.0	0.9	0.2	0.9	0.4	0.9
475	LDEQ0344	12	2.8	-0.1	2.8	-0.1	1.4	-0.1	1.2	0.6
494	LDEQ0952	13	3.6	0.3	3.6	0.3	1.9	0.4	1.8	1.5
498	LDEQ0928	12	2.8	-0.1	2.8	-0.1	1.4	-0.1	1.3	0.7
499	LDEQ0941	12	1.7	0.4	1.7	0.4	0.9	0.4	0.9	0.8
510	LDEQ0949	11	4.1	-2.5	4.1	-2.5	1.9	-2.5	1.9	-1.5
512	LDEQ0937	8	3.1	1.5	3.1	1.5	1.3	1.5	2.6	2.2
518	LDEQ0896	11	2.1	-0.8	2.1	-0.8	1.0	-0.8	0.5	-0.5
522	LDEQ0039	47	1.7	-0.5	1.7	-0.5	1.7	-0.5	0.6	-0.5
533	LDEQ0961	11	4.4	-1.9	4.4	-1.9	2.1	-1.9	2.0	-0.6
536	LDEQ3586	11	1.8	-1.0	1.8	-1.0	0.9	-1.0	0.7	-0.6
538	LDEQ1200	12	4.6	-3.7	4.6	-3.7	2.3	-3.7	2.5	-3.5
559	LDEQ1201	12	1.6	-1.0	1.6	-1.0	0.8	-1.0	0.8	-0.6
561	LDEQ0948	12	2.9	-0.3	2.9	-0.3	1.5	-0.3	2.1	1.1
563	LDEQ1203	12	1.7	-1.1	1.7	-1.1	0.8	-1.1	0.7	-0.8
569	LDEQ0933	12	3.8	-0.7	3.8	-0.7	1.9	-0.7	2.3	0.8
585	LDEQ0950	12	3.1	-0.5	3.1	-0.5	1.5	-0.5	2.0	0.9
586	LDEQ0955	7	3.4	0.9	3.4	0.9	1.3	0.9	2.0	1.9
593	LDEQ1202	12	1.4	-1.1	1.4	-1.1	0.7	-1.1	0.7	-0.8
598	LDEQ0962	11	5.1	-2.8	5.1	-2.8	2.4	-2.8	2.4	-1.3

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ICM Compartment	Station	# Observations	Daily RMSE	Daily Bias	Two-week RMSE	Two-week Bias	Monthly RMSE	Monthly Bias	Annual RMSE	Annual Bias
648	LDEQ0692	6	2.2	-0.9	2.2	-0.9	0.8	-0.9	0.8	-1.1
649	LDEQ0957	12	4.3	-1.2	4.3	-1.2	2.2	-1.2	2.4	0.5
658	LDEQ0685	12	3.6	-1.6	3.6	-1.6	1.8	-1.6	2.2	0.0
678	LDEQ0683	12	3.5	-0.8	3.5	-0.8	1.8	-0.8	1.5	0.3
692	LDEQ0691	6	3.7	-2.2	3.7	-2.2	1.3	-2.2	1.3	-1.3
718	LDEQ0693	12	4.5	-0.7	4.5	-0.7	2.3	-0.7	2.0	0.7
719	LDEQ1204	6	3.3	-1.4	3.3	-1.4	1.2	-1.4	1.5	-0.7
724	LDEQ0316	6	4.9	0.5	4.9	0.5	1.7	0.5	2.7	1.6
728	LDEQ2116	15	4.9	0.6	4.9	0.6	2.7	0.6	4.0	2.7
729	LDEQ0696	12	4.6	-0.6	4.6	-0.6	2.3	-0.6	2.2	1.0
732	LDEQ0679	7	3.6	-1.2	3.6	-1.2	1.4	-1.2	2.7	0.8
747	LDEQ0678	8	6.7	3.2	6.7	3.2	2.7	3.2	5.9	4.8
748	LDEQ0003	47	4.0	-1.8	4.0	-1.8	3.9	-1.8	1.9	-1.8
750	LDEQ0660	12	3.8	-0.4	3.8	-0.4	1.9	-0.4	2.4	1.2
752	LDEQ0697	12	6.2	-0.4	6.2	-0.4	3.1	-0.4	2.9	1.5
773	LDEQ0655	13	3.2	-1.0	3.2	-1.0	1.6	-0.8	2.2	0.7
782	LDEQ0695	12	2.9	0.4	2.9	0.4	1.5	0.4	2.0	1.5
784	LDEQ0098	13	2.4	-0.6	2.4	-0.6	1.2	-0.4	1.8	0.8
802	LDEQ0822	12	5.9	-3.6	5.9	-3.6	3.0	-3.6	3.3	-1.4
815	LDEQ0823	12	6.3	-2.1	6.3	-2.1	3.1	-2.1	3.4	0.3
816	LDEQ2115	14	3.1	1.2	3.1	1.2	1.7	1.2	1.9	2.2
826	LDEQ0657	12	2.2	0.4	2.2	0.4	1.1	0.4	1.3	1.1
829	LDEQ0851	12	2.7	-0.6	2.7	-0.6	1.3	-0.6	0.6	-0.2
833	LDEQ0026	48	4.8	-1.2	4.8	-1.2	4.8	-1.2	1.3	-1.2
842	LDEQ2752	12	5.1	-1.3	5.1	-1.3	2.6	-1.3	2.5	0.5
846	LDEQ0827	12	4.3	-0.2	4.3	-0.2	2.1	-0.2	2.2	1.3
849	LDEQ0828	12	3.2	0.3	3.2	0.3	1.6	0.3	1.4	1.2

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ICM Compartment	Station	# Observations	Daily RMSE	Daily Bias	Two-week RMSE	Two-week Bias	Monthly RMSE	Monthly Bias	Annual RMSE	Annual Bias
850	LDEQ0029	14	5.0	0.2	5.0	0.2	2.7	0.2	2.5	1.9
852	LDEQ0826	12	4.5	-0.5	4.5	-0.5	2.3	-0.5	2.1	0.9
855	LDEQ2114	12	7.1	-1.2	7.1	-1.2	3.6	-1.2	2.4	0.5
868	LDEQ1168	12	5.8	-1.2	5.8	-1.2	2.9	-1.2	3.2	1.0
869	LDEQ1169	12	3.8	0.4	3.8	0.4	1.9	0.4	2.3	1.8
872	LDEQ0091	12	4.4	-1.7	4.4	-1.7	2.2	-1.7	2.8	0.2
899	LDEQ1157	12	3.8	0.6	3.8	0.6	1.9	0.6	2.3	1.9
908	LDEQ0852	12	6.2	-2.1	6.2	-2.1	3.1	-2.1	2.5	-0.3
916	LDEQ1158	7	5.9	-0.4	5.9	-0.4	2.1	0.3	3.2	1.4
926	LDEQ1159	6	6.3	-0.8	6.3	-0.8	2.2	-0.8	2.6	1.5
937	LDEQ1170	12	7.1	-1.6	7.1	-1.6	3.5	-1.6	2.1	-0.1

DRAFT

Table 3: Summary of Modeled and Observed Mean Daily Temperature (deg C) for Validation Period, 2006-2009.

ICM Compartment	Station	# Observations	Predicted					Observed				
			Mean	Median	StDev	Min	Max	Mean	Median	StDev	Min	Max
23	LDEQ3594	11	18.0	15.9	8.8	7.6	29.9	21.6	21.7	7.5	9.1	30.5
26	LDEQ0032	24	19.9	19.2	6.6	9.5	28.4	22.1	22.8	6.7	9.2	31.2
28	LDEQ1089	12	21.7	21.9	4.7	13.3	27.6	23.0	25.4	7.3	10.6	31.5
30	LDEQ0105	51	19.9	19.5	7.3	7.1	29.4	22.3	23.9	6.9	9.5	33.0
31	LDEQ1073	12	20.3	19.6	5.4	13.6	27.6	21.6	22.1	7.0	10.1	30.5
35	LDEQ0035	12	20.6	19.8	5.8	13.3	28.5	21.3	22.3	7.5	10.7	30.5
36	LDEQ1047	11	23.0	24.6	7.2	11.2	31.3	23.0	25.3	6.8	7.9	31.1
37	LDEQ1043	12	21.3	21.8	6.4	11.6	29.1	23.8	26.0	7.0	11.4	32.1
39	LDEQ1087	12	20.2	19.7	4.9	13.5	27.2	23.4	24.7	6.9	10.4	31.8
42	LDEQ1086	12	20.9	21.2	5.3	12.9	28.4	23.6	25.0	6.8	10.0	31.9
45	LDEQ0138	51	21.8	21.5	5.8	12.0	29.7	21.7	22.5	7.0	9.3	30.6
46	LDEQ1062	24	21.0	20.4	5.4	13.3	28.5	21.1	19.5	6.8	10.1	32.0
48	LDEQ0106	50	21.9	21.9	6.5	9.9	30.8	22.4	23.0	6.7	8.4	32.3
49	LDEQ1084	12	20.6	20.3	5.3	13.8	28.3	23.3	24.4	7.1	10.2	33.1
52	LDEQ1082	12	20.2	20.3	5.2	12.9	27.5	23.1	23.4	5.6	12.7	30.7
53	LDEQ1063	24	21.1	20.5	5.5	13.1	28.7	21.7	21.8	6.9	9.8	31.5
55	LDEQ1083	12	21.1	21.7	5.4	12.9	28.8	22.9	22.7	5.7	13.2	31.2
59	LDEQ0638	12	21.7	22.0	6.9	11.8	30.3	23.2	25.2	6.6	10.1	30.5
65	LDEQ1095	12	18.9	19.1	6.5	10.1	26.1	20.0	18.8	7.4	9.9	29.3
66	LDEQ0307	24	21.1	20.5	5.7	12.8	29.0	21.2	20.9	7.4	10.3	31.3
66	LDEQ0307	24	21.1	20.5	5.7	12.8	29.0	21.2	20.9	7.4	10.3	31.3
66	LDEQ0307	24	21.1	20.5	5.7	12.8	29.0	21.2	20.9	7.4	10.3	31.3
81	LDEQ1081	13	24.0	25.8	6.8	12.1	32.2	24.0	25.6	6.7	11.8	32.6
82	LDEQ0006	12	21.2	22.1	5.7	12.6	29.0	22.8	22.4	5.7	12.9	30.6
97	LDEQ0298	15	19.4	17.7	6.2	11.8	30.6	19.2	18.1	5.2	12.0	26.5

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ICM Compartment	Station	# Observations	Predicted					Observed				
			Mean	Median	StDev	Min	Max	Mean	Median	StDev	Min	Max
107	LDEQ0007	13	24.2	26.0	6.9	12.3	32.4	24.6	26.2	6.5	11.2	32.2
129	LDEQ1093	12	18.0	18.0	7.4	7.6	27.3	19.0	18.9	8.5	7.2	29.4
130	LDEQ0905	11	22.7	20.6	6.3	15.3	31.6	21.0	19.6	6.8	10.1	30.6
136	LDEQ0036	12	22.5	23.9	7.5	10.6	31.3	23.9	26.9	6.7	11.4	30.6
150	LDEQ1102	11	19.3	17.4	5.4	13.5	30.2	20.8	19.7	5.9	14.4	30.7
155	LDEQ1080	13	23.7	25.2	6.6	12.5	31.5	25.0	26.0	6.0	13.0	32.1
156	LDEQ1092	12	18.8	19.1	5.2	11.6	24.6	19.6	18.8	7.6	8.1	28.6
199	LDEQ0904	11	22.9	20.7	6.1	15.1	31.5	21.6	23.7	6.6	10.9	30.8
209	LDEQ0304	15	23.9	26.1	6.8	12.2	32.3	22.9	26.0	8.0	9.3	31.9
213	LDEQ3958	3	20.9	21.7	7.5	13.1	28.0	20.2	18.5	5.7	15.5	26.5
215	LDEQ0228	14	19.0	17.7	5.7	11.1	30.3	20.7	19.6	5.9	13.5	30.7
226	LDEQ0909	12	21.6	21.2	4.8	14.3	28.6	21.5	20.8	7.7	10.7	33.5
248	LDEQ0901	11	22.8	20.3	6.3	15.1	31.1	21.3	22.0	7.4	10.1	31.2
251	LDEQ0636	11	21.7	20.0	6.9	12.9	30.7	20.6	22.5	7.6	7.9	30.1
252	LDEQ4345	0	-	-	-	-	-	-	-	-	-	-
253	LDEQ0899	11	23.1	20.7	6.2	15.0	31.5	22.2	25.3	7.6	9.7	31.3
257	LDEQ0908	12	21.4	21.1	4.5	14.7	27.9	21.0	21.0	7.7	10.7	31.3
258	LDEQ0243	11	18.6	17.2	6.2	11.0	30.3	21.1	20.9	6.1	14.0	31.7
268	LDEQ0292	11	21.9	20.0	6.8	13.4	31.4	21.3	24.2	7.4	10.9	30.4
277	LDEQ0898	11	22.8	20.3	6.1	15.3	30.9	22.1	23.1	7.3	9.6	31.8
278	LDEQ0907	12	21.8	21.3	5.3	14.1	29.6	21.4	21.3	7.5	10.8	31.7
287	LDEQ0903	11	22.2	20.3	6.3	14.0	31.3	21.3	24.0	7.6	10.7	30.5
295	LDEQ0897	11	22.8	20.2	5.9	15.3	30.6	21.3	22.8	7.5	9.3	30.4
297	LDEQ0918	12	23.2	22.7	7.2	11.4	32.1	22.0	22.4	6.5	11.5	31.4
298	LDEQ0084	15	21.5	20.8	6.9	13.3	31.5	21.2	18.5	5.8	14.1	30.2
307	LDEQ0926	12	21.3	21.4	4.2	15.2	27.3	21.9	22.1	7.0	12.1	30.6

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ICM Compartment	Station	# Observations	Predicted					Observed				
			Mean	Median	StDev	Min	Max	Mean	Median	StDev	Min	Max
309	LDEQ0336	12	21.9	18.9	7.6	10.2	33.1	21.4	20.2	6.3	11.4	30.1
309	LDEQ0336	12	21.9	18.9	7.6	10.2	33.1	21.4	20.2	6.3	11.4	30.1
309	LDEQ0336	12	21.9	18.9	7.6	10.2	33.1	21.4	20.2	6.3	11.4	30.1
312	LDEQ0945	15	21.4	19.8	7.1	12.9	30.8	22.7	23.3	7.1	10.9	31.3
314	LDEQ0922	12	21.6	21.4	5.4	13.1	29.4	23.8	24.2	6.5	12.6	32.0
316	LDEQ2843	14	20.4	18.6	6.8	12.7	30.8	21.8	22.3	6.7	10.9	30.9
324	LDEQ0341	12	23.6	25.0	7.0	12.6	32.1	23.3	25.1	6.6	9.4	30.2
325	LDEQ2844	15	21.7	20.5	7.1	11.9	30.9	21.8	23.8	7.2	10.1	30.2
331	LDEQ0925	12	22.1	22.1	5.9	13.0	30.4	22.2	22.2	7.0	12.3	31.2
342	LDEQ0293	49	22.4	21.6	7.0	8.8	32.6	21.8	21.4	6.6	8.4	32.7
343	LDEQ0080	11	22.2	17.9	6.8	15.4	32.4	21.0	19.9	6.9	11.4	31.8
348	LDEQ0924	12	20.1	19.1	2.9	16.9	24.2	24.4	26.8	6.0	10.3	30.1
349	LDEQ0340	11	20.8	20.9	6.8	11.4	30.7	21.8	20.3	6.0	13.2	29.5
361	LDEQ0946	15	20.9	21.6	6.4	12.3	29.8	22.0	19.3	5.8	13.5	31.1
363	LDEQ1198	12	22.4	22.9	7.1	12.7	33.2	21.4	21.6	7.0	11.5	31.5
366	LDEQ0923	12	24.1	26.1	6.3	13.0	31.4	24.6	26.8	5.9	11.7	30.8
368	LDEQ0349	12	21.5	20.8	7.3	11.5	30.8	22.2	22.0	6.4	12.8	31.6
372	LDEQ0347	12	21.4	20.7	7.4	11.0	31.0	22.2	21.9	5.9	13.2	30.5
372	LDEQ0347	12	21.4	20.7	7.4	11.0	31.0	22.2	21.9	5.9	13.2	30.5
377	LDEQ0953	12	21.0	20.7	3.4	16.4	26.0	22.2	22.1	6.8	12.0	31.0
381	LDEQ3001	11	22.7	22.4	5.4	15.7	30.0	22.8	21.7	5.8	14.5	31.1
392	LDEQ1196	12	17.5	18.6	8.9	5.1	29.6	18.3	19.2	8.8	5.7	29.8
393	LDEQ0930	12	21.9	20.3	7.3	13.4	32.1	20.1	19.1	5.8	13.5	28.9
394	LDEQ0110	11	20.6	19.2	7.3	10.4	30.5	22.2	20.9	5.6	15.1	29.8
399	LDEQ0346	12	24.6	27.8	7.6	11.9	32.7	24.8	26.3	6.5	10.6	31.9
413	LDEQ0144	12	22.5	22.1	6.5	13.2	31.8	21.4	21.2	7.5	12.4	31.6

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ICM Compartment	Station	# Observations	Predicted					Observed				
			Mean	Median	StDev	Min	Max	Mean	Median	StDev	Min	Max
419	LDEQ0959	12	20.4	19.7	3.0	17.0	24.5	24.8	26.4	6.4	11.0	31.2
421	LDEQ0940	12	20.7	20.3	7.6	9.8	30.8	22.9	22.8	5.8	14.3	31.5
425	LDEQ0954	12	24.1	26.9	7.4	11.8	31.9	24.7	26.4	6.4	10.7	32.0
427	LDEQ0337	10	21.0	17.8	7.5	10.9	30.7	21.5	20.8	6.9	10.5	30.9
432	LDEQ0339	11	22.0	19.8	6.4	13.6	31.4	22.0	22.2	4.4	16.7	28.5
436	LDEQ1199	12	21.9	21.9	6.5	12.7	31.9	19.3	18.6	7.8	9.5	30.2
438	LDEQ0934	11	20.6	19.9	6.9	10.7	30.7	21.4	21.2	6.6	12.3	30.4
439	LDEQ0960	11	22.5	22.7	4.7	13.6	27.6	25.2	27.0	5.9	11.1	31.7
454	LDEQ0113	12	23.8	25.4	6.9	10.8	32.0	24.0	27.7	7.1	9.7	32.0
459	LDEQ0936	0	-	-	-	-	-	-	-	-	-	-
460	LDEQ0338	12	23.7	21.9	7.0	14.1	32.1	23.0	24.2	6.9	10.6	32.2
475	LDEQ0344	12	21.8	22.9	7.7	9.6	31.1	23.6	26.5	7.3	9.3	31.6
494	LDEQ0952	11	22.3	23.1	5.9	10.0	28.1	25.2	27.1	6.1	10.5	32.0
498	LDEQ0928	15	20.3	18.0	7.3	10.3	30.8	21.9	22.7	6.8	10.5	31.6
499	LDEQ0941	12	22.9	23.0	6.7	12.0	31.7	23.1	22.8	7.0	13.2	32.2
510	LDEQ0949	11	21.0	21.3	2.8	17.4	25.4	20.3	17.9	6.5	13.1	29.4
512	LDEQ0937	12	22.5	22.1	7.0	12.8	30.5	22.8	24.0	6.2	14.1	30.9
518	LDEQ0896	11	22.2	20.6	6.0	14.5	31.1	22.5	22.4	5.7	15.1	30.8
522	LDEQ0039	49	18.6	17.4	8.4	5.3	31.8	19.4	19.8	7.9	6.6	31.7
533	LDEQ0961	11	20.6	21.2	2.6	17.0	24.3	20.5	17.9	6.5	13.2	30.0
536	LDEQ3586	11	21.8	20.6	6.0	13.6	30.5	22.4	21.9	5.9	14.0	30.9
538	LDEQ1200	11	18.4	18.0	7.8	8.1	29.8	23.4	24.7	5.8	15.7	30.8
559	LDEQ1201	11	17.6	16.7	8.3	7.0	29.6	18.3	16.9	7.8	8.4	29.2
561	LDEQ0948	12	21.3	21.7	5.3	13.4	29.1	23.5	24.6	6.5	11.2	31.8
563	LDEQ1203	11	17.5	16.4	8.3	7.1	29.5	18.5	17.2	7.7	8.6	29.3
569	LDEQ0933	15	18.5	16.3	8.0	9.5	30.4	21.2	21.2	7.1	10.5	31.0

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ICM Compartment	Station	# Observations	Predicted					Observed				
			Mean	Median	StDev	Min	Max	Mean	Median	StDev	Min	Max
585	LDEQ0950	12	21.2	21.6	4.7	14.7	28.2	22.5	23.4	6.9	10.3	31.6
586	LDEQ0955	12	21.4	21.1	6.5	12.1	28.7	22.6	23.2	6.5	13.7	31.1
593	LDEQ1202	11	17.4	16.2	8.4	6.8	29.4	18.1	17.0	7.9	8.3	29.1
598	LDEQ0962	11	20.2	20.2	2.7	16.4	23.5	21.5	19.9	5.7	15.6	29.7
648	LDEQ0692	12	20.7	20.8	7.3	11.2	30.5	23.0	24.8	6.0	11.9	29.9
649	LDEQ0957	12	20.9	21.2	3.5	16.3	25.3	22.8	23.9	6.9	10.2	31.9
658	LDEQ0685	15	19.3	17.6	7.1	9.9	30.1	22.3	24.7	6.3	13.2	30.4
678	LDEQ0683	12	21.1	21.1	6.0	12.1	29.6	22.0	19.8	6.8	12.2	31.4
692	LDEQ0691	12	20.0	19.2	6.3	12.1	28.5	22.6	25.6	6.2	13.2	30.4
718	LDEQ0693	12	21.2	21.1	5.4	13.2	29.1	22.0	20.0	7.0	11.6	31.5
719	LDEQ1204	0	-	-	-	-	-	-	-	-	-	-
724	LDEQ0316	12	20.7	20.6	5.7	12.7	28.7	21.6	18.7	7.2	12.8	32.9
728	LDEQ2116	12	21.8	23.1	6.7	11.7	29.4	24.6	27.0	6.6	9.9	31.7
729	LDEQ0696	12	20.8	20.7	5.6	12.9	28.5	21.4	19.1	7.5	13.6	32.1
732	LDEQ0679	12	21.9	22.9	6.2	12.8	29.0	24.3	27.0	6.3	10.2	30.2
747	LDEQ0678	12	21.9	22.6	6.1	12.9	28.8	24.2	26.7	6.2	10.3	30.0
748	LDEQ0003	50	20.4	20.8	7.8	6.6	32.0	22.2	24.3	5.9	10.4	31.3
750	LDEQ0660	12	22.2	21.6	7.0	12.6	31.1	24.0	26.8	7.0	9.5	31.3
752	LDEQ0697	0	-	-	-	-	-	-	-	-	-	-
773	LDEQ0655	12	22.4	24.6	8.0	8.8	31.4	24.7	27.1	6.2	12.5	32.6
782	LDEQ0695	12	22.4	22.9	6.0	12.9	29.8	22.9	25.6	7.1	9.2	30.3
784	LDEQ0098	12	22.6	24.8	8.0	9.0	31.8	23.8	25.7	5.6	12.9	31.5
802	LDEQ0822	12	18.9	20.5	7.0	8.9	27.2	22.8	22.8	6.5	12.9	32.9
815	LDEQ0823	11	19.1	20.1	7.0	8.5	27.9	21.7	21.8	6.9	10.8	31.4
816	LDEQ2115	12	23.4	24.6	6.6	12.1	31.3	24.0	26.7	6.9	12.4	32.1
826	LDEQ0657	12	23.2	24.3	7.0	10.4	31.3	24.7	27.5	7.2	11.9	33.4

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ICM Compartment	Station	# Observations	Predicted					Observed				
			Mean	Median	StDev	Min	Max	Mean	Median	StDev	Min	Max
829	LDEQ0851	12	22.9	21.9	6.3	15.0	32.2	23.3	22.5	6.9	13.2	33.2
833	LDEQ0026	49	21.2	21.2	5.5	11.4	29.2	22.7	24.3	6.6	9.9	32.0
842	LDEQ2752	12	22.1	22.7	5.9	14.3	29.2	22.7	25.7	6.4	12.4	31.1
846	LDEQ0827	12	22.2	22.6	4.8	15.9	28.1	22.0	24.9	6.3	11.5	29.2
849	LDEQ0828	12	23.4	23.7	5.7	15.2	30.4	22.1	25.1	6.7	10.9	29.9
850	LDEQ0029	12	21.0	20.0	5.1	12.4	27.6	24.0	26.6	7.3	11.6	33.0
852	LDEQ0826	12	22.2	22.4	4.4	16.1	27.7	22.6	25.3	6.4	12.7	30.5
855	LDEQ2114	12	19.9	19.4	2.6	17.0	24.2	23.5	26.3	7.0	11.4	31.1
868	LDEQ1168	15	19.5	17.8	6.8	11.3	30.6	21.7	19.7	5.7	14.6	32.6
869	LDEQ1169	15	22.3	22.5	6.3	14.4	31.6	21.9	20.4	5.6	14.1	32.4
872	LDEQ0091	15	18.4	15.9	7.8	9.3	31.5	21.4	19.3	5.9	14.1	31.5
899	LDEQ1157	15	22.3	23.2	6.1	14.5	31.2	21.9	20.1	5.6	13.8	32.1
908	LDEQ0852	9	21.4	22.3	2.3	18.4	24.3	22.6	22.2	6.0	15.5	30.1
916	LDEQ1158	12	20.0	19.3	7.4	9.7	29.8	23.4	26.0	7.4	10.3	31.0
926	LDEQ1159	12	19.5	18.8	5.2	12.3	26.4	23.5	26.0	7.4	10.3	31.4
937	LDEQ1170	12	19.9	19.4	2.7	16.9	24.3	23.5	25.9	7.0	11.4	31.0

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Table 4: Model Performance for Mean Daily Temperature (deg C) for Validation Period, 2006-2009.

ICM Compartment	Station	# Observations	Daily RMSE	Daily Bias	Two-week RMSE	Two-week Bias	Monthly RMSE	Monthly Bias	Annual RMSE	Annual Bias
23	LDEQ3594	11	4.4	-3.6	4.6	-3.9	2.1	-3.9	2.5	-3.5
26	LDEQ0032	24	3.7	-2.3	3.7	-2.3	2.4	-2.1	2.1	-1.4
28	LDEQ1089	12	3.7	-1.3	3.7	-1.3	1.5	-0.7	0.7	-1.3
30	LDEQ0105	51	3.9	-2.4	3.9	-2.4	3.8	-2.3	2.4	-2.4
31	LDEQ1073	12	5.1	-1.3	5.1	-1.3	2.5	-1.1	0.6	-1.3
35	LDEQ0035	12	4.6	-0.8	4.6	-0.8	2.2	-0.8	0.4	-0.8
36	LDEQ1047	11	3.1	0.0	3.1	0.0	1.5	0.1	0.0	0.0
37	LDEQ1043	12	3.3	-2.6	3.3	-2.6	1.2	-2.2	1.3	-2.6
39	LDEQ1087	12	5.6	-3.3	5.6	-3.3	2.3	-2.4	1.6	-3.3
42	LDEQ1086	12	4.8	-2.8	4.8	-2.8	2.0	-2.1	1.4	-2.8
45	LDEQ0138	51	3.4	0.1	3.5	0.1	3.3	0.4	0.3	0.1
46	LDEQ1062	24	4.2	0.0	4.2	0.0	3.0	0.1	1.5	0.5
48	LDEQ0106	50	2.5	-0.4	2.5	-0.5	2.4	-0.3	0.6	-0.5
49	LDEQ1084	12	5.2	-2.7	5.2	-2.7	2.2	-2.0	1.4	-2.7
52	LDEQ1082	12	3.8	-2.8	3.8	-2.8	1.8	-2.8	1.4	-2.8
53	LDEQ1063	24	4.1	-0.6	4.1	-0.6	2.8	-0.5	1.5	0.1
55	LDEQ1083	12	2.7	-1.8	2.7	-1.8	1.2	-1.8	0.9	-1.8
59	LDEQ0638	12	2.9	-1.5	2.9	-1.5	1.1	-1.0	0.7	-1.5
65	LDEQ1095	12	2.3	-1.1	2.3	-1.1	1.2	-1.1	1.1	-0.3
66	LDEQ0307	24	3.8	-0.1	3.8	-0.1	2.7	-0.1	1.0	0.3
66	LDEQ0307	24	3.8	-0.1	3.8	-0.1	2.7	-0.1	1.0	0.3
66	LDEQ0307	24	3.8	-0.1	3.8	-0.1	2.7	-0.1	1.0	0.3
81	LDEQ1081	13	1.5	0.0	1.5	0.0	0.6	0.3	0.0	0.0
82	LDEQ0006	12	2.3	-1.6	2.3	-1.6	1.1	-1.7	0.8	-1.6
97	LDEQ0298	15	3.1	0.2	3.1	0.2	1.5	0.9	1.8	1.5
107	LDEQ0007	13	1.9	-0.4	1.9	-0.4	0.9	-0.2	0.2	-0.4

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ICM Compartment	Station	# Observations	Daily RMSE	Daily Bias	Two-week RMSE	Two-week Bias	Monthly RMSE	Monthly Bias	Annual RMSE	Annual Bias
129	LDEQ1093	12	1.7	-1.0	1.7	-1.0	0.8	-1.0	0.7	-1.0
130	LDEQ0905	11	2.4	1.7	2.4	1.7	1.1	1.7	1.4	1.9
136	LDEQ0036	12	3.0	-1.4	3.0	-1.4	1.3	-1.2	0.7	-1.4
150	LDEQ1102	11	3.2	-1.5	3.2	-1.5	1.3	-0.9	0.7	-1.5
155	LDEQ1080	13	2.6	-1.3	2.6	-1.3	1.2	-1.2	0.6	-1.3
156	LDEQ1092	12	2.8	-0.8	2.8	-0.8	1.4	-0.8	0.9	-0.2
199	LDEQ0904	11	3.1	1.3	3.1	1.3	1.5	1.3	2.1	2.2
209	LDEQ0304	15	3.1	1.0	3.1	1.0	1.2	1.2	1.1	1.4
213	LDEQ3958	3	2.5	0.8	2.5	0.8	0.6	0.8	0.4	0.8
215	LDEQ0228	14	2.7	-1.7	2.7	-1.7	1.2	-1.3	1.1	-1.0
226	LDEQ0909	12	3.6	0.1	3.6	0.1	1.8	0.1	1.7	1.1
248	LDEQ0901	11	3.5	1.4	3.5	1.4	1.7	1.4	2.5	2.5
251	LDEQ0636	11	3.2	1.1	3.2	1.1	1.5	1.1	2.1	2.1
252	LDEQ4345	0	-	-	-	-	-	-	-	-
253	LDEQ0899	11	3.4	0.9	3.4	0.9	1.6	0.9	2.0	1.9
257	LDEQ0908	12	4.0	0.4	4.0	0.4	2.0	0.4	1.9	1.5
258	LDEQ0243	11	3.3	-2.5	3.3	-2.5	1.3	-2.0	1.2	-2.5
268	LDEQ0292	11	3.0	0.6	3.0	0.6	1.5	0.6	2.0	1.6
277	LDEQ0898	11	3.2	0.7	3.2	0.7	1.6	0.7	1.8	1.6
278	LDEQ0907	12	3.1	0.4	3.1	0.4	1.5	0.4	1.3	1.1
287	LDEQ0903	11	3.3	0.9	3.3	0.9	1.6	0.9	2.1	2.0
295	LDEQ0897	11	3.7	1.5	3.7	1.5	1.8	1.5	2.4	2.6
297	LDEQ0918	12	2.0	1.2	2.0	1.2	1.0	1.2	0.8	1.2
298	LDEQ0084	15	2.5	0.2	2.5	0.2	1.4	0.4	0.8	0.8
307	LDEQ0926	12	4.9	-0.7	4.9	-0.7	2.4	-0.7	3.1	1.4
309	LDEQ0336	12	1.9	0.5	2.0	0.6	0.9	0.6	0.5	0.1
309	LDEQ0336	12	1.9	0.5	2.0	0.6	0.9	0.6	0.5	0.1

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ICM Compartment	Station	# Observations	Daily RMSE	Daily Bias	Two-week RMSE	Two-week Bias	Monthly RMSE	Monthly Bias	Annual RMSE	Annual Bias
309	LDEQ0336	12	1.9	0.5	2.0	0.6	0.9	0.6	0.5	0.1
312	LDEQ0945	15	3.0	-1.3	3.0	-1.3	1.4	-0.9	0.9	-0.8
314	LDEQ0922	12	3.8	-2.2	3.8	-2.2	1.9	-2.2	1.8	-1.0
316	LDEQ2843	14	4.3	-1.4	4.3	-1.4	1.9	-0.7	0.9	-0.9
324	LDEQ0341	12	3.0	0.3	3.0	0.3	1.3	0.6	0.2	0.3
325	LDEQ2844	15	2.7	-0.1	2.7	-0.1	1.3	0.3	0.3	0.1
331	LDEQ0925	12	3.8	-0.2	3.8	-0.2	1.9	-0.2	2.3	1.3
342	LDEQ0293	49	2.0	0.6	2.0	0.6	2.0	0.5	1.0	0.6
343	LDEQ0080	11	1.9	1.2	1.9	1.2	0.9	1.2	0.8	1.0
348	LDEQ0924	12	6.1	-4.3	6.1	-4.3	2.7	-3.7	2.1	-4.3
349	LDEQ0340	11	2.3	-1.0	2.3	-1.0	1.1	-1.0	0.8	-0.6
361	LDEQ0946	15	2.1	-1.1	2.1	-1.1	1.2	-1.1	0.7	-0.9
363	LDEQ1198	12	1.8	1.0	1.8	1.0	0.9	1.0	0.7	1.0
366	LDEQ0923	12	1.8	-0.5	1.8	-0.5	0.9	-0.6	0.2	-0.5
368	LDEQ0349	12	2.0	-0.7	2.0	-0.7	1.0	-0.8	0.3	-0.7
372	LDEQ0347	12	1.9	-0.8	1.9	-0.8	0.9	-0.8	0.4	-0.8
372	LDEQ0347	12	1.9	-0.8	1.9	-0.8	0.9	-0.8	0.4	-0.8
377	LDEQ0953	12	5.5	-1.2	5.5	-1.2	2.8	-1.2	3.4	1.2
381	LDEQ3001	11	2.3	-0.1	2.3	-0.1	1.1	-0.1	0.8	-0.6
392	LDEQ1196	12	1.0	-0.8	1.0	-0.8	0.5	-0.8	0.5	-0.6
393	LDEQ0930	12	2.7	1.9	2.7	1.9	1.4	1.9	0.9	1.9
394	LDEQ0110	11	3.4	-1.7	3.4	-1.7	1.6	-1.7	1.6	-0.7
399	LDEQ0346	12	2.2	-0.2	2.2	-0.2	1.0	0.0	0.1	-0.2
413	LDEQ0144	12	2.5	1.1	2.5	1.1	1.2	1.1	1.5	1.7
419	LDEQ0959	12	6.1	-4.4	6.1	-4.4	2.7	-3.9	2.2	-4.4
421	LDEQ0940	12	5.1	-2.2	5.1	-2.2	2.5	-2.2	2.1	-0.8
425	LDEQ0954	12	2.4	-0.6	2.4	-0.6	1.1	-0.4	0.3	-0.6

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ICM Compartment	Station	# Observations	Daily RMSE	Daily Bias	Two-week RMSE	Two-week Bias	Monthly RMSE	Monthly Bias	Annual RMSE	Annual Bias
427	LDEQ0337	10	2.5	-0.5	2.5	-0.5	1.1	-0.5	1.1	0.6
432	LDEQ0339	11	2.9	-0.1	2.9	-0.1	1.4	-0.1	0.9	0.4
436	LDEQ1199	12	3.4	2.6	3.4	2.6	1.7	2.6	1.7	2.3
438	LDEQ0934	11	2.4	-0.8	2.4	-0.8	1.1	-0.8	0.9	-0.2
439	LDEQ0960	11	3.5	-2.7	3.5	-2.7	1.4	-2.4	1.4	-2.7
454	LDEQ0113	12	1.8	-0.2	1.8	-0.2	0.7	0.0	0.1	-0.2
459	LDEQ0936	0	-	-	-	-	-	-	-	-
460	LDEQ0338	12	2.2	0.6	2.2	0.6	1.0	0.8	0.3	0.6
475	LDEQ0344	12	2.7	-1.8	2.7	-1.8	1.0	-1.5	0.9	-1.8
494	LDEQ0952	11	3.4	-2.9	3.4	-2.9	1.4	-2.6	1.5	-2.9
498	LDEQ0928	15	3.8	-1.6	3.8	-1.6	1.9	-1.3	1.0	-1.0
499	LDEQ0941	12	1.4	-0.2	1.4	-0.2	0.7	-0.2	0.6	0.2
510	LDEQ0949	11	5.0	0.7	5.0	0.7	2.4	0.7	3.1	2.4
512	LDEQ0937	12	1.8	-0.2	1.8	-0.2	0.8	-0.1	0.1	-0.2
518	LDEQ0896	11	1.9	-0.3	1.9	-0.3	0.9	-0.3	0.8	0.2
522	LDEQ0039	49	1.6	-0.8	1.6	-0.8	1.5	-0.9	0.9	-0.8
533	LDEQ0961	11	5.6	0.1	5.6	0.1	2.7	0.1	3.4	2.0
536	LDEQ3586	11	1.7	-0.5	1.7	-0.5	0.8	-0.5	0.7	-0.1
538	LDEQ1200	11	5.9	-5.0	5.9	-5.0	2.8	-5.0	3.2	-4.2
559	LDEQ1201	11	1.5	-0.6	1.5	-0.6	0.7	-0.6	0.7	-0.2
561	LDEQ0948	12	3.7	-2.1	3.7	-2.1	1.9	-2.1	1.5	-1.2
563	LDEQ1203	11	1.8	-1.0	1.8	-1.0	0.8	-1.0	0.6	-0.7
569	LDEQ0933	15	4.1	-2.7	4.1	-2.7	2.0	-2.3	1.7	-2.4
585	LDEQ0950	12	3.7	-1.3	3.7	-1.3	1.9	-1.3	1.7	-0.1
586	LDEQ0955	12	2.3	-1.3	2.3	-1.3	1.0	-1.2	0.6	-1.3
593	LDEQ1202	11	1.4	-0.7	1.4	-0.7	0.6	-0.7	0.5	-0.5
598	LDEQ0962	11	5.6	-1.3	5.6	-1.3	2.7	-1.3	3.0	0.6

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ICM Compartment	Station	# Observations	Daily RMSE	Daily Bias	Two-week RMSE	Two-week Bias	Monthly RMSE	Monthly Bias	Annual RMSE	Annual Bias
648	LDEQ0692	12	3.5	-2.3	3.5	-2.3	1.4	-1.8	1.1	-2.3
649	LDEQ0957	12	5.1	-1.9	5.1	-1.9	2.6	-1.9	2.3	-0.3
658	LDEQ0685	15	3.8	-3.0	3.8	-3.0	1.8	-2.6	1.9	-2.4
678	LDEQ0683	12	4.2	-0.9	4.2	-0.9	2.1	-0.9	3.0	1.1
692	LDEQ0691	12	3.6	-2.6	3.6	-2.6	1.3	-2.0	1.3	-2.6
718	LDEQ0693	12	5.0	-0.8	5.0	-0.8	2.5	-0.8	3.7	1.7
719	LDEQ1204	0	-	-	-	-	-	-	-	-
724	LDEQ0316	12	4.6	-0.8	4.6	-0.8	2.3	-0.8	3.3	1.4
728	LDEQ2116	12	4.1	-2.8	4.1	-2.8	1.8	-2.6	1.4	-2.8
729	LDEQ0696	12	5.1	-0.7	5.1	-0.7	2.5	-0.7	3.6	1.7
732	LDEQ0679	12	3.7	-2.4	3.7	-2.4	1.6	-2.2	1.2	-2.4
747	LDEQ0678	12	3.8	-2.3	3.8	-2.3	1.7	-2.0	1.1	-2.3
748	LDEQ0003	50	3.4	-1.8	3.4	-1.8	3.3	-1.9	1.9	-1.8
750	LDEQ0660	12	3.7	-1.8	3.7	-1.8	1.4	-1.2	0.9	-1.8
752	LDEQ0697	0	-	-	-	-	-	-	-	-
773	LDEQ0655	12	3.4	-2.3	3.4	-2.3	1.5	-2.1	1.1	-2.3
782	LDEQ0695	12	2.7	-0.5	2.7	-0.5	0.9	0.0	0.2	-0.5
784	LDEQ0098	12	3.1	-1.2	3.1	-1.2	1.4	-1.1	0.6	-1.2
802	LDEQ0822	12	6.3	-3.8	6.3	-3.8	3.2	-3.8	3.5	-1.5
815	LDEQ0823	11	8.1	-2.6	8.1	-2.6	3.9	-2.6	4.6	0.4
816	LDEQ2115	12	2.7	-0.5	2.7	-0.5	1.1	-0.1	0.3	-0.5
826	LDEQ0657	12	2.6	-1.5	2.6	-1.5	1.0	-1.2	0.8	-1.5
829	LDEQ0851	12	2.8	-0.4	2.8	-0.4	1.4	-0.4	1.3	0.5
833	LDEQ0026	49	4.7	-1.6	4.7	-1.6	4.3	-1.2	1.7	-1.5
842	LDEQ2752	12	4.0	-0.6	4.0	-0.6	2.0	-1.0	2.1	1.2
846	LDEQ0827	12	3.6	0.3	3.6	0.3	1.8	0.2	1.8	1.6
849	LDEQ0828	12	3.0	1.3	3.0	1.3	1.4	1.1	1.5	1.9

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ICM Compartment	Station	# Observations	Daily RMSE	Daily Bias	Two-week RMSE	Two-week Bias	Monthly RMSE	Monthly Bias	Annual RMSE	Annual Bias
850	LDEQ0029	12	4.4	-2.9	4.4	-2.9	1.7	-2.3	1.5	-2.9
852	LDEQ0826	12	3.6	-0.4	3.6	-0.4	1.8	-0.4	1.6	0.9
855	LDEQ2114	12	6.5	-3.7	6.5	-3.7	2.7	-3.0	1.8	-3.7
868	LDEQ1168	15	3.7	-2.3	3.7	-2.3	1.9	-2.1	1.4	-1.7
869	LDEQ1169	15	2.5	0.4	2.5	0.4	1.3	0.5	1.1	1.1
872	LDEQ0091	15	4.2	-3.0	4.2	-3.0	2.1	-2.8	2.0	-2.8
899	LDEQ1157	15	2.6	0.4	2.6	0.4	1.4	0.5	1.3	1.2
908	LDEQ0852	9	5.5	-1.2	5.5	-1.2	2.4	-1.2	2.6	0.0
916	LDEQ1158	12	5.1	-3.4	5.1	-3.4	2.0	-2.9	1.7	-3.4
926	LDEQ1159	12	5.3	-4.0	5.3	-4.0	2.2	-3.5	2.0	-4.0
937	LDEQ1170	12	6.3	-3.5	6.3	-3.5	2.7	-3.0	1.8	-3.5

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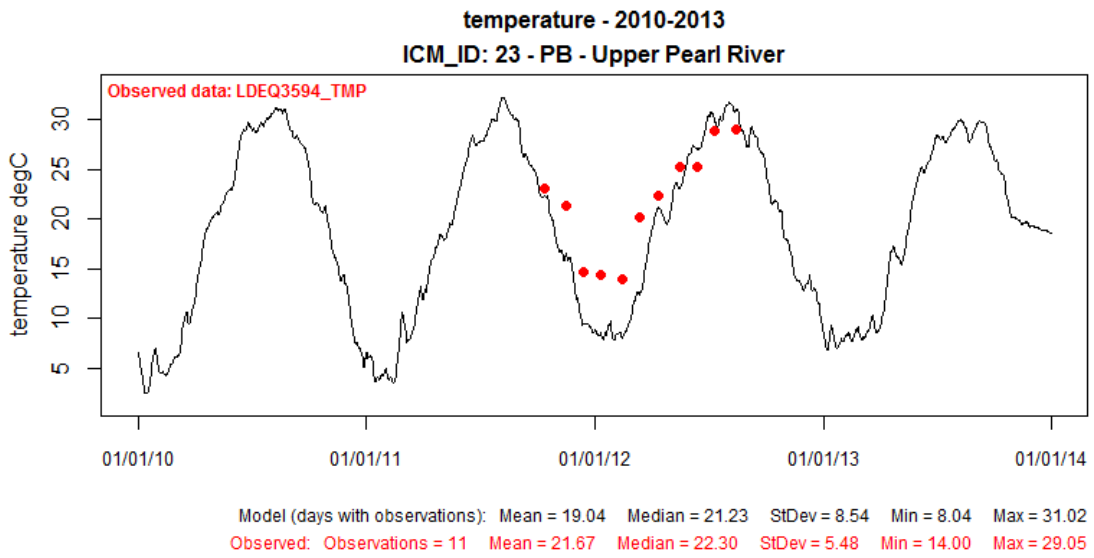

Figure 1: Modeled Temperature (degrees C) at ICM Compartment 23 (solid black line) Compared to Observed Data at LDEQ3594 for Calibration Period, 2010-2013.

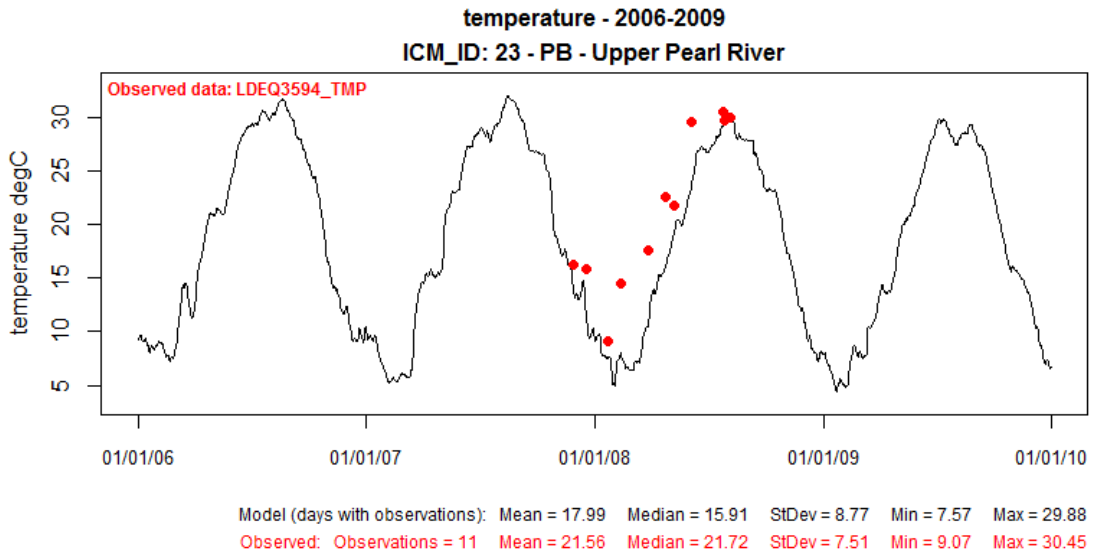

Figure 2: Modeled Temperature (degrees C) at ICM Compartment 23 (solid black line) Compared to Observed Data at LDEQ3594 for Validation Period, 2006-2009.

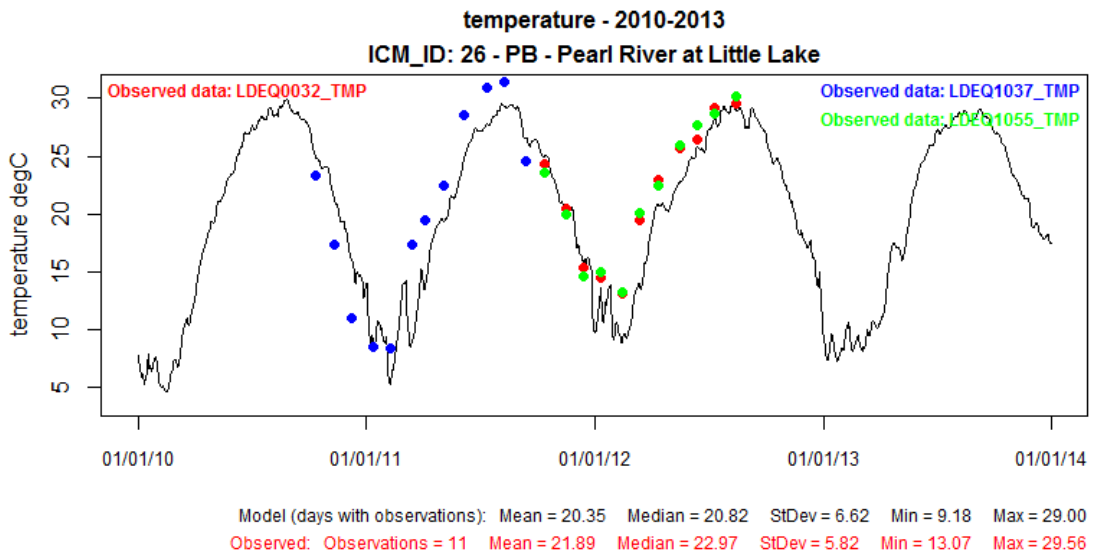

Figure 3: Modeled Temperature (degrees C) at ICM Compartment 26 (solid black line) Compared to Observed Data at LDEQ0032 for Calibration Period, 2010-2013.

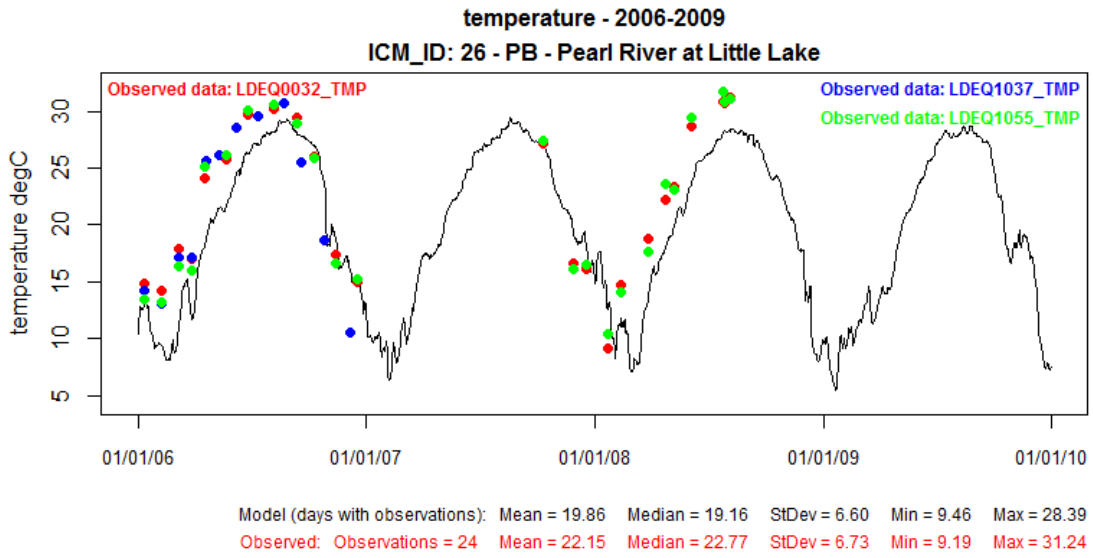

Figure 4: Modeled Temperature (degrees C) at ICM Compartment 26 (solid black line) Compared to Observed Data at LDEQ0032 for Validation Period, 2006-2009.

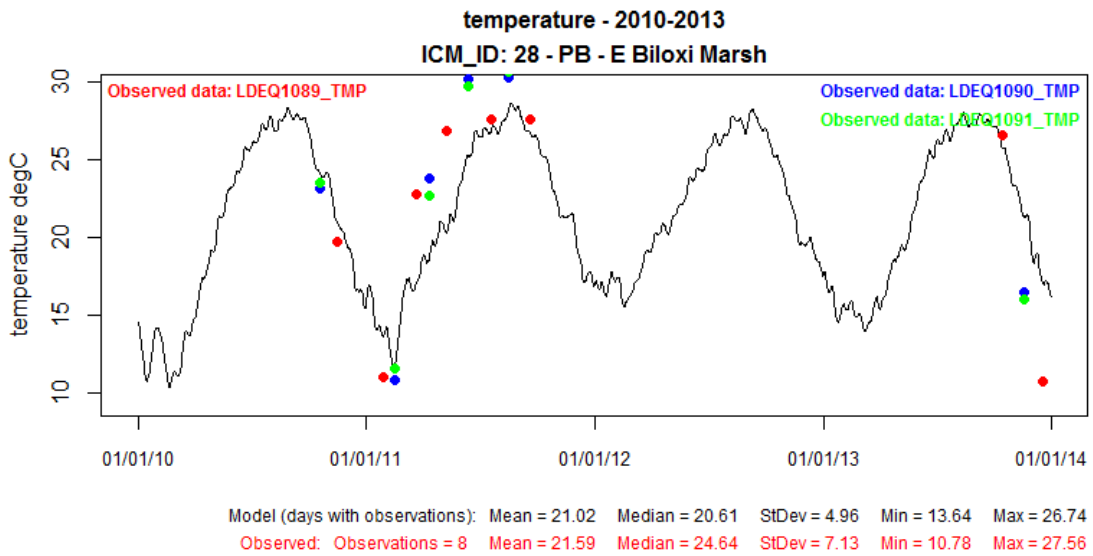

Figure 5: Modeled Temperature (degrees C) at ICM Compartment 28 (solid black line) Compared to Observed Data at LDEQ1089 for Calibration Period, 2010-2013.

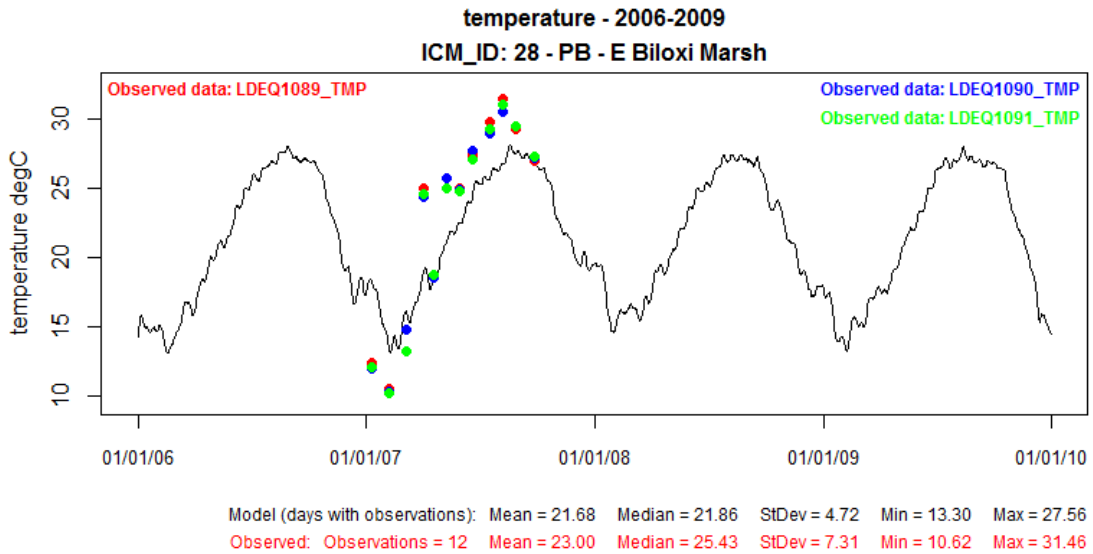

Figure 6: Modeled Temperature (degrees C) at ICM Compartment 28 (solid black line) Compared to Observed Data at LDEQ1089 for Validation Period, 2006-2009.

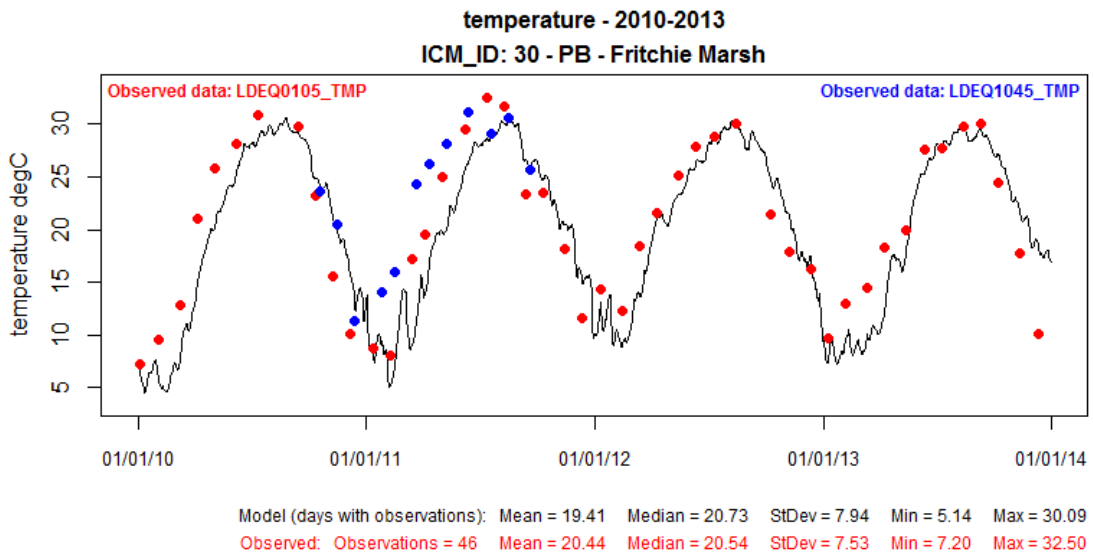

Figure 7: Modeled Temperature (degrees C) at ICM Compartment 30 (solid black line) Compared to Observed Data at LDEQ0105 for Calibration Period, 2010-2013.

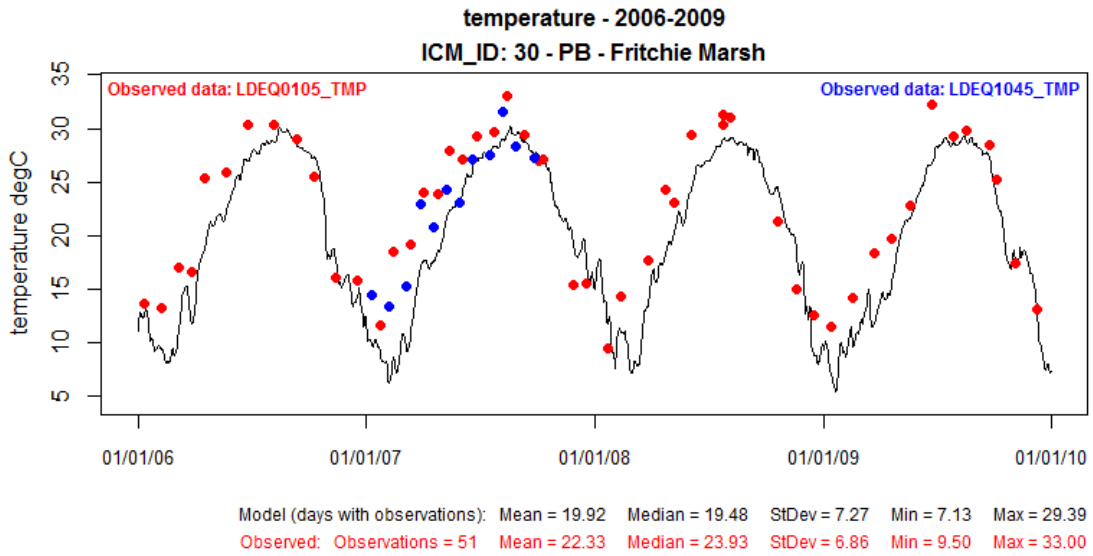

Figure 8: Modeled Temperature (degrees C) at ICM Compartment 30 (solid black line) Compared to Observed Data at LDEQ0105 for Validation Period, 2006-2009.

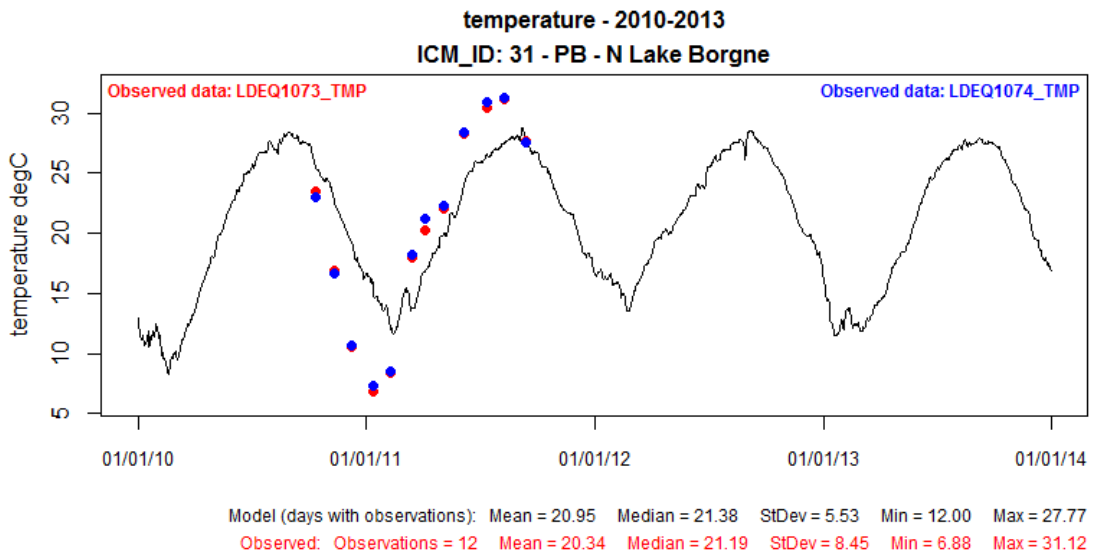

Figure 9: Modeled Temperature (degrees C) at ICM Compartment 31 (solid black line) Compared to Observed Data at LDEQ1073 for Calibration Period, 2010-2013.

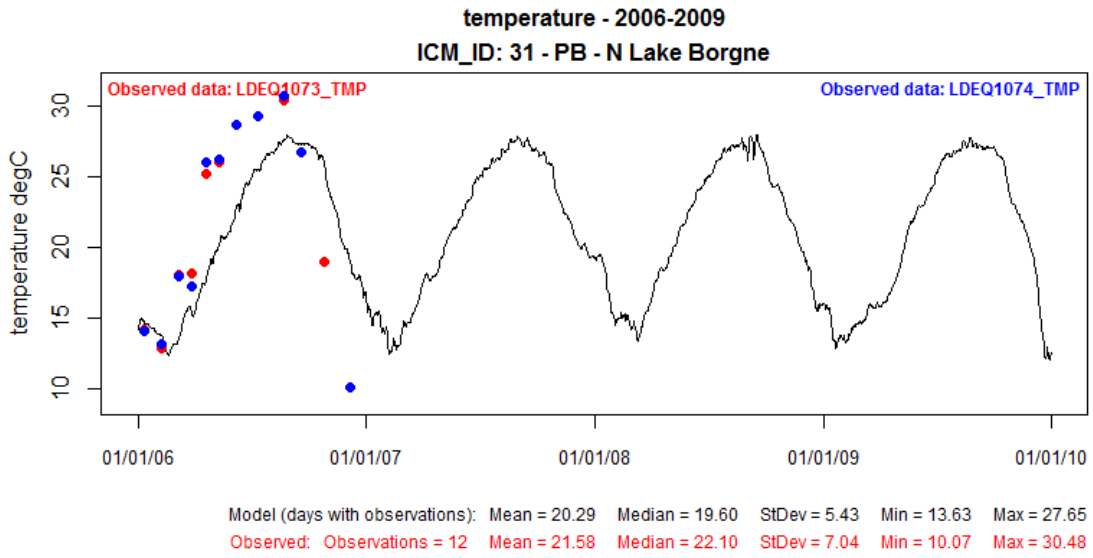

Figure 10: Modeled Temperature (degrees C) at ICM Compartment 31 (solid black line) Compared to Observed Data at LDEQ1073 for Validation Period, 2006-2009.

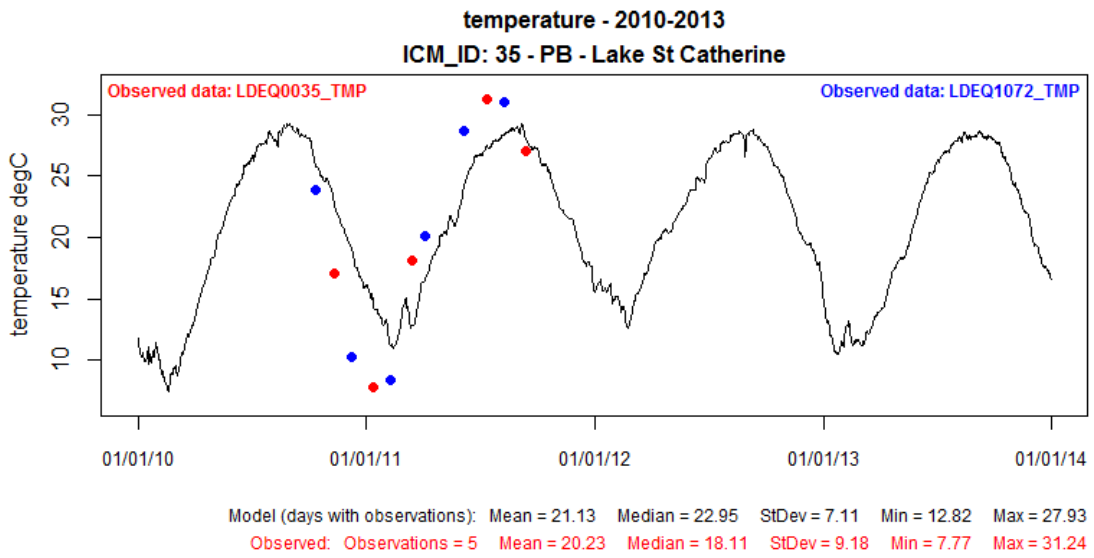

Figure 11: Modeled Temperature (degrees C) at ICM Compartment 35 (solid black line) Compared to Observed Data at LDEQ0035 for Calibration Period, 2010-2013.

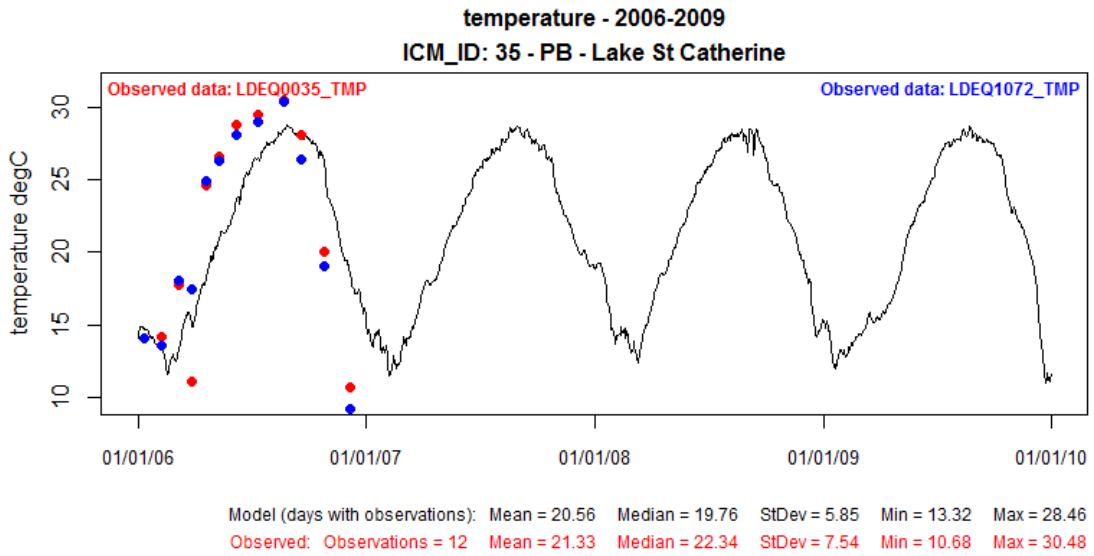

Figure 12: Modeled Temperature (degrees C) at ICM Compartment 35 (solid black line) Compared to Observed Data at LDEQ0035 for Validation Period, 2006-2009.

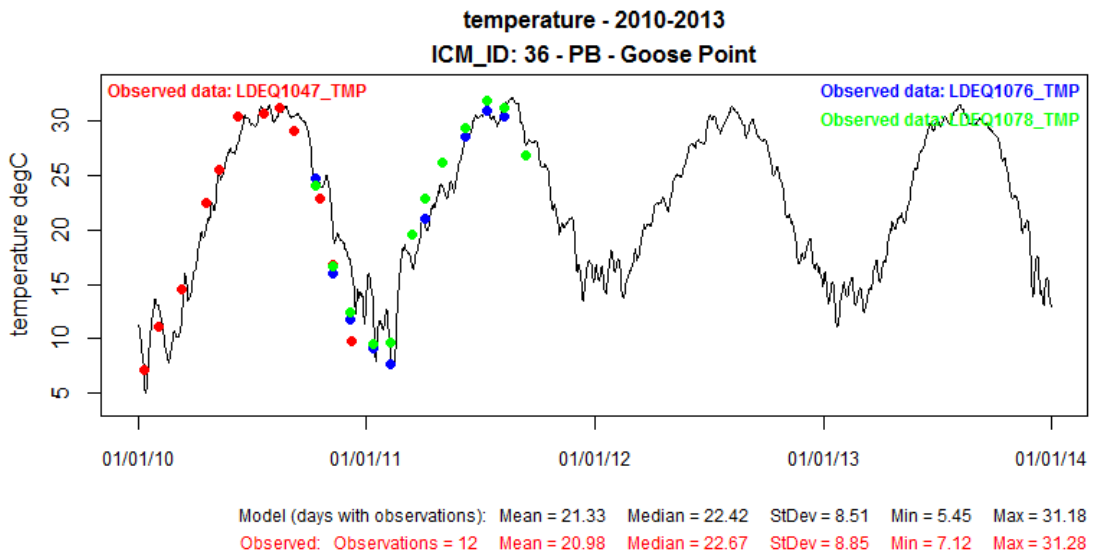

Figure 13: Modeled Temperature (degrees C) at ICM Compartment 36 (solid black line) Compared to Observed Data at LDEQ1047 for Calibration Period, 2010-2013.

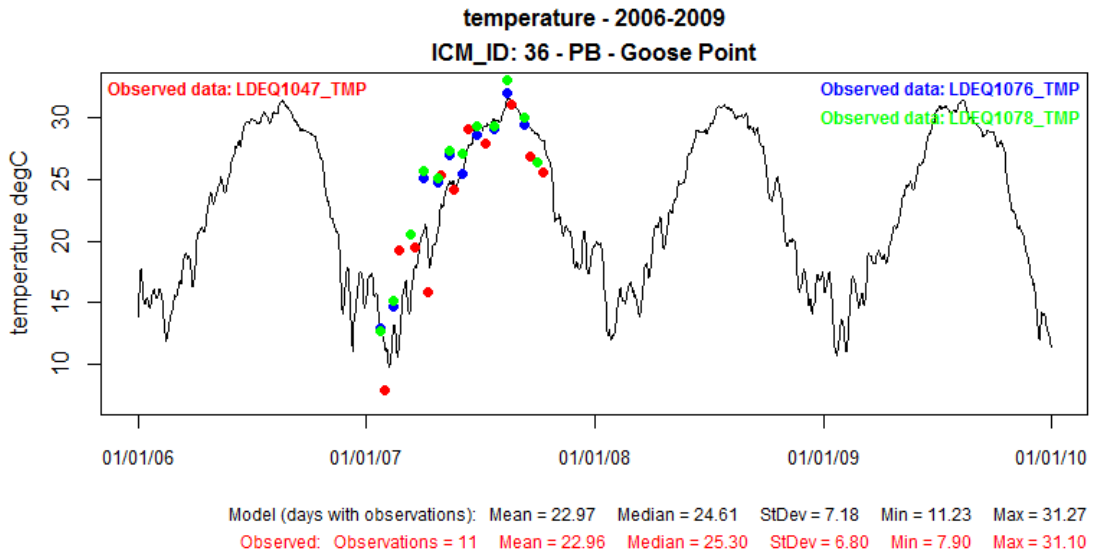

Figure 14: Modeled Temperature (degrees C) at ICM Compartment 36 (solid black line) Compared to Observed Data at LDEQ1047 for Validation Period, 2006-2009.

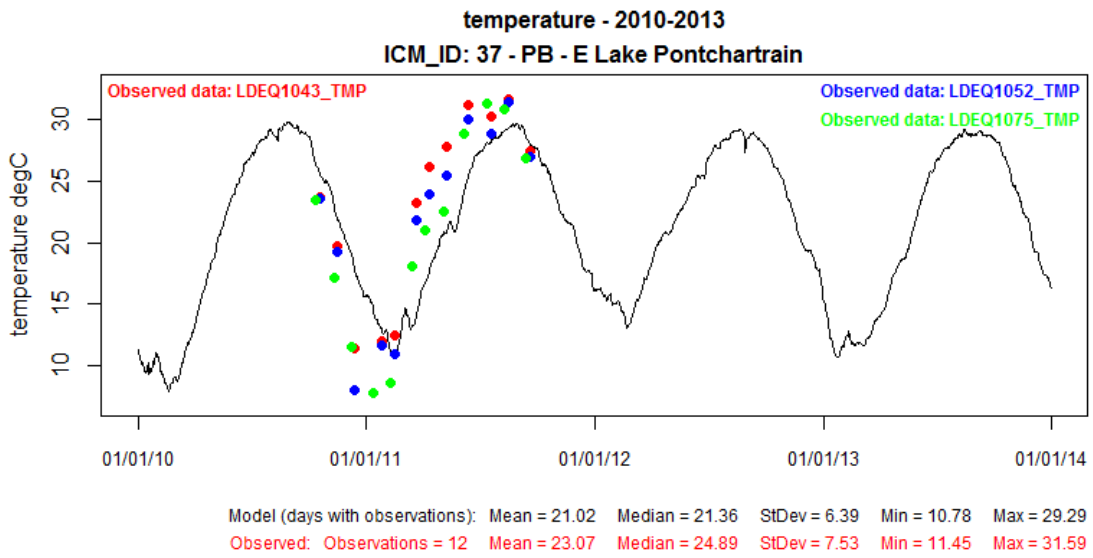

Figure 15: Modeled Temperature (degrees C) at ICM Compartment 37 (solid black line) Compared to Observed Data at LDEQ1043 for Calibration Period, 2010-2013.

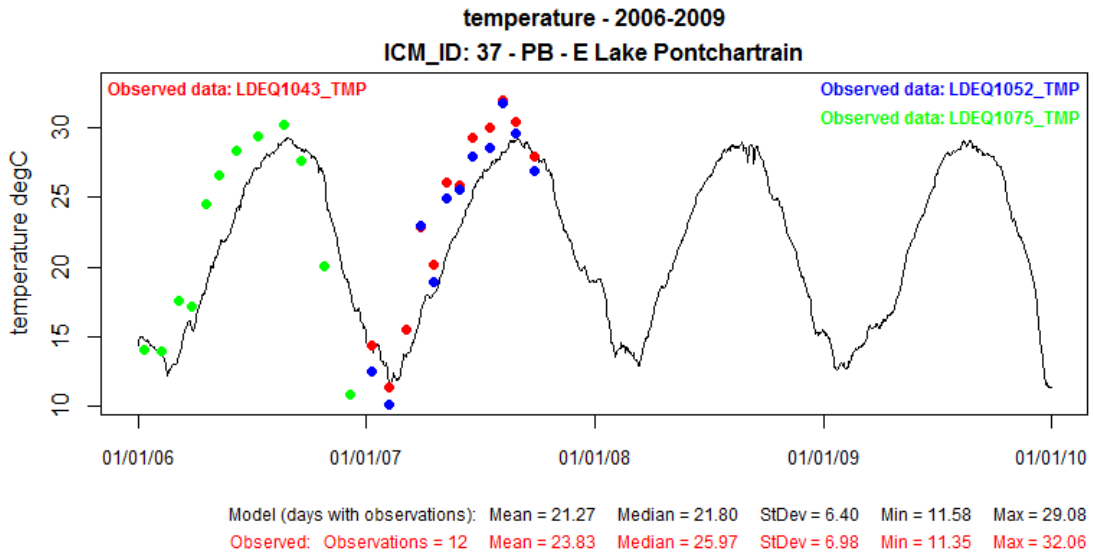

Figure 16: Modeled Temperature (degrees C) at ICM Compartment 37 (solid black line) Compared to Observed Data at LDEQ1043 for Validation Period, 2006-2009.

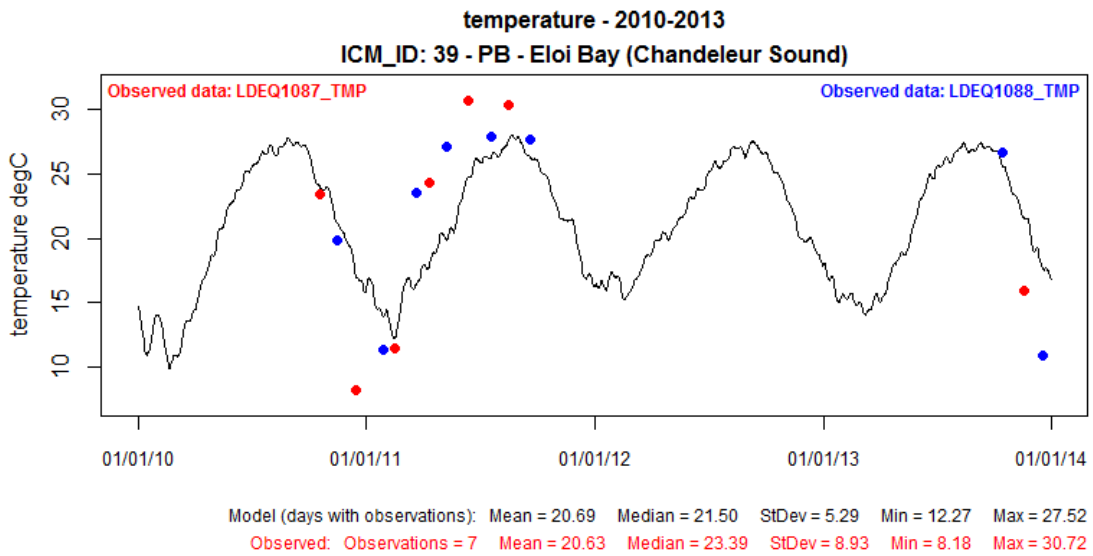

Figure 17: Modeled Temperature (degrees C) at ICM Compartment 39 (solid black line) Compared to Observed Data at LDEQ1087 for Calibration Period, 2010-2013.

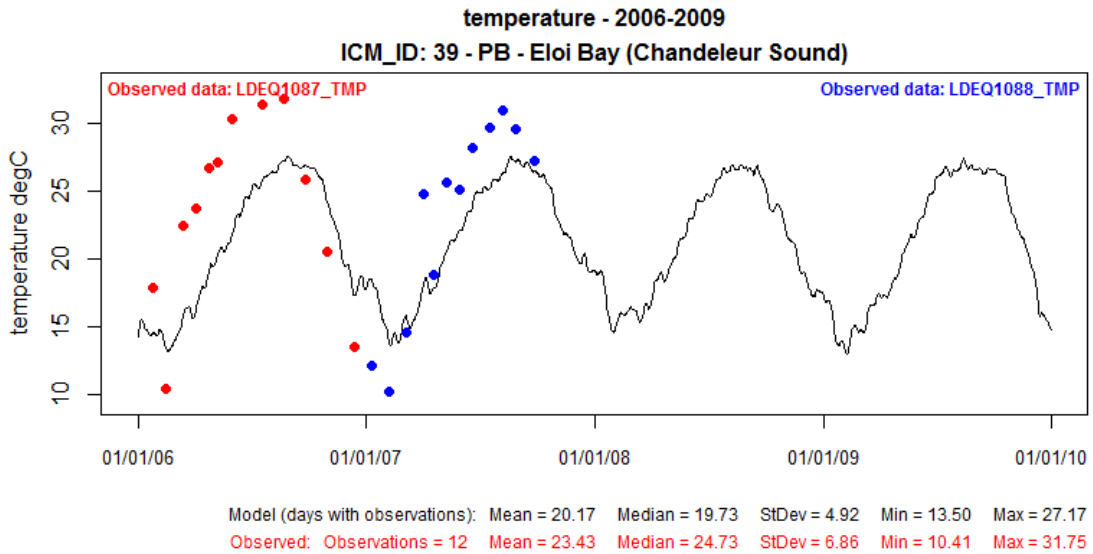

Figure 18: Modeled Temperature (degrees C) at ICM Compartment 39 (solid black line) Compared to Observed Data at LDEQ1087 for Validation Period, 2006-2009.

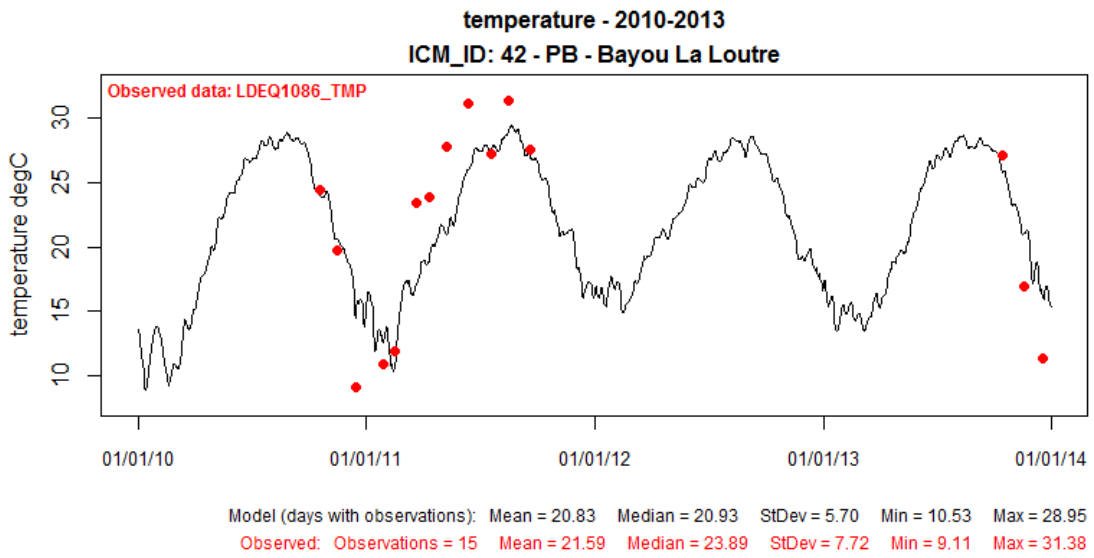

Figure 19: Modeled Temperature (degrees C) at ICM Compartment 42 (solid black line) Compared to Observed Data at LDEQ1086 for Calibration Period, 2010-2013.

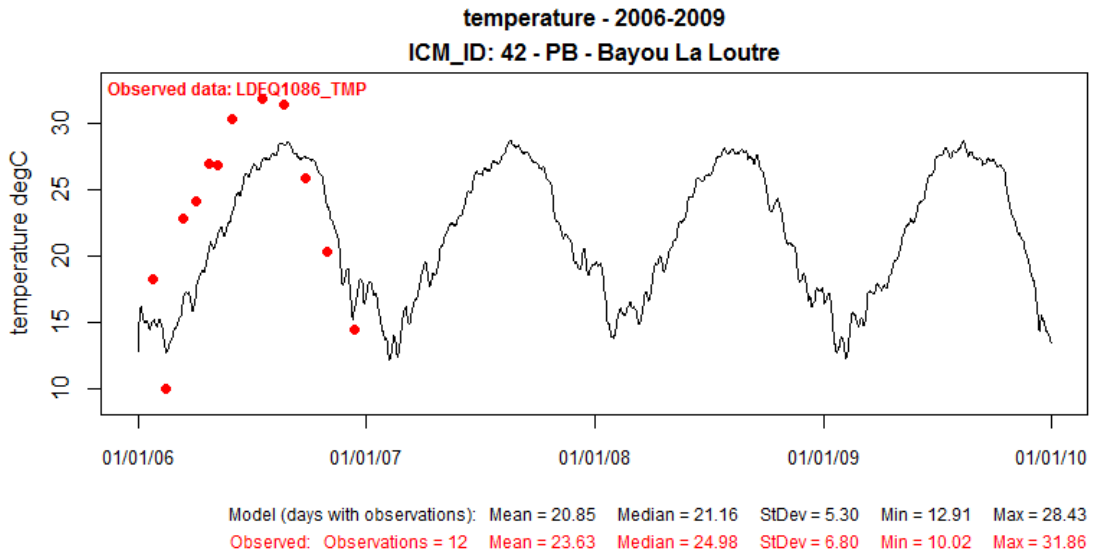

Figure 20: Modeled Temperature (degrees C) at ICM Compartment 42 (solid black line) Compared to Observed Data at LDEQ1086 for Validation Period, 2006-2009.

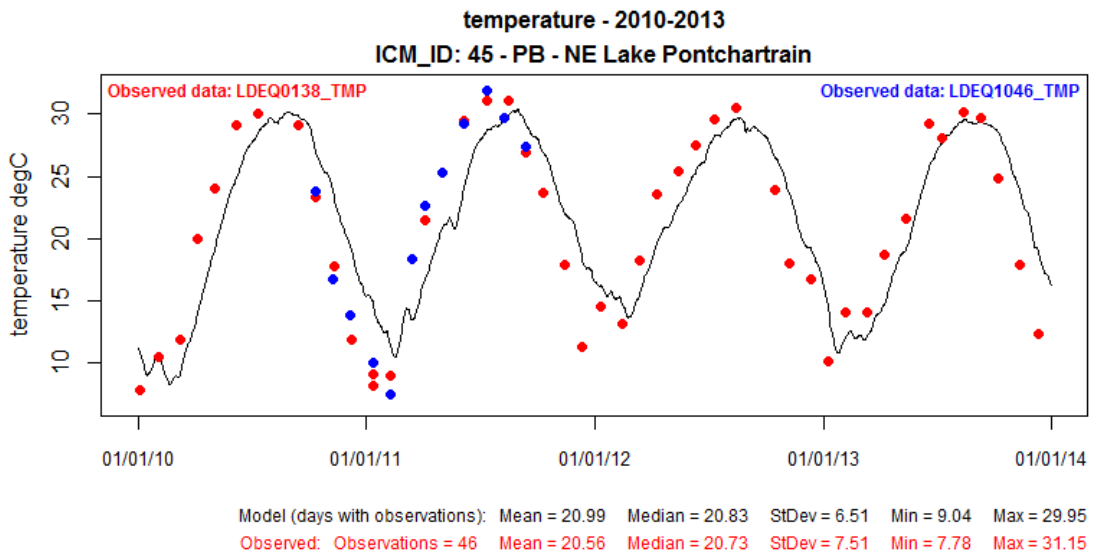

Figure 21: Modeled Temperature (degrees C) at ICM Compartment 45 (solid black line) Compared to Observed Data at LDEQ0138 for Calibration Period, 2010-2013.

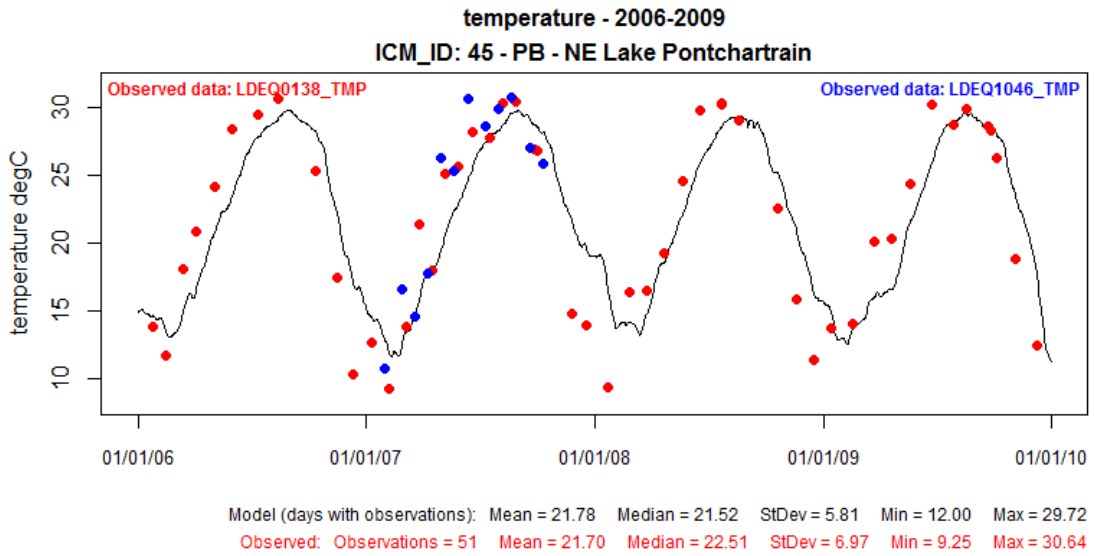

Figure 22: Modeled Temperature (degrees C) at ICM Compartment 45 (solid black line) Compared to Observed Data at LDEQ0138 for Validation Period, 2006-2009.

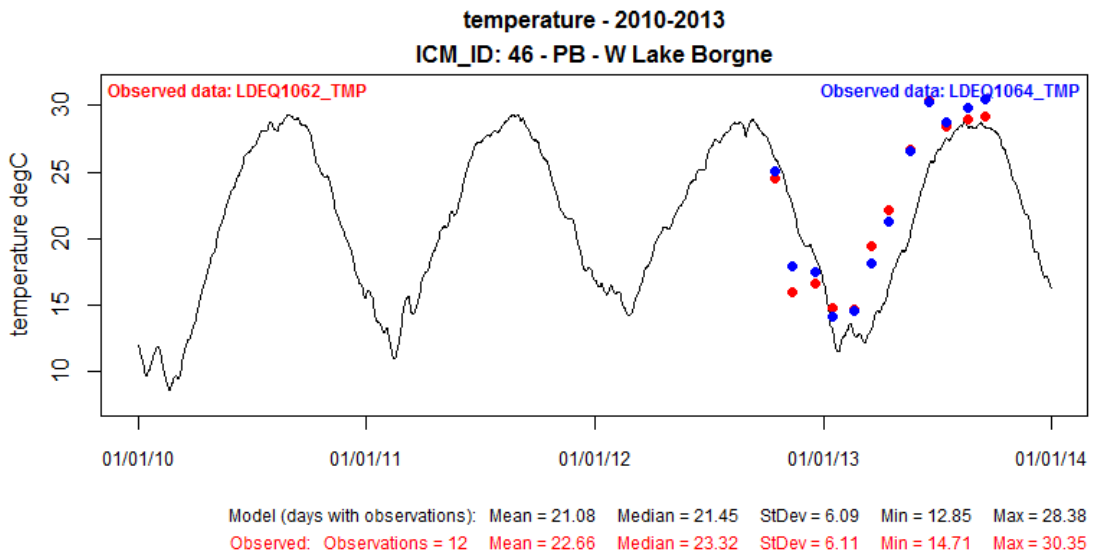

Figure 23: Modeled Temperature (degrees C) at ICM Compartment 46 (solid black line) Compared to Observed Data at LDEQ1062 for Calibration Period, 2010-2013.

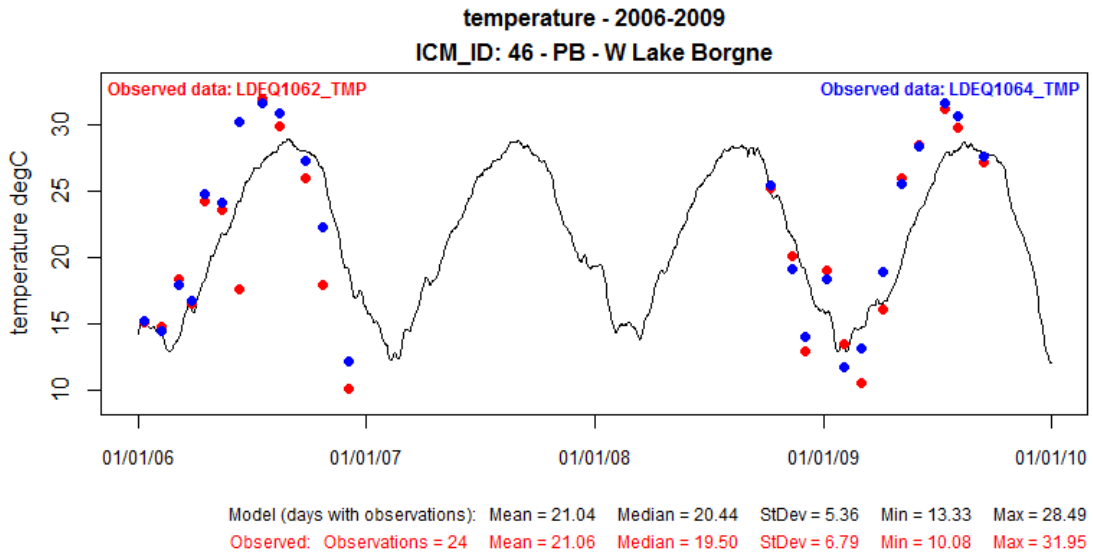

Figure 24: Modeled Temperature (degrees C) at ICM Compartment 46 (solid black line) Compared to Observed Data at LDEQ1062 for Validation Period, 2006-2009.

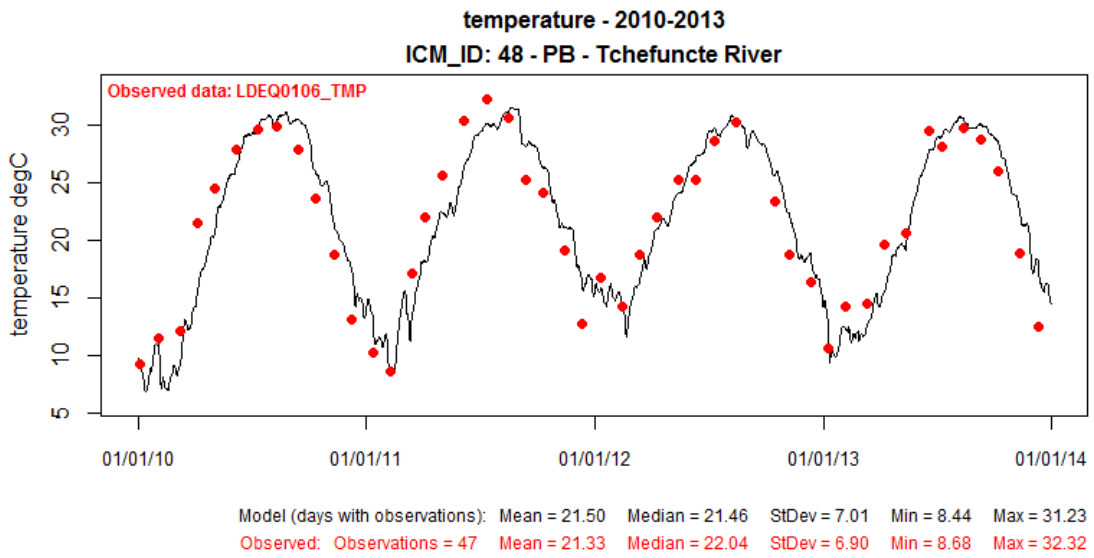

Figure 25: Modeled Temperature (degrees C) at ICM Compartment 48 (solid black line) Compared to Observed Data at LDEQ0106 for Calibration Period, 2010-2013.

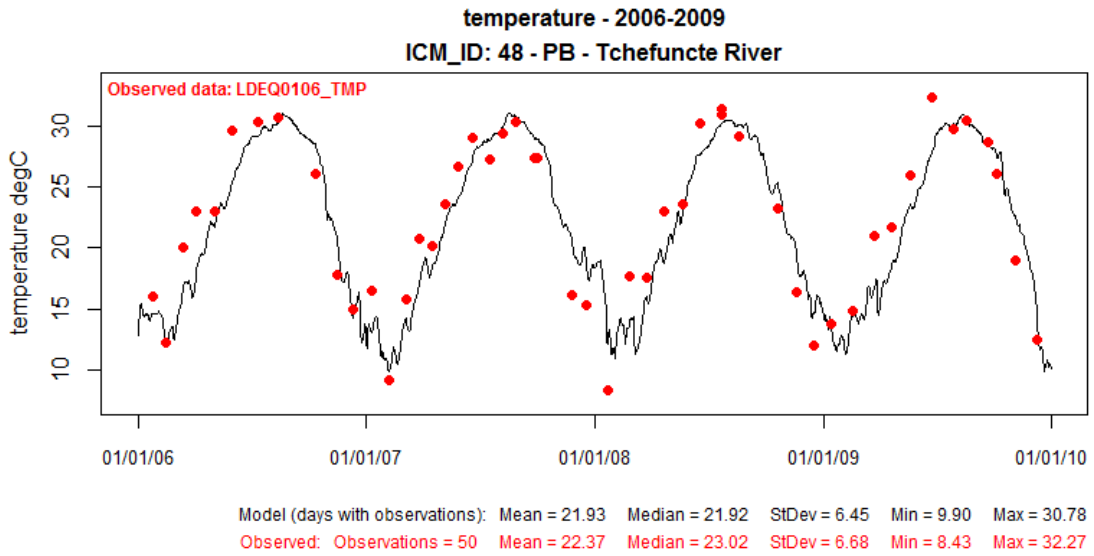

Figure 26: Modeled Temperature (degrees C) at ICM Compartment 48 (solid black line) Compared to Observed Data at LDEQ0106 for Validation Period, 2006-2009.

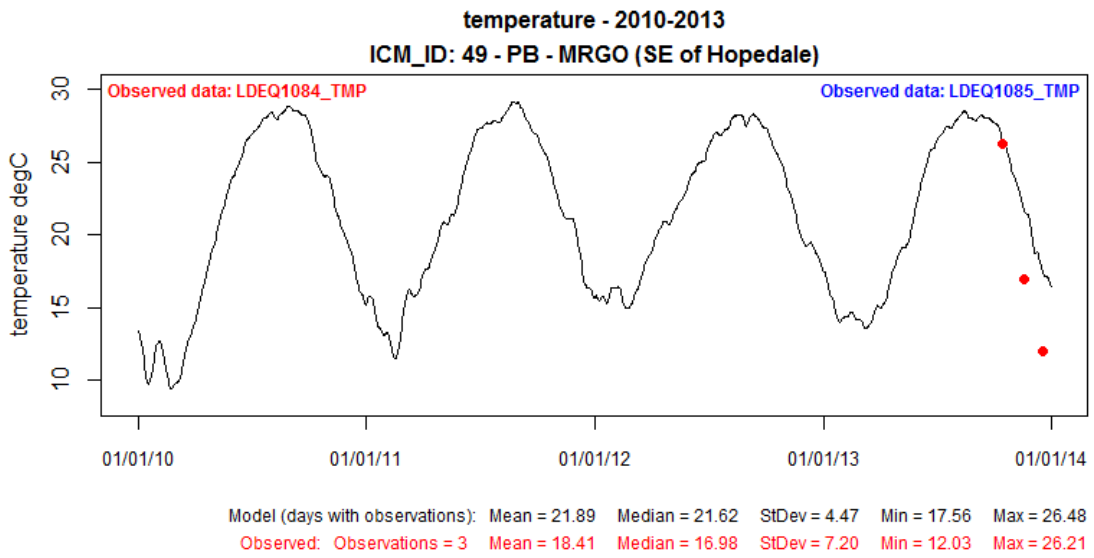

Figure 27: Modeled Temperature (degrees C) at ICM Compartment 49 (solid black line) Compared to Observed Data at LDEQ1084 for Calibration Period, 2010-2013.

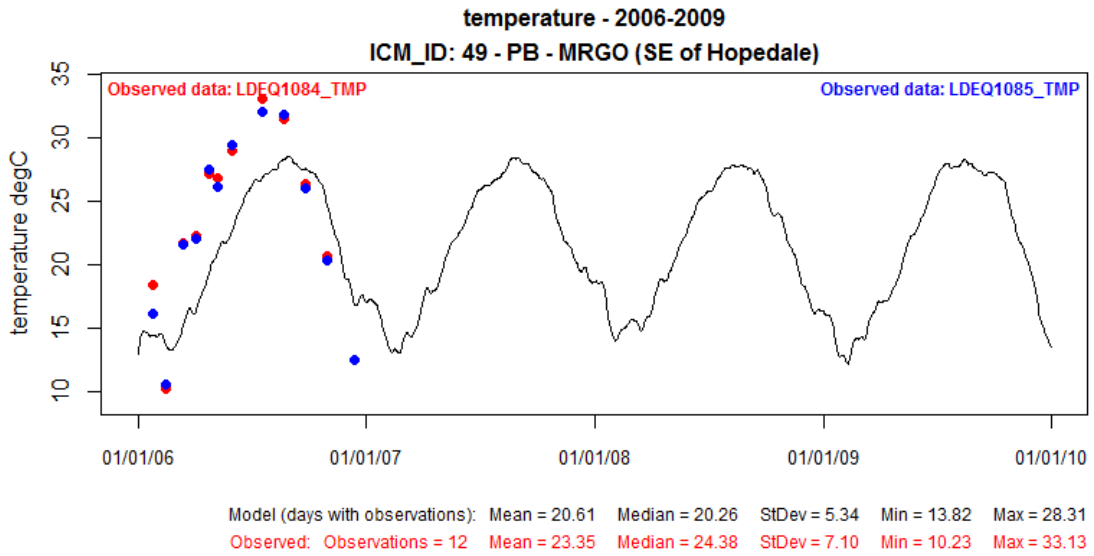

Figure 28: Modeled Temperature (degrees C) at ICM Compartment 49 (solid black line) Compared to Observed Data at LDEQ1084 for Validation Period, 2006-2009.

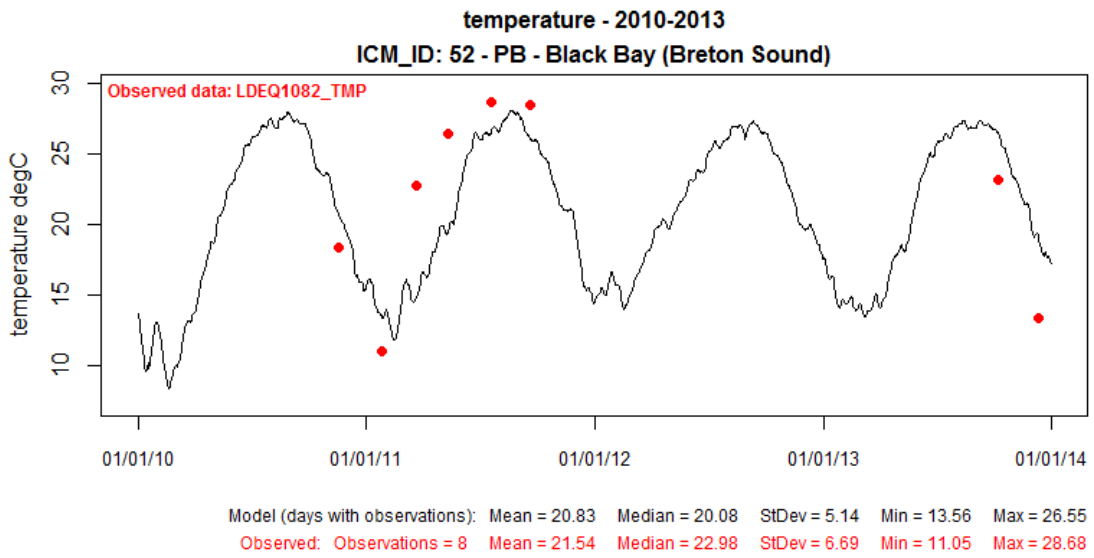

Figure 29: Modeled Temperature (degrees C) at ICM Compartment 52 (solid black line) Compared to Observed Data at LDEQ1082 for Calibration Period, 2010-2013.

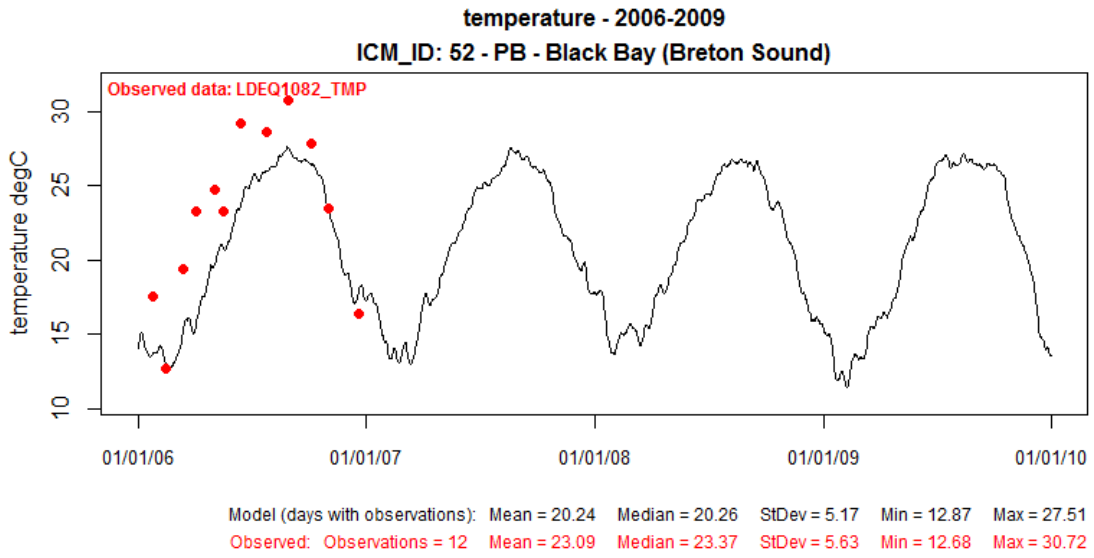

Figure 30: Modeled Temperature (degrees C) at ICM Compartment 52 (solid black line) Compared to Observed Data at LDEQ1082 for Validation Period, 2006-2009.

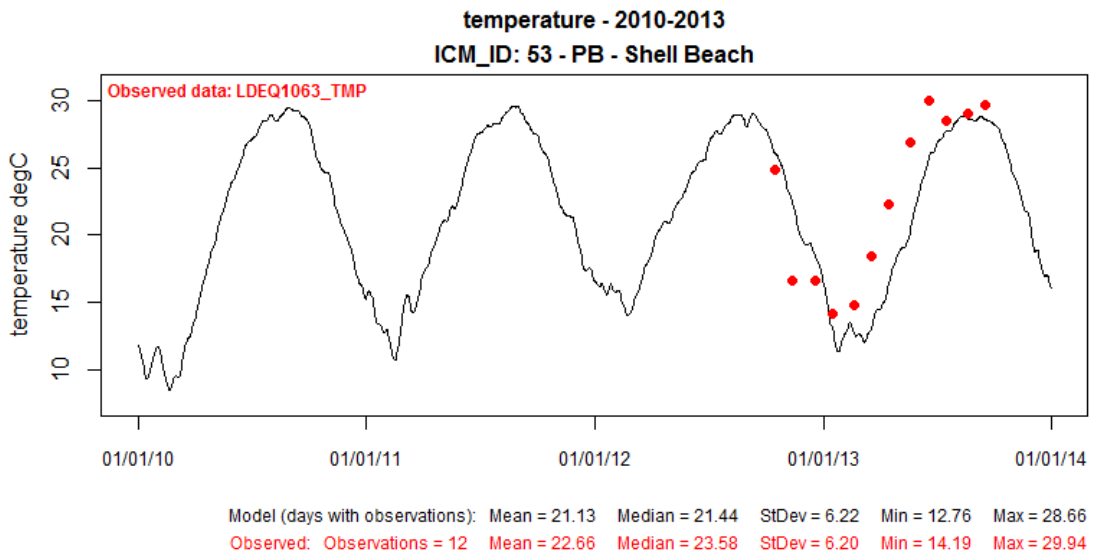

Figure 31: Modeled Temperature (degrees C) at ICM Compartment 53 (solid black line) Compared to Observed Data at LDEQ1063 for Calibration Period, 2010-2013.

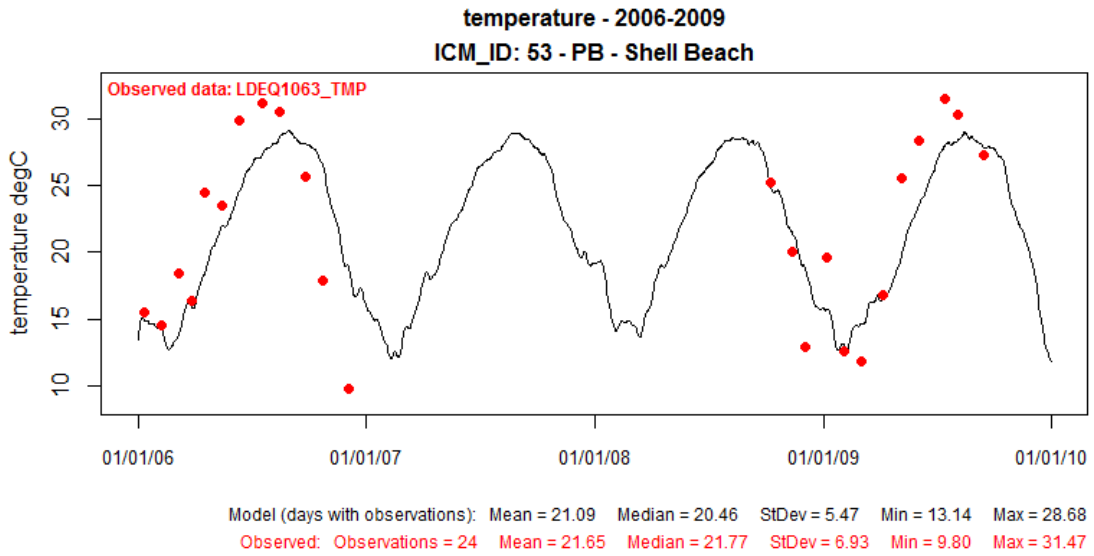

Figure 32: Modeled Temperature (degrees C) at ICM Compartment 53 (solid black line) Compared to Observed Data at LDEQ1063 for Validation Period, 2006-2009.

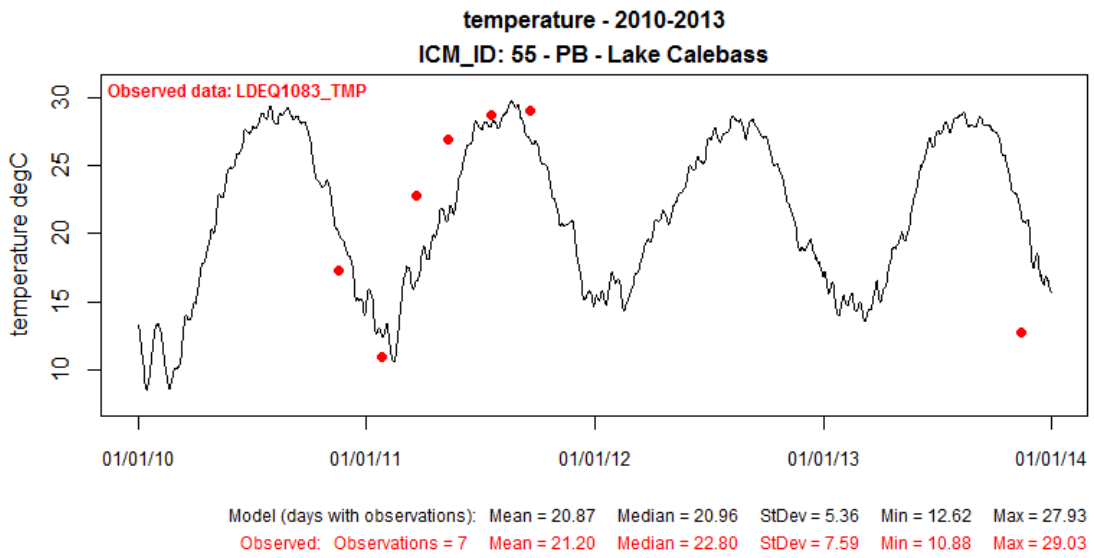

Figure 33: Modeled Temperature (degrees C) at ICM Compartment 55 (solid black line) Compared to Observed Data at LDEQ1083 for Calibration Period, 2010-2013.

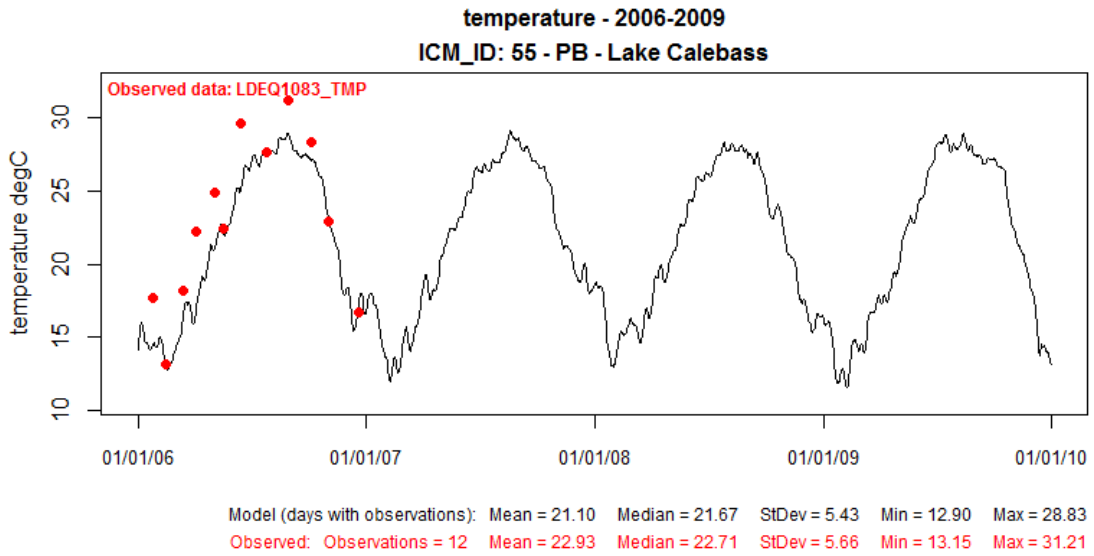

Figure 34: Modeled Temperature (degrees C) at ICM Compartment 55 (solid black line) Compared to Observed Data at LDEQ1083 for Validation Period, 2006-2009.

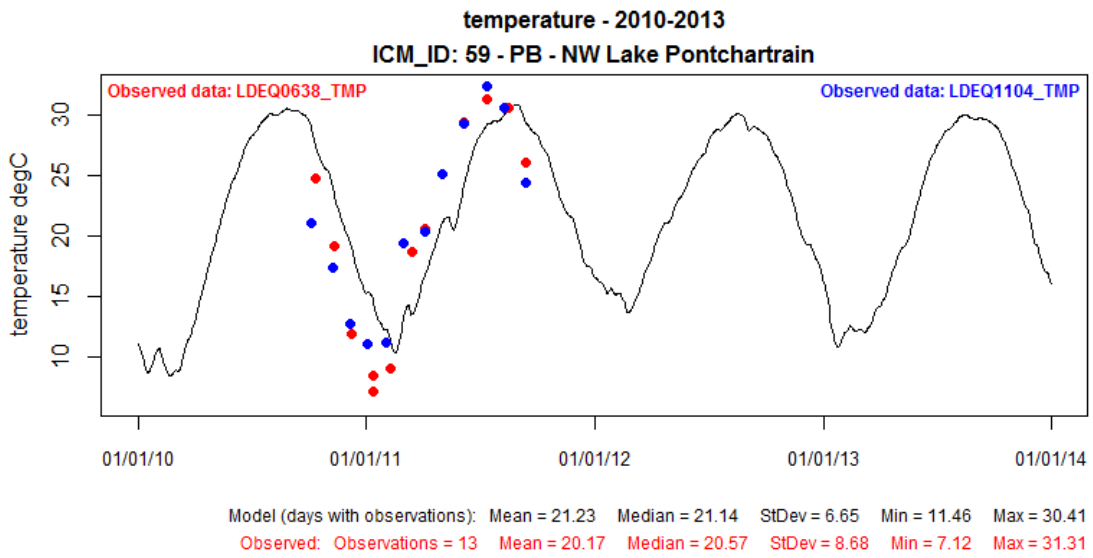

Figure 35: Modeled Temperature (degrees C) at ICM Compartment 59 (solid black line) Compared to Observed Data at LDEQ0638 for Calibration Period, 2010-2013.

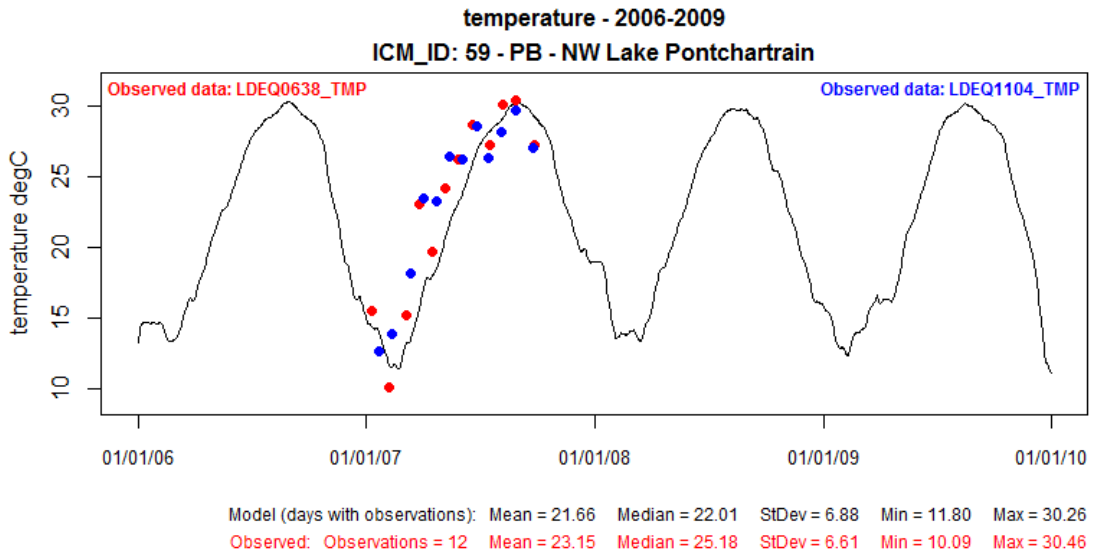

Figure 36: Modeled Temperature (degrees C) at ICM Compartment 59 (solid black line) Compared to Observed Data at LDEQ0638 for Validation Period, 2006-2009.

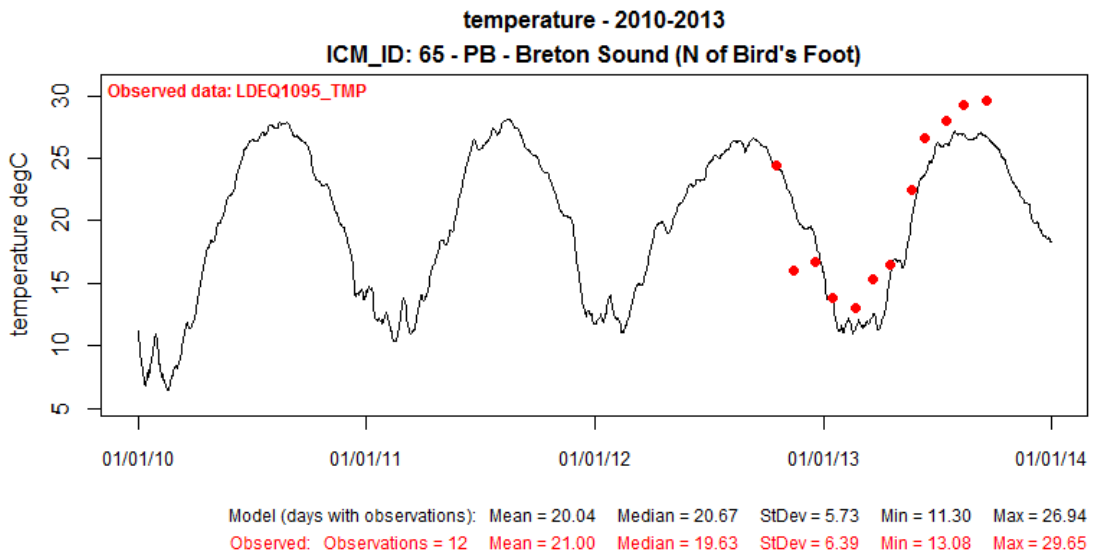

Figure 37: Modeled Temperature (degrees C) at ICM Compartment 65 (solid black line) Compared to Observed Data at LDEQ1095 for Calibration Period, 2010-2013.

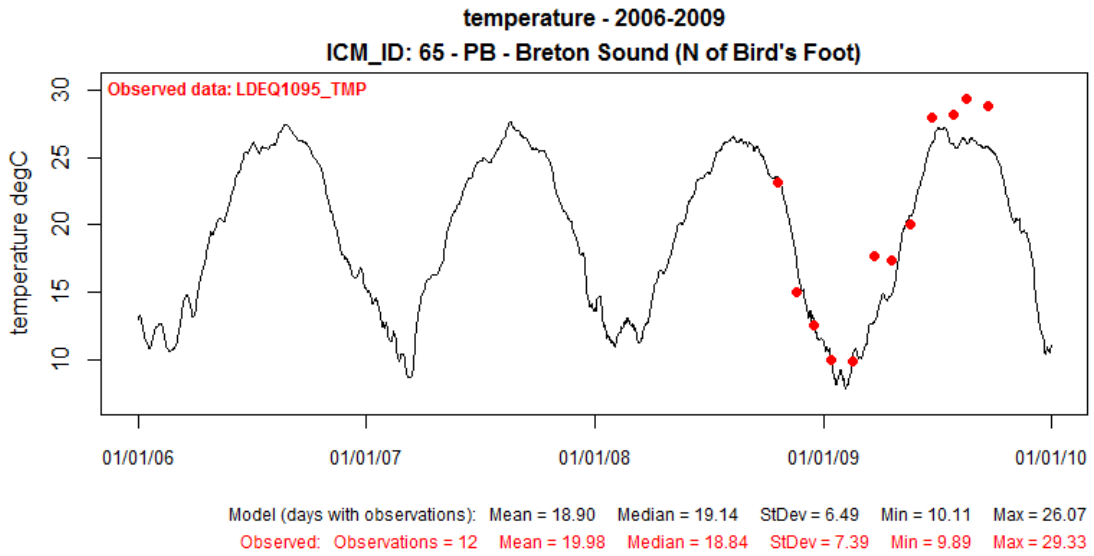

Figure 38: Modeled Temperature (degrees C) at ICM Compartment 65 (solid black line) Compared to Observed Data at LDEQ1095 for Validation Period, 2006-2009.

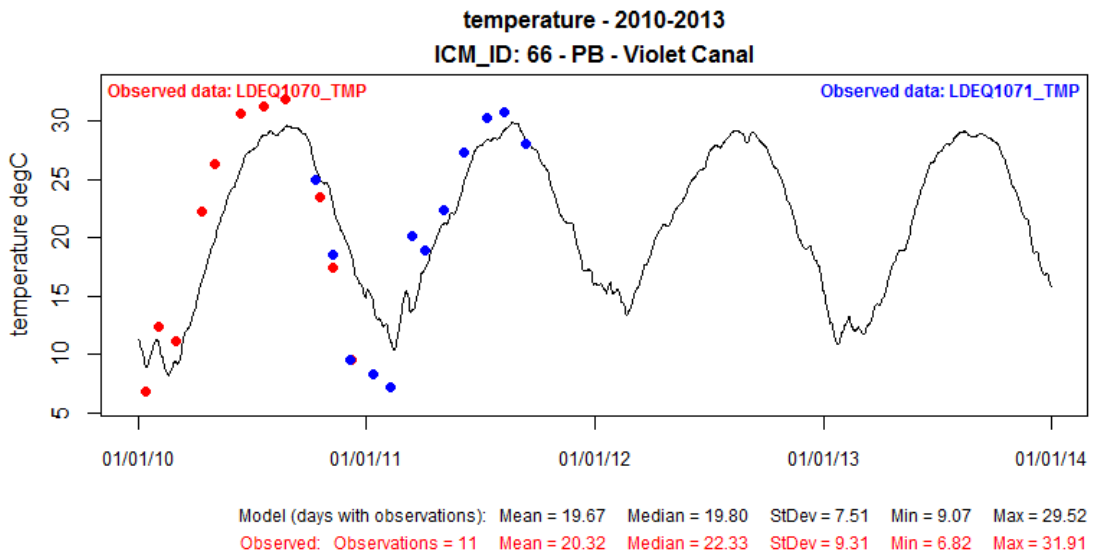

Figure 39: Modeled Temperature (degrees C) at ICM Compartment 66 (solid black line) Compared to Observed Data at LDEQ1070 for Calibration Period, 2010-2013.

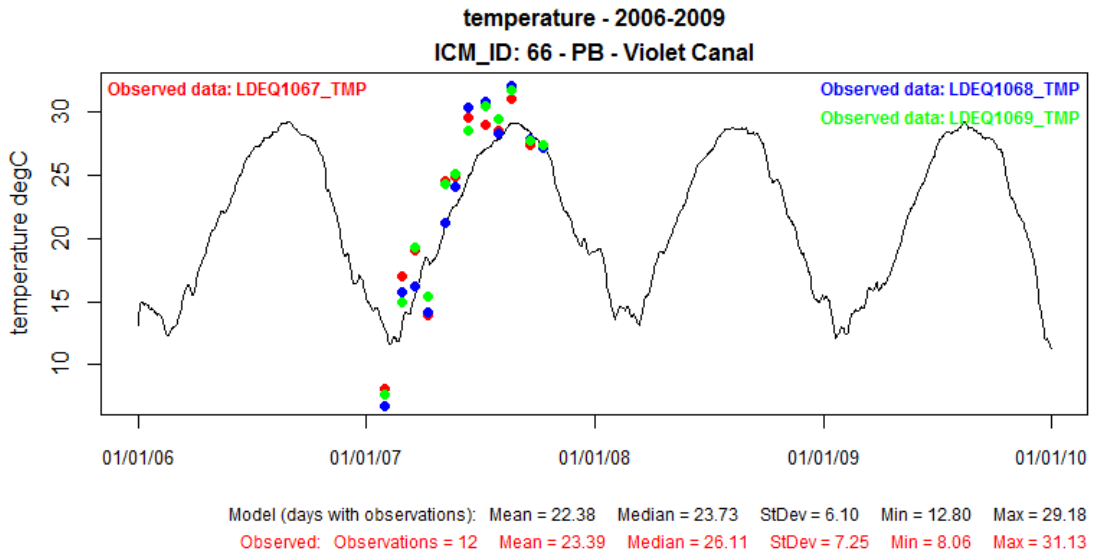

Figure 40: Modeled Temperature (degrees C) at ICM Compartment 66 (solid black line) Compared to Observed Data at LDEQ1067 for Validation Period, 2006-2009.

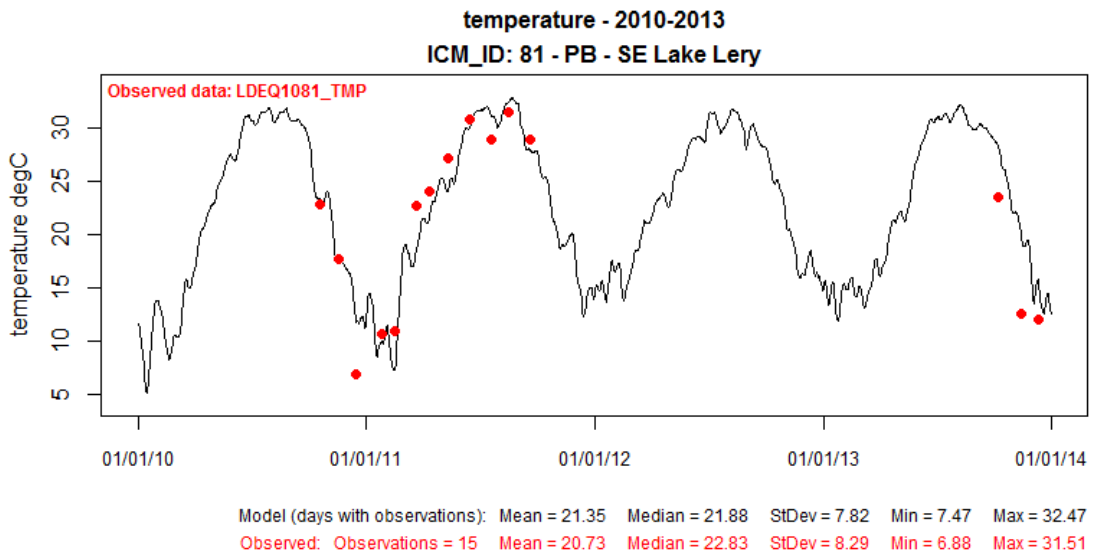

Figure 41: Modeled Temperature (degrees C) at ICM Compartment 81 (solid black line) Compared to Observed Data at LDEQ1081 for Calibration Period, 2010-2013.

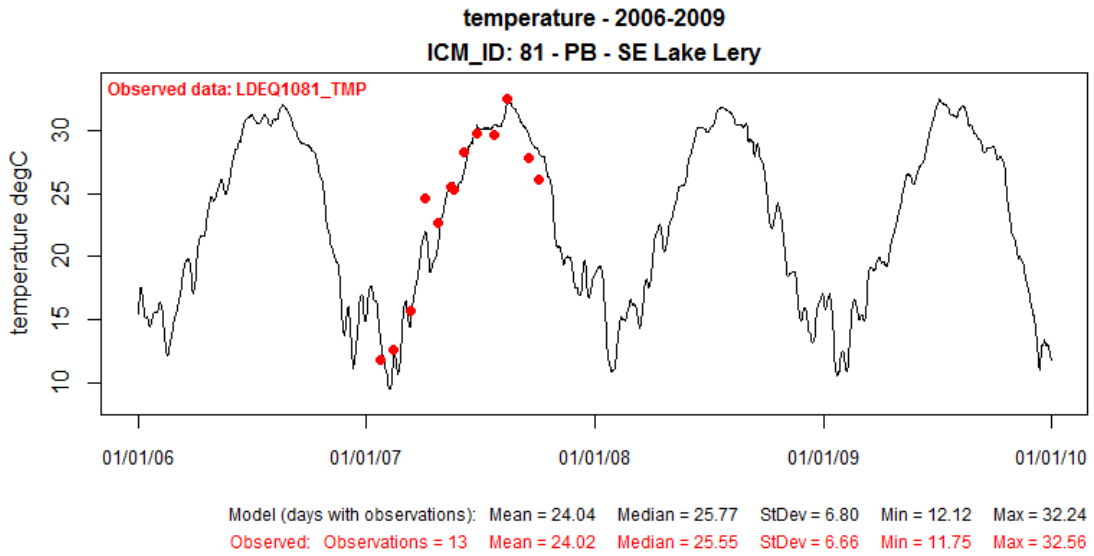

Figure 42: Modeled Temperature (degrees C) at ICM Compartment 81 (solid black line) Compared to Observed Data at LDEQ1081 for Validation Period, 2006-2009.

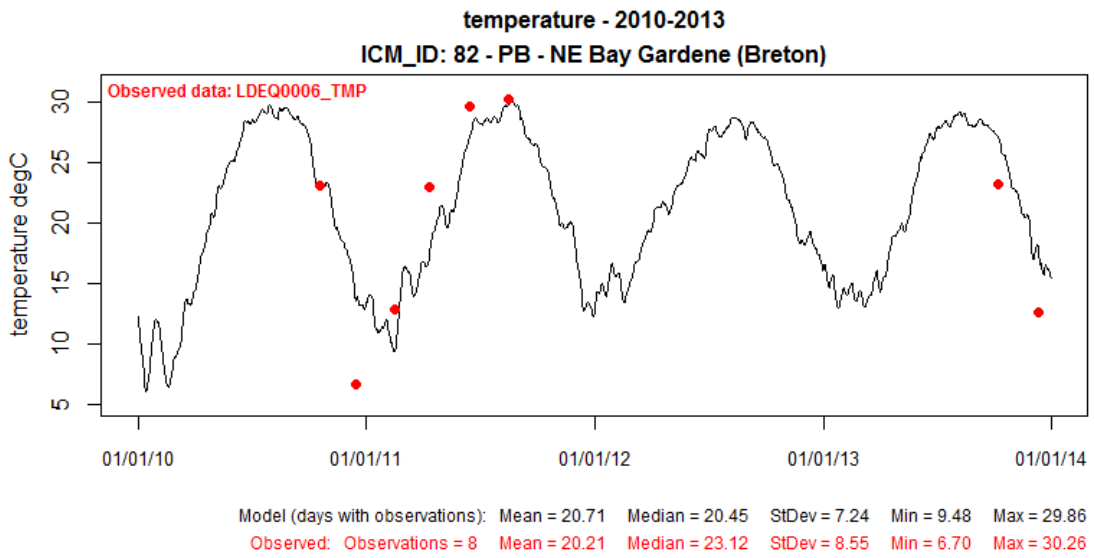

Figure 43: Modeled Temperature (degrees C) at ICM Compartment 82 (solid black line) Compared to Observed Data at LDEQ0006 for Calibration Period, 2010-2013.

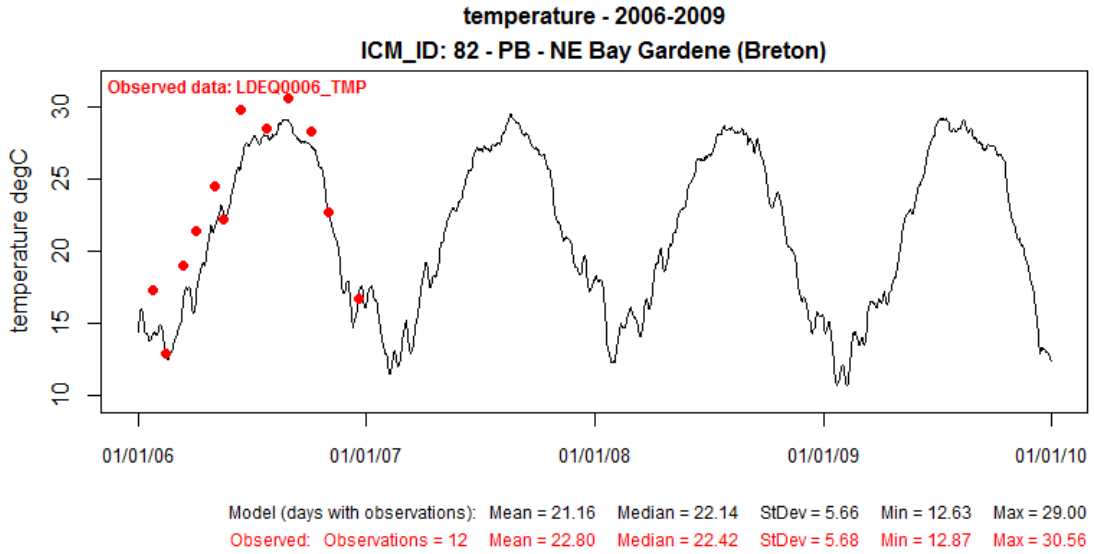

Figure 44: Modeled Temperature (degrees C) at ICM Compartment 82 (solid black line) Compared to Observed Data at LDEQ0006 for Validation Period, 2006-2009.

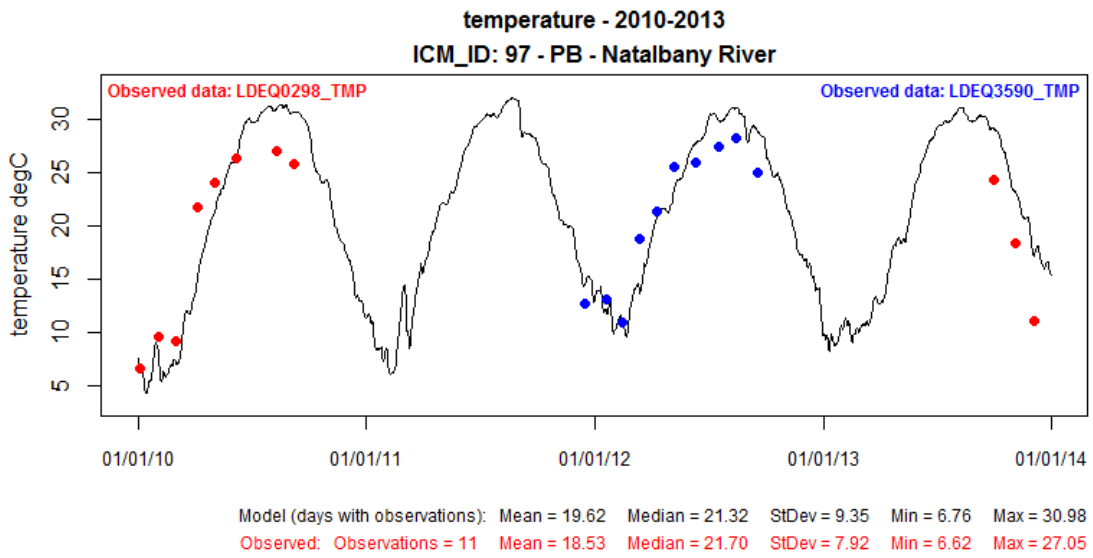

Figure 45: Modeled Temperature (degrees C) at ICM Compartment 97 (solid black line) Compared to Observed Data at LDEQ0298 for Calibration Period, 2010-2013.

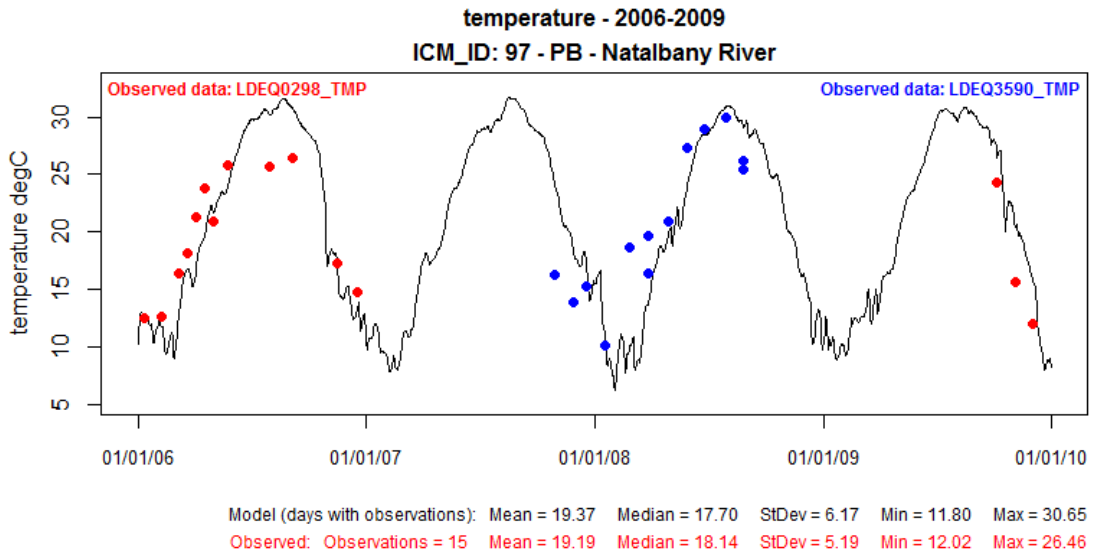

Figure 46: Modeled Temperature (degrees C) at ICM Compartment 97 (solid black line) Compared to Observed Data at LDEQ0298 for Validation Period, 2006-2009.

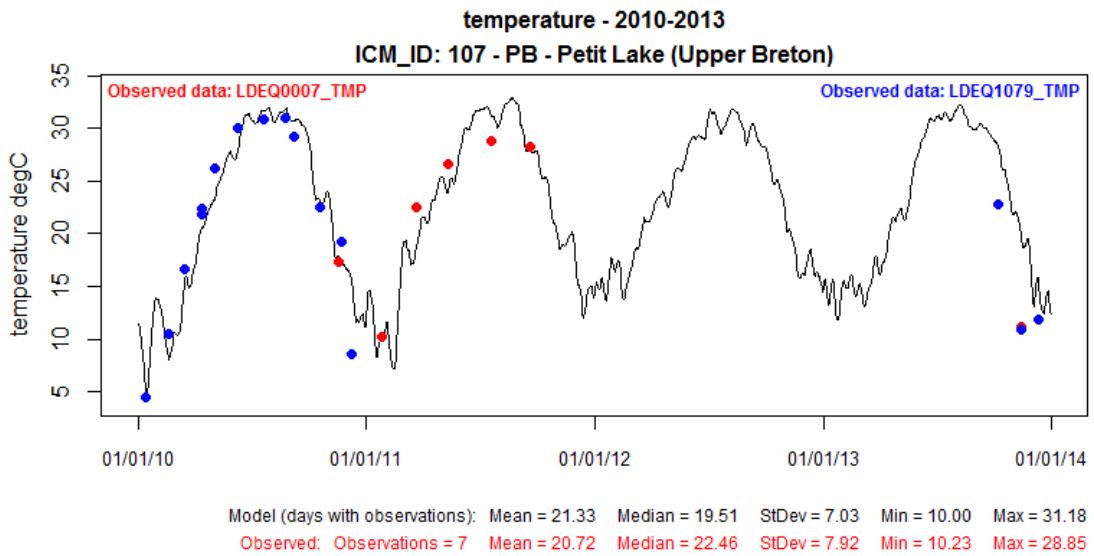

Figure 47: Modeled Temperature (degrees C) at ICM Compartment 107 (solid black line) Compared to Observed Data at LDEQ0007 for Calibration Period, 2010-2013.

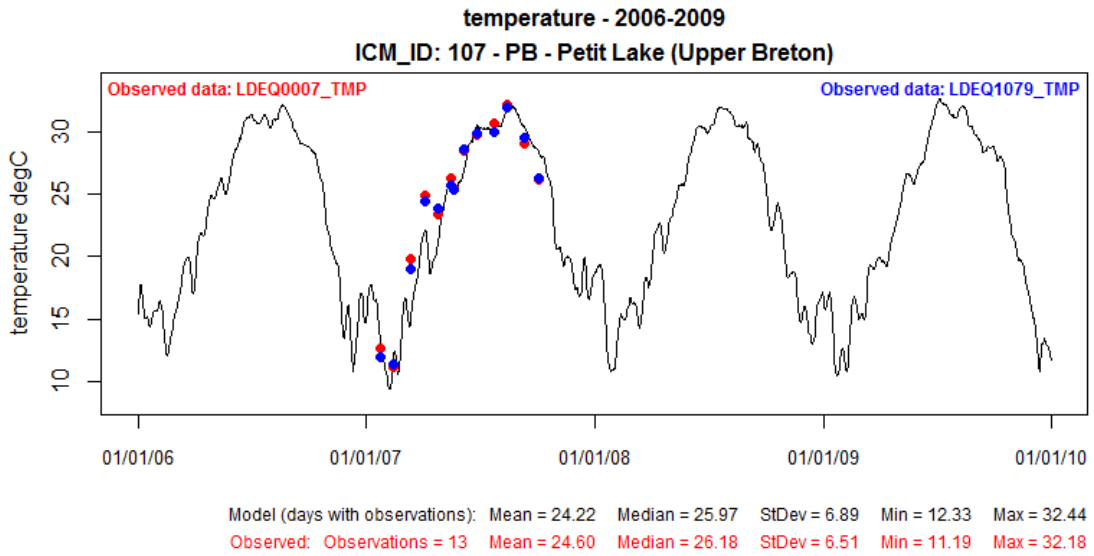

Figure 48: Modeled Temperature (degrees C) at ICM Compartment 107 (solid black line) Compared to Observed Data at LDEQ0007 for Validation Period, 2006-2009.

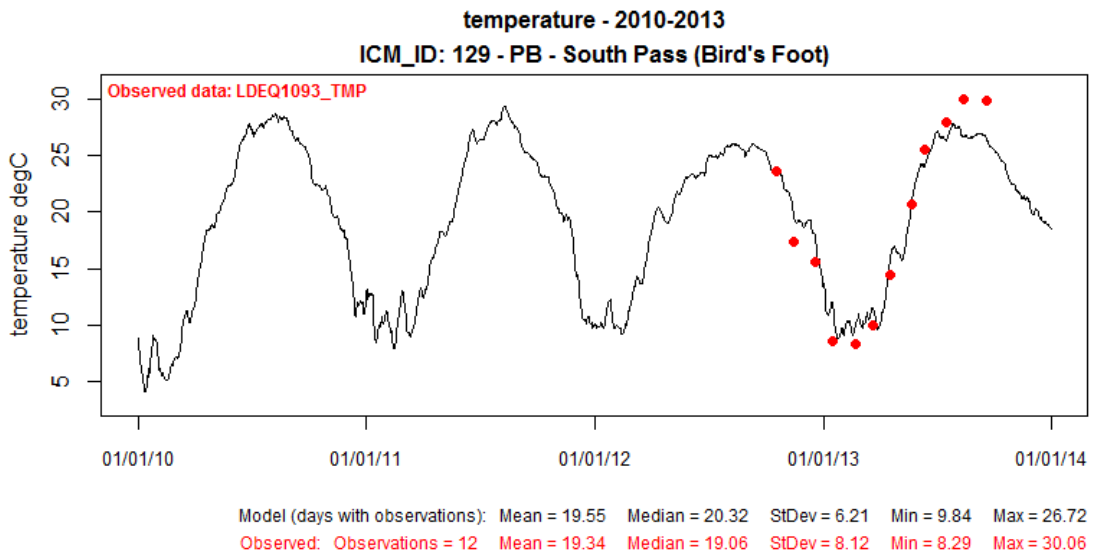

Figure 49: Modeled Temperature (degrees C) at ICM Compartment 129 (solid black line) Compared to Observed Data at LDEQ1093 for Calibration Period, 2010-2013.

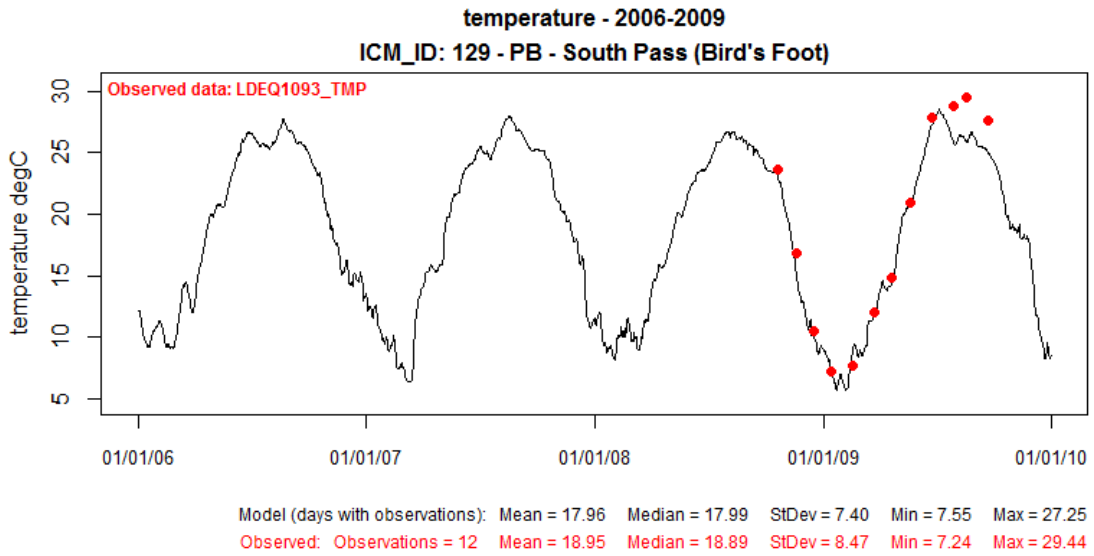

Figure 50: Modeled Temperature (degrees C) at ICM Compartment 129 (solid black line) Compared to Observed Data at LDEQ1093 for Validation Period, 2006-2009.

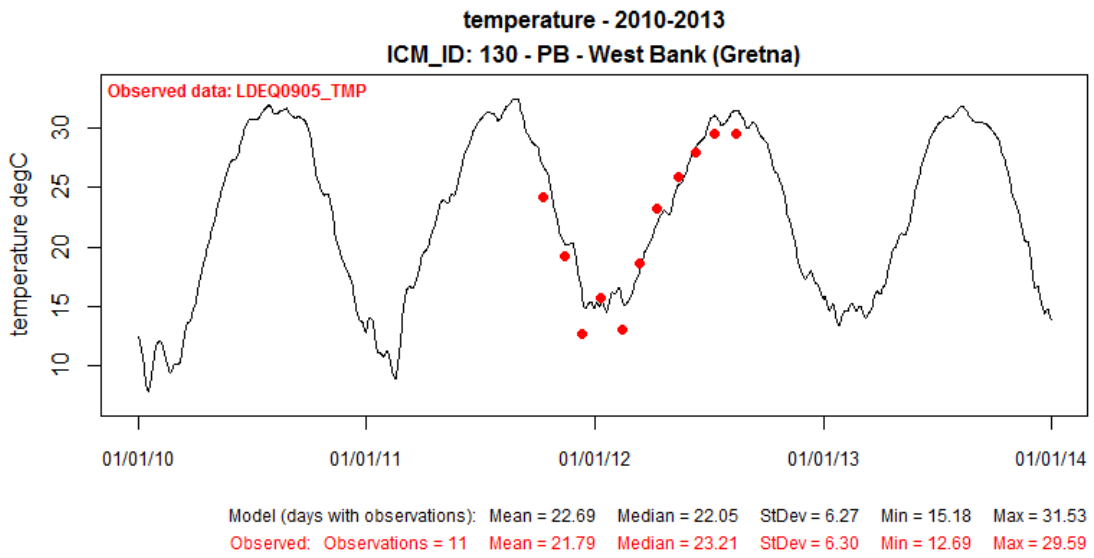

Figure 51: Modeled Temperature (degrees C) at ICM Compartment 130 (solid black line) Compared to Observed Data at LDEQ0905 for Calibration Period, 2010-2013.

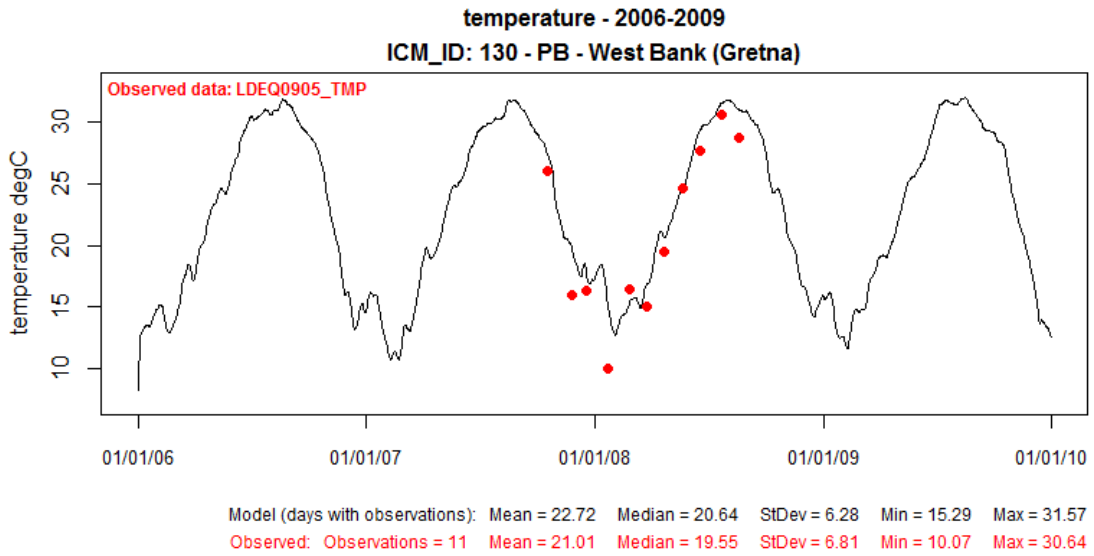

Figure 52: Modeled Temperature (degrees C) at ICM Compartment 130 (solid black line) Compared to Observed Data at LDEQ0905 for Validation Period, 2006-2009.

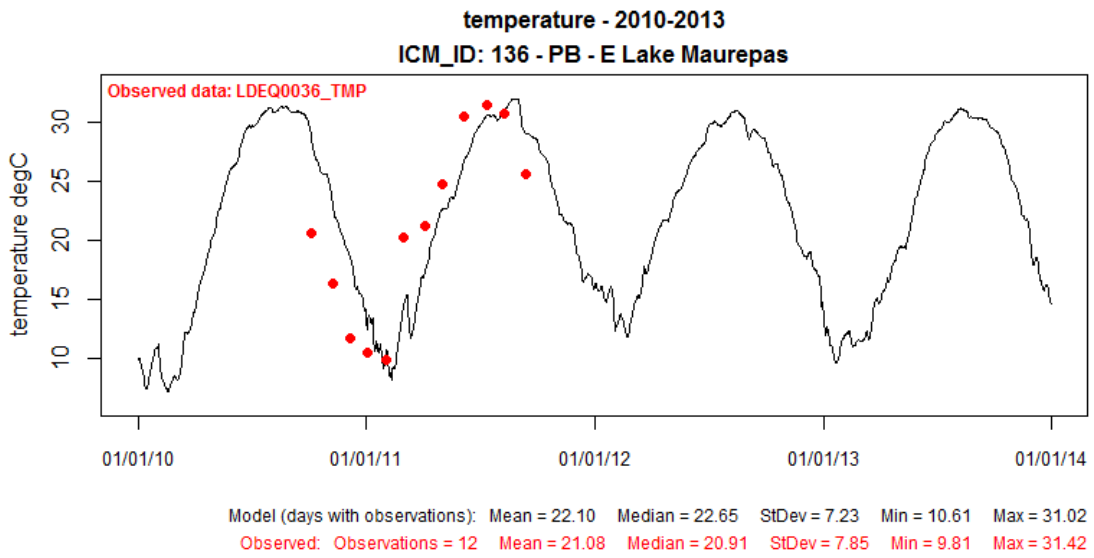

Figure 53: Modeled Temperature (degrees C) at ICM Compartment 136 (solid black line) Compared to Observed Data at LDEQ0036 for Calibration Period, 2010-2013.

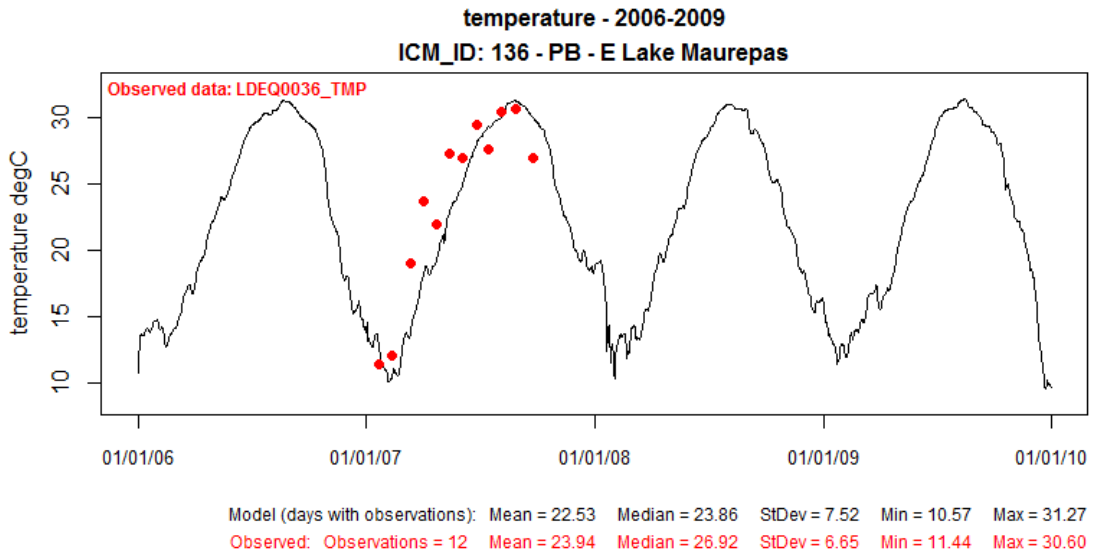

Figure 54: Modeled Temperature (degrees C) at ICM Compartment 136 (solid black line) Compared to Observed Data at LDEQ0036 for Validation Period, 2006-2009.

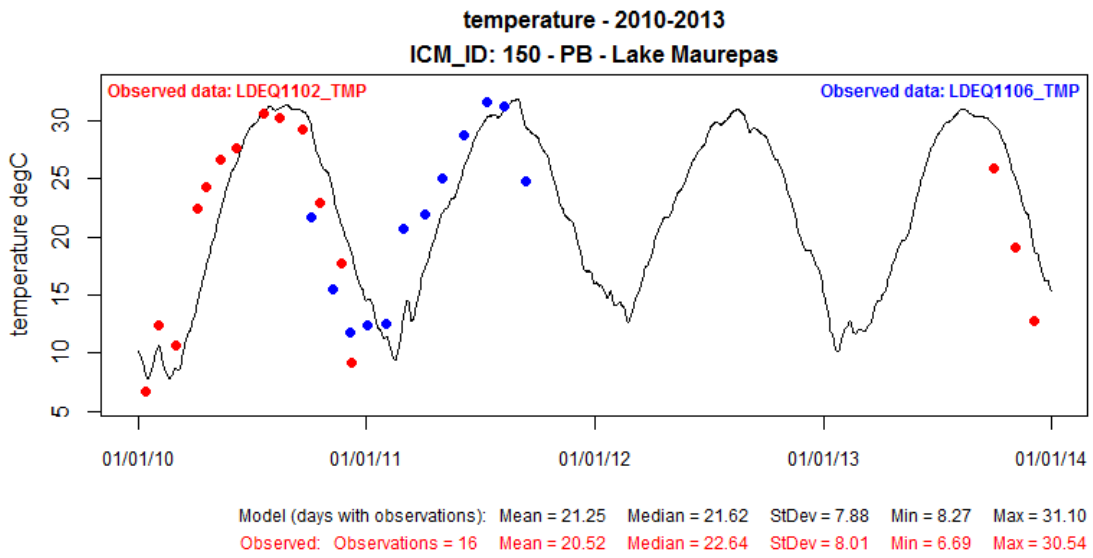

Figure 55: Modeled Temperature (degrees C) at ICM Compartment 150 (solid black line) Compared to Observed Data at LDEQ1102 for Calibration Period, 2010-2013.

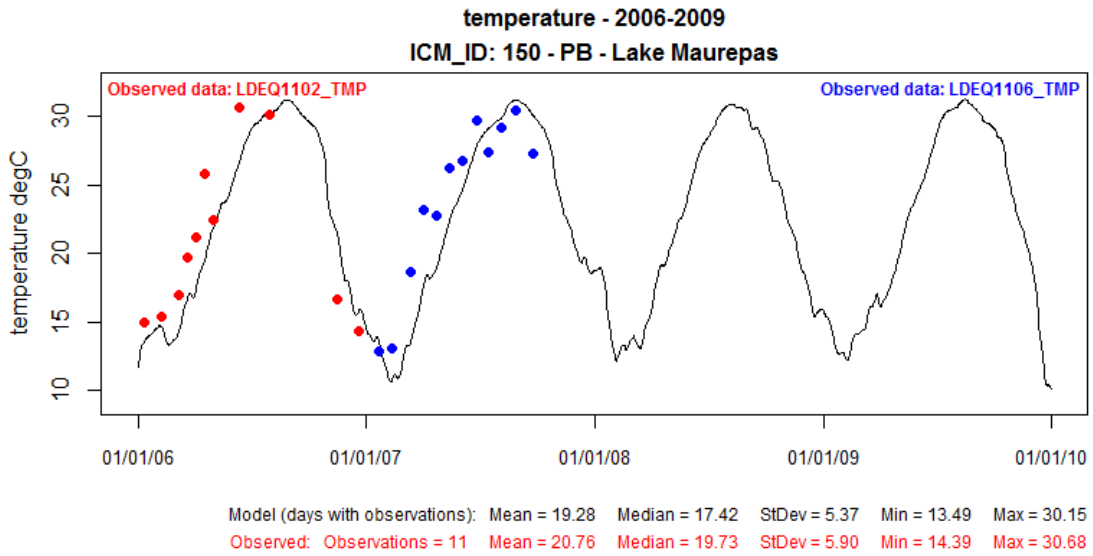

Figure 56: Modeled Temperature (degrees C) at ICM Compartment 150 (solid black line) Compared to Observed Data at LDEQ1102 for Validation Period, 2006-2009.

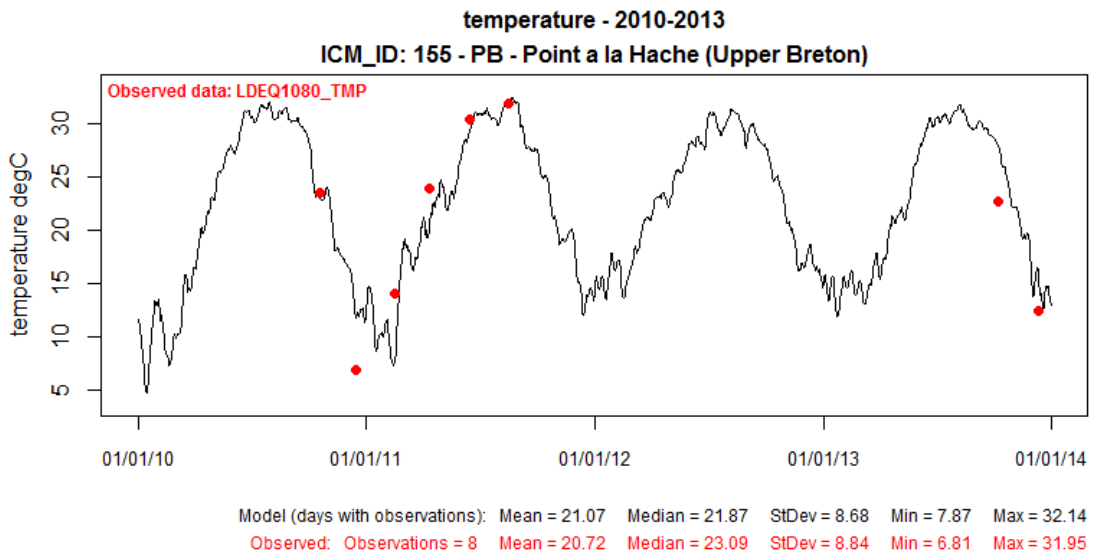

Figure 57: Modeled Temperature (degrees C) at ICM Compartment 155 (solid black line) Compared to Observed Data at LDEQ1080 for Calibration Period, 2010-2013.

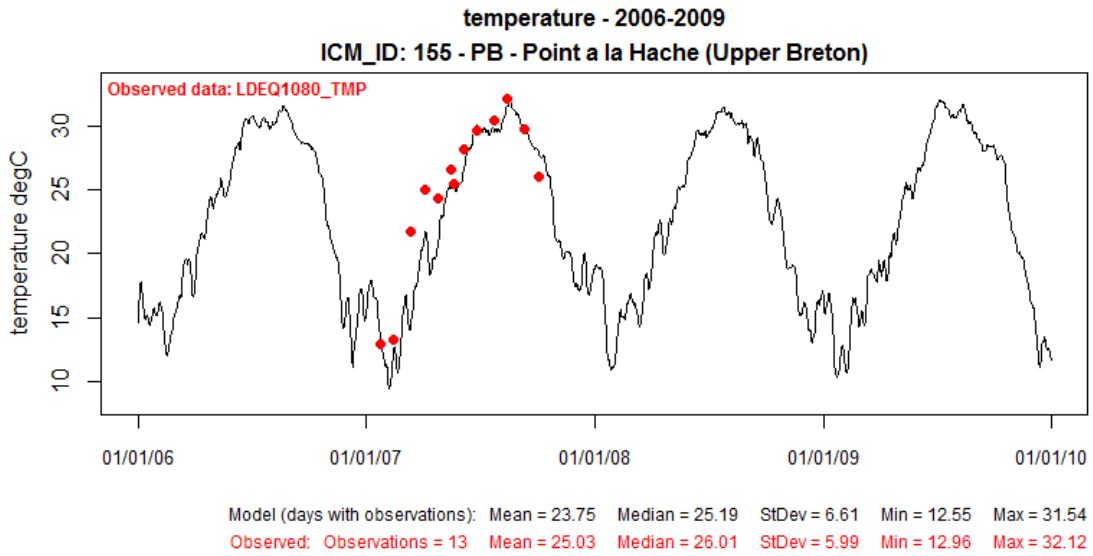

Figure 58: Modeled Temperature (degrees C) at ICM Compartment 155 (solid black line) Compared to Observed Data at LDEQ1080 for Validation Period, 2006-2009.

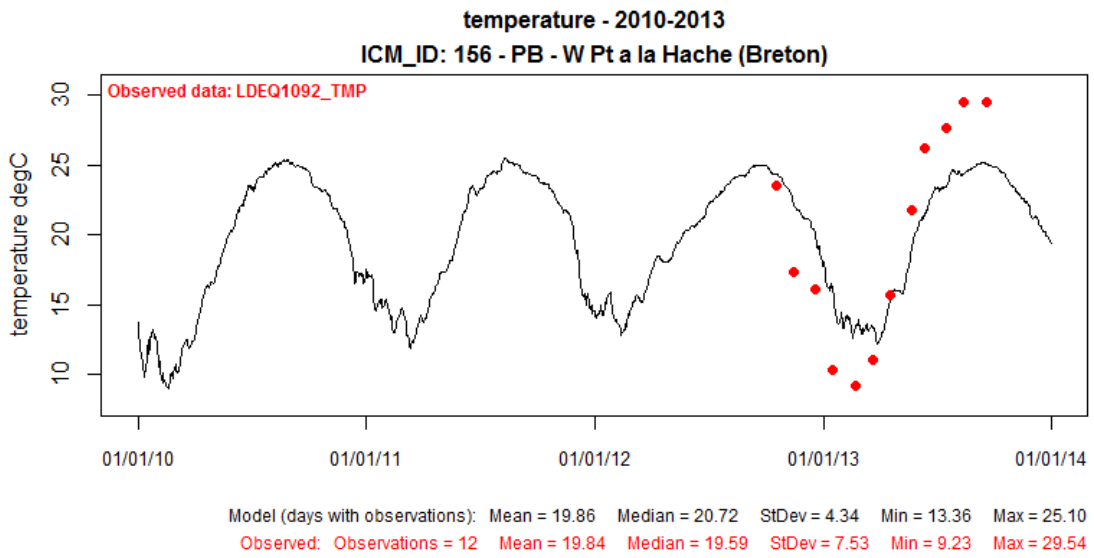

Figure 59: Modeled Temperature (degrees C) at ICM Compartment 156 (solid black line) Compared to Observed Data at LDEQ1092 for Calibration Period, 2010-2013.

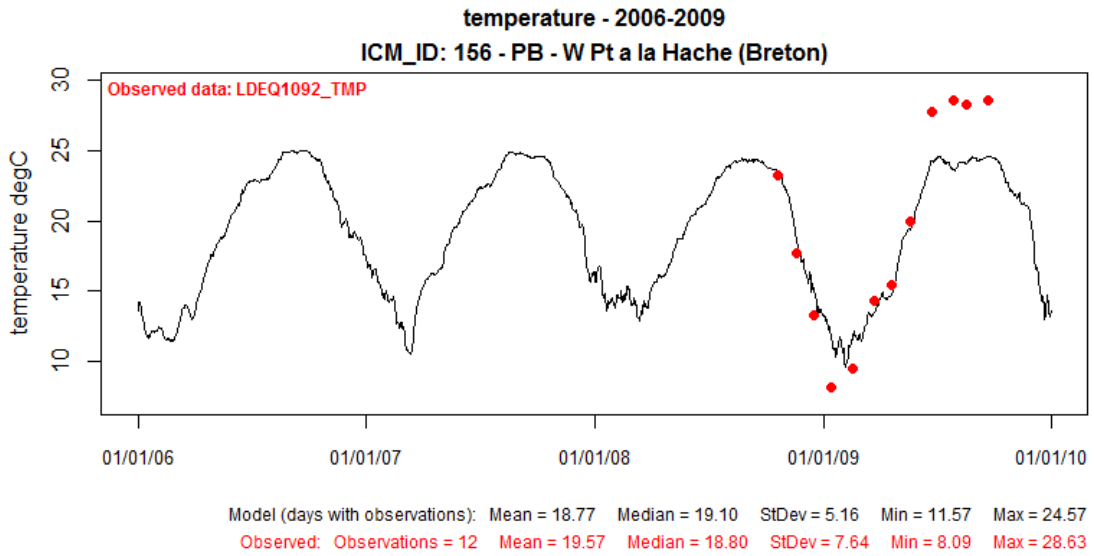

Figure 60: Modeled Temperature (degrees C) at ICM Compartment 156 (solid black line) Compared to Observed Data at LDEQ1092 for Validation Period, 2006-2009.

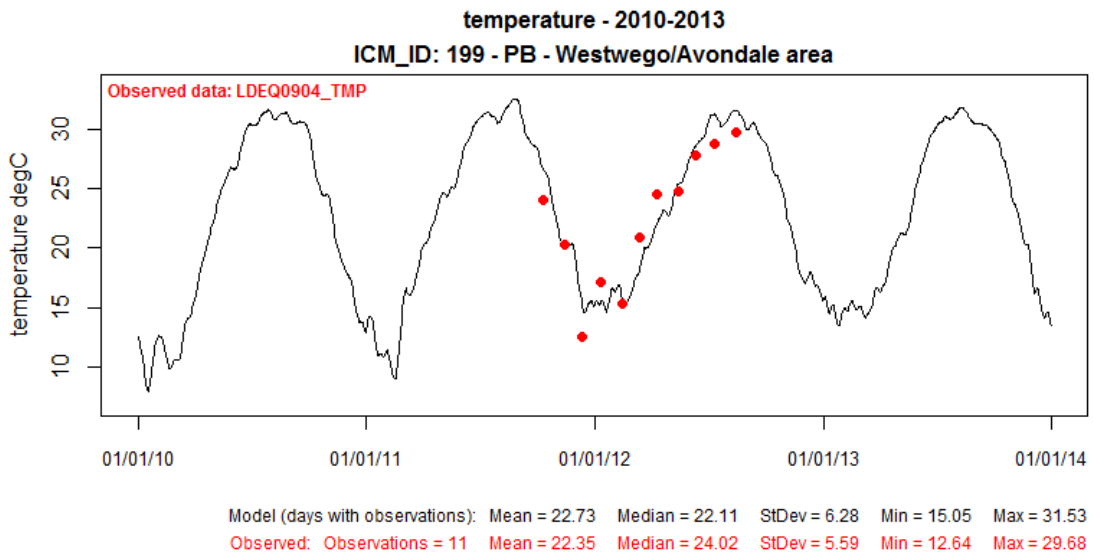

Figure 61: Modeled Temperature (degrees C) at ICM Compartment 199 (solid black line) Compared to Observed Data at LDEQ0904 for Calibration Period, 2010-2013.

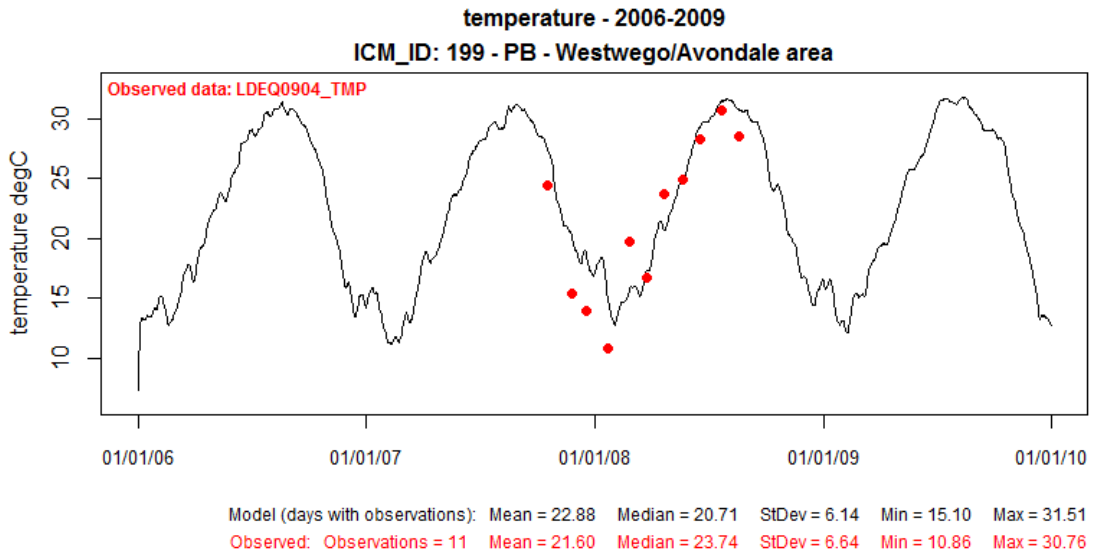

Figure 62: Modeled Temperature (degrees C) at ICM Compartment 199 (solid black line) Compared to Observed Data at LDEQ0904 for Validation Period, 2006-2009.

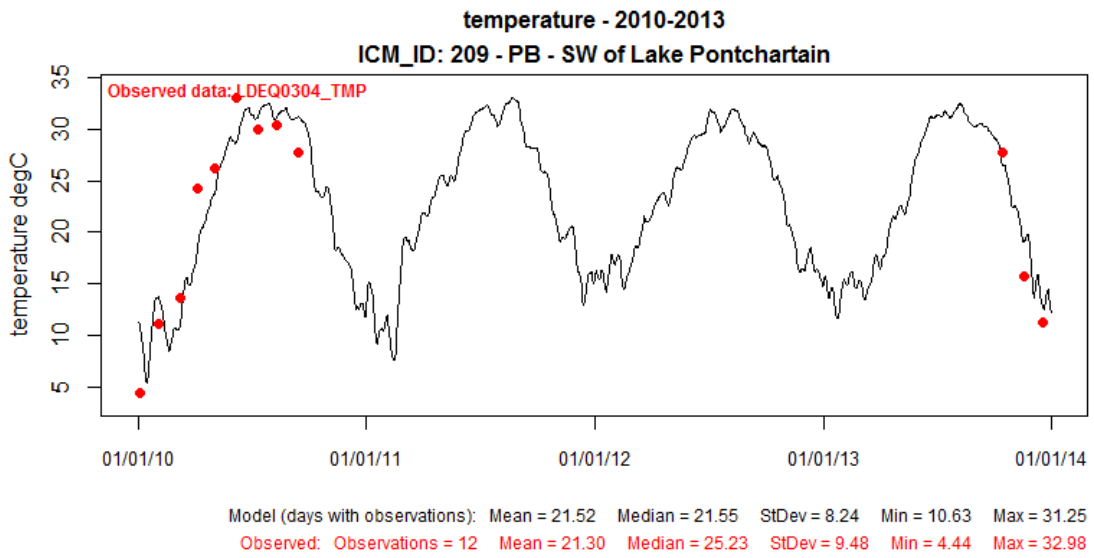

Figure 63: Modeled Temperature (degrees C) at ICM Compartment 209 (solid black line) Compared to Observed Data at LDEQ0304 for Calibration Period, 2010-2013.

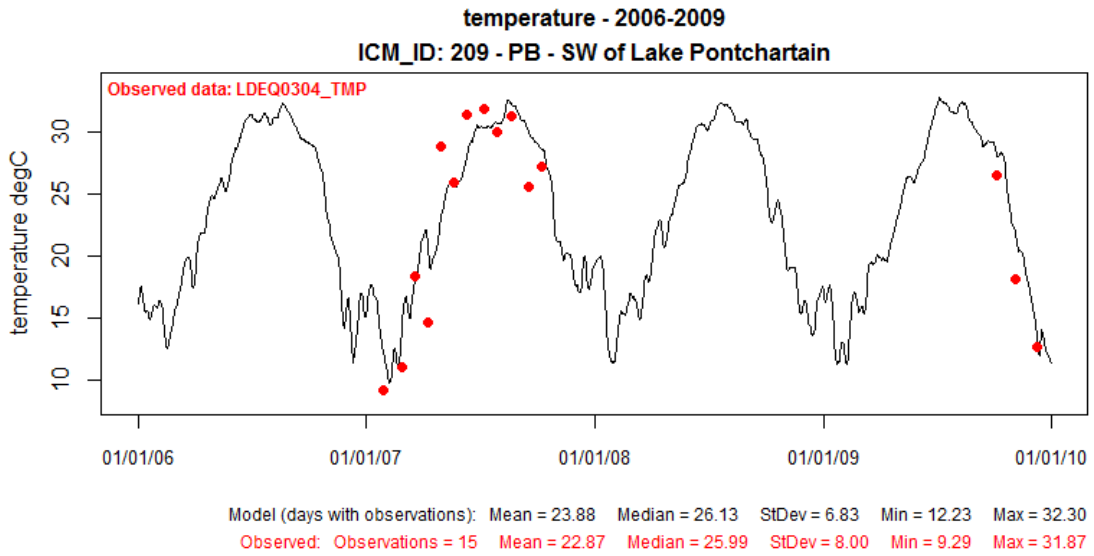

Figure 64: Modeled Temperature (degrees C) at ICM Compartment 209 (solid black line) Compared to Observed Data at LDEQ0304 for Validation Period, 2006-2009.

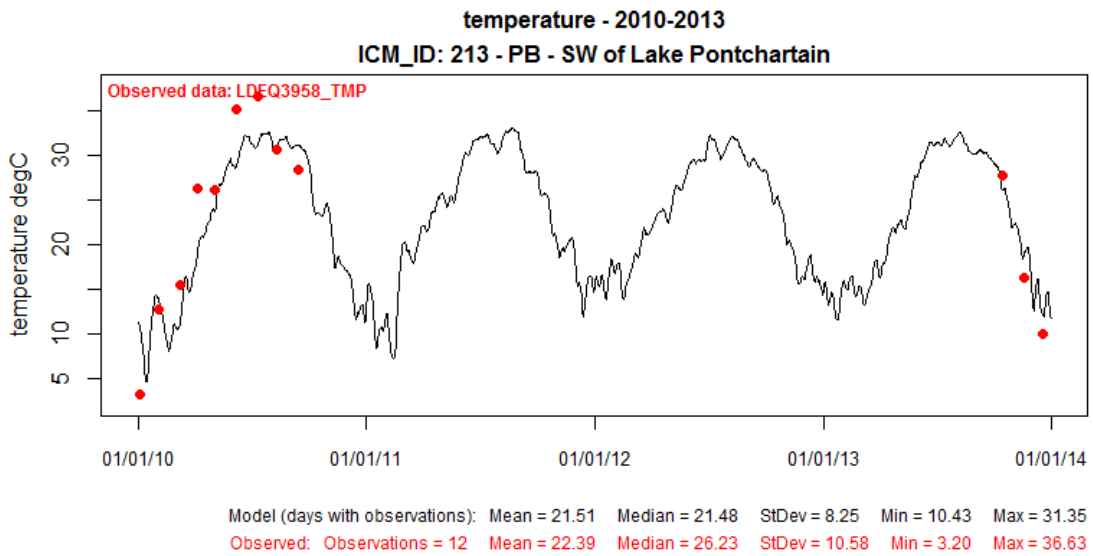

Figure 65: Modeled Temperature (degrees C) at ICM Compartment 213 (solid black line) Compared to Observed Data at LDEQ3958 for Calibration Period, 2010-2013.

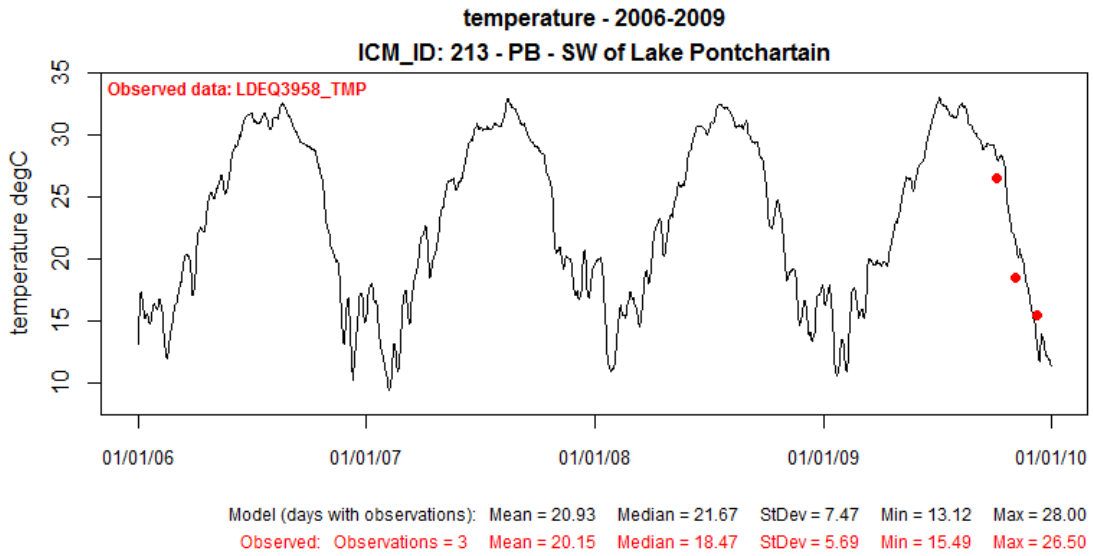

Figure 66: Modeled Temperature (degrees C) at ICM Compartment 213 (solid black line) Compared to Observed Data at LDEQ3958 for Validation Period, 2006-2009.

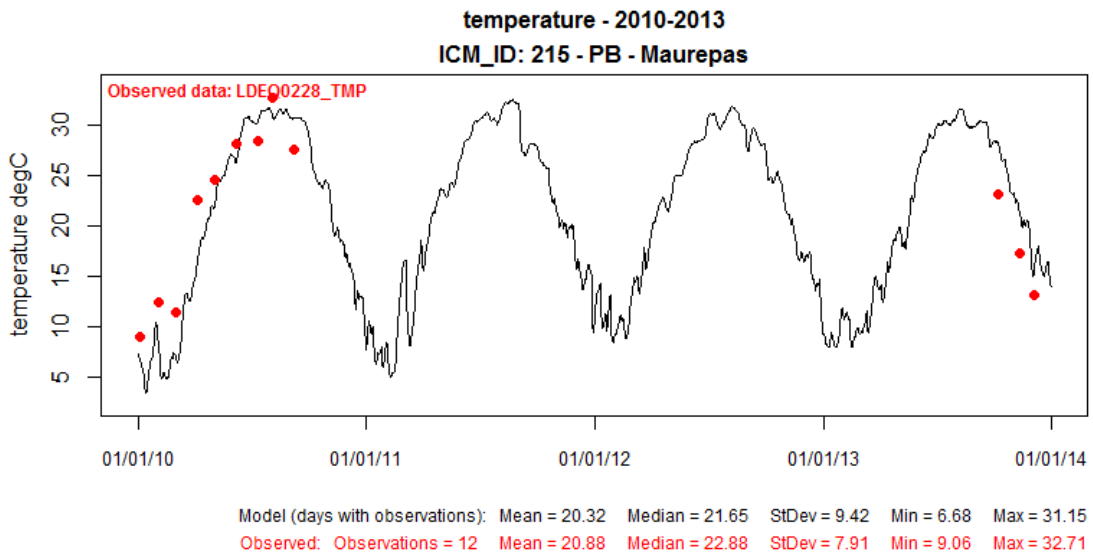

Figure 67: Modeled Temperature (degrees C) at ICM Compartment 215 (solid black line) Compared to Observed Data at LDEQ0228 for Calibration Period, 2010-2013.

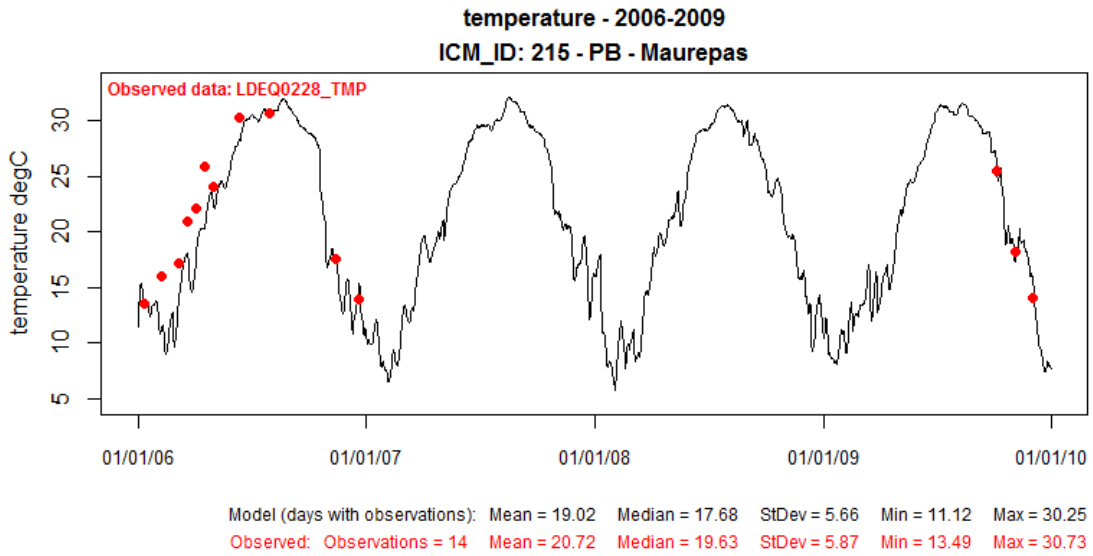

Figure 68: Modeled Temperature (degrees C) at ICM Compartment 215 (solid black line) Compared to Observed Data at LDEQ0228 for Validation Period, 2006-2009.

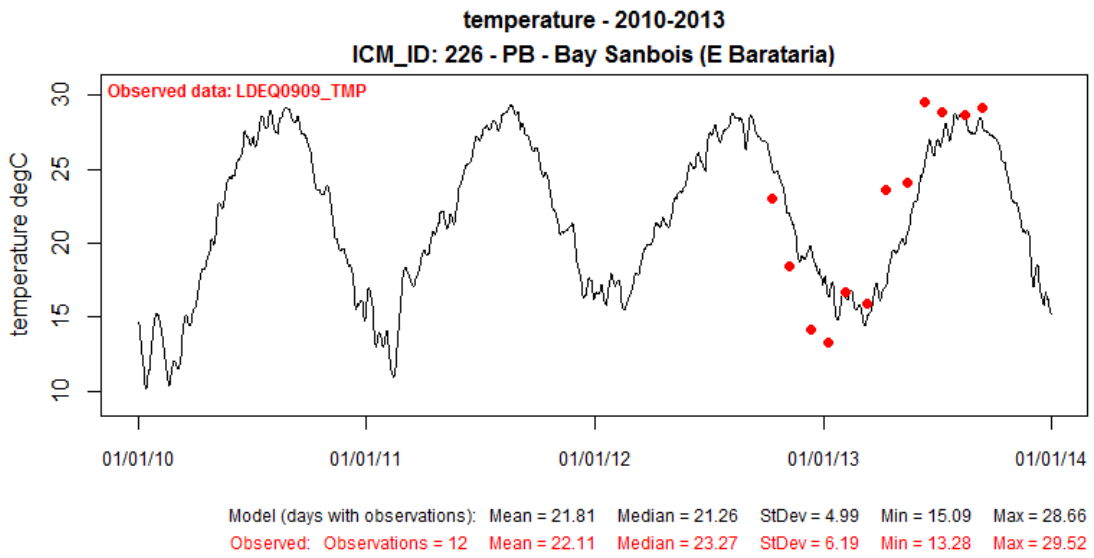

Figure 69: Modeled Temperature (degrees C) at ICM Compartment 226 (solid black line) Compared to Observed Data at LDEQ0909 for Calibration Period, 2010-2013.

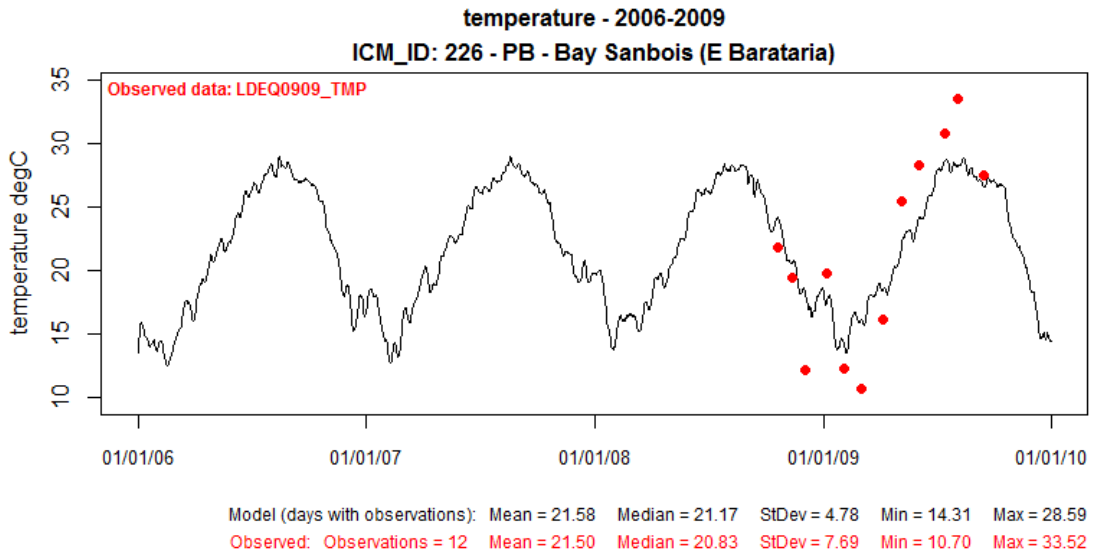

Figure 70: Modeled Temperature (degrees C) at ICM Compartment 226 (solid black line) Compared to Observed Data at LDEQ0909 for Validation Period, 2006-2009.

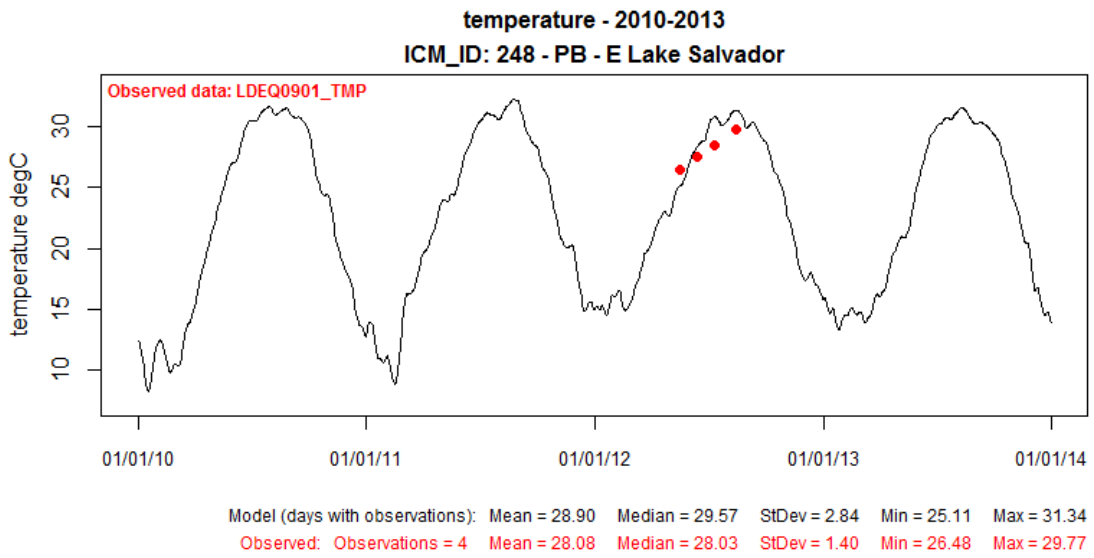

Figure 71: Modeled Temperature (degrees C) at ICM Compartment 248 (solid black line) Compared to Observed Data at LDEQ0901 for Calibration Period, 2010-2013.

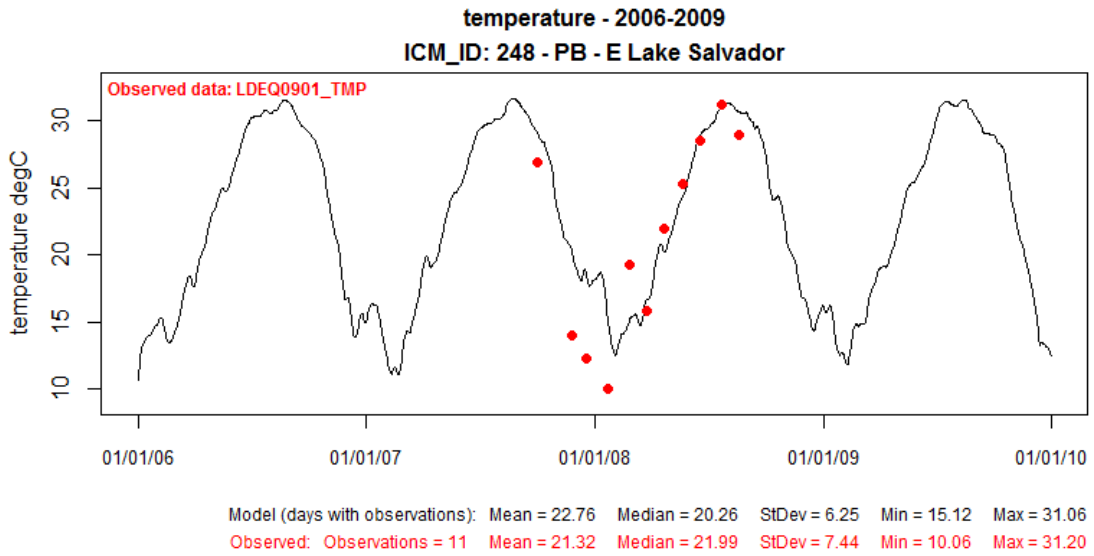

Figure 72: Modeled Temperature (degrees C) at ICM Compartment 248 (solid black line) Compared to Observed Data at LDEQ0901 for Validation Period, 2006-2009.

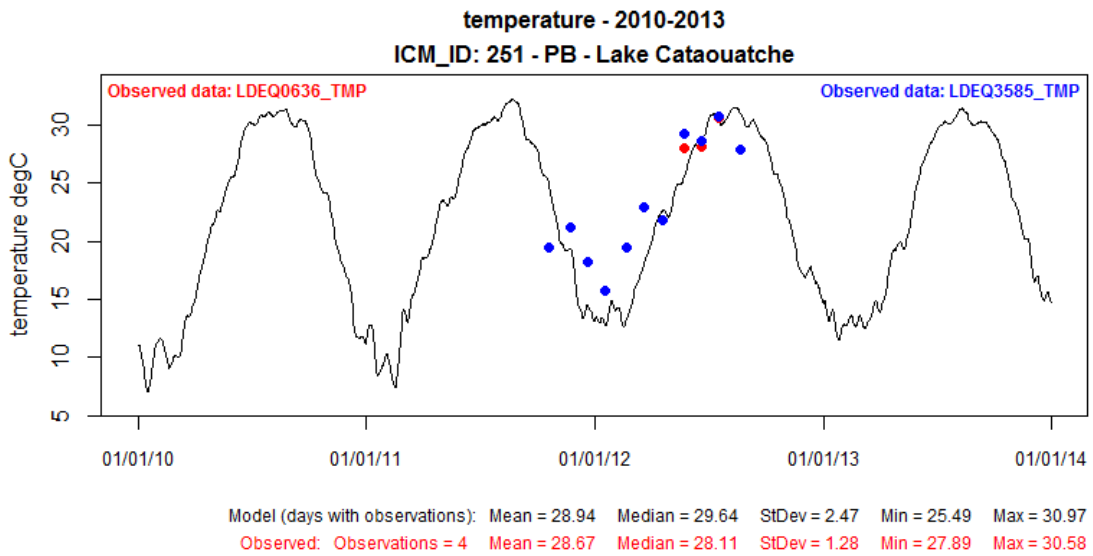

Figure 73: Modeled Temperature (degrees C) at ICM Compartment 251 (solid black line) Compared to Observed Data at LDEQ0636 for Calibration Period, 2010-2013.

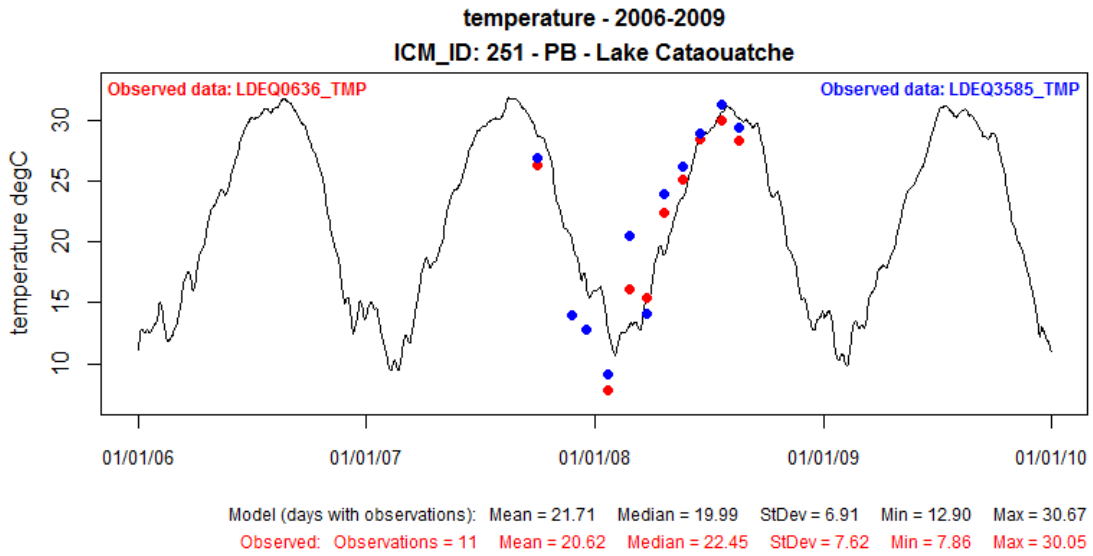

Figure 74: Modeled Temperature (degrees C) at ICM Compartment 251 (solid black line) Compared to Observed Data at LDEQ0636 for Validation Period, 2006-2009.

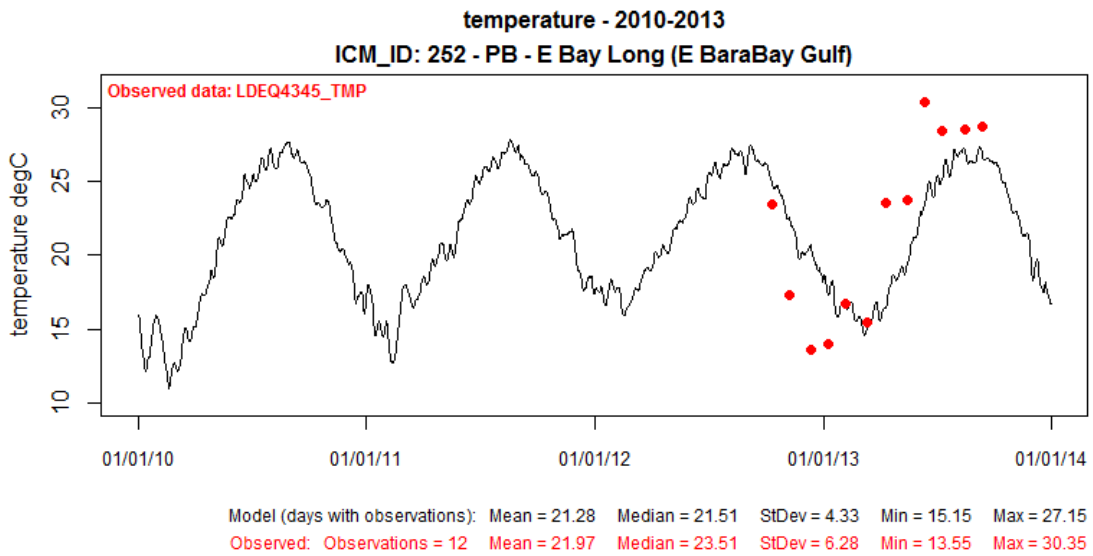

Figure 75: Modeled Temperature (degrees C) at ICM Compartment 252 (solid black line) Compared to Observed Data at LDEQ4345 for Calibration Period, 2010-2013.

Figure 76: No Validation Figure for ICM Compartment 252.

DRAFT

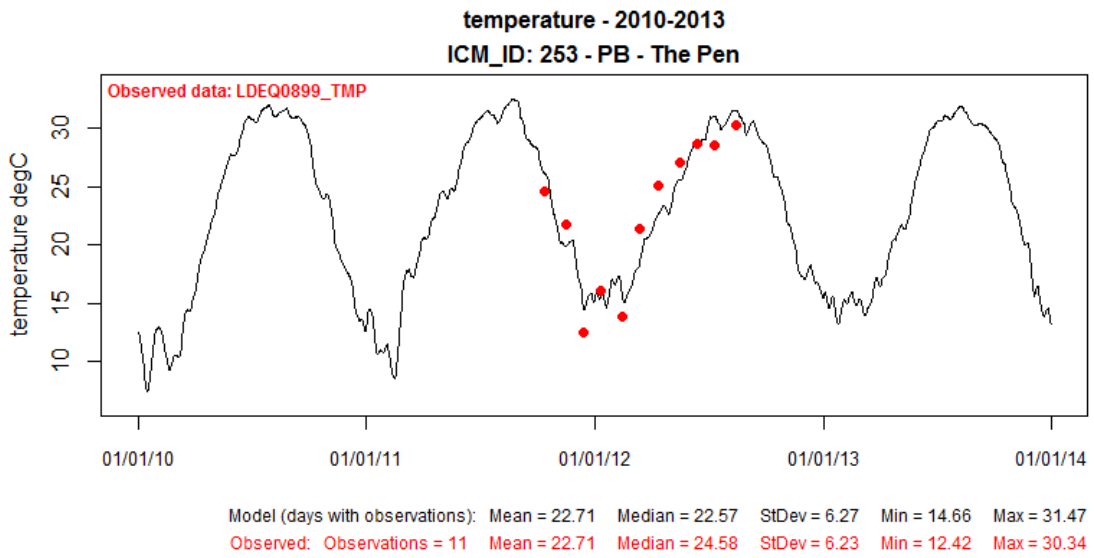

Figure 77: Modeled Temperature (degrees C) at ICM Compartment 253 (solid black line) Compared to Observed Data at LDEQ0899 for Calibration Period, 2010-2013.

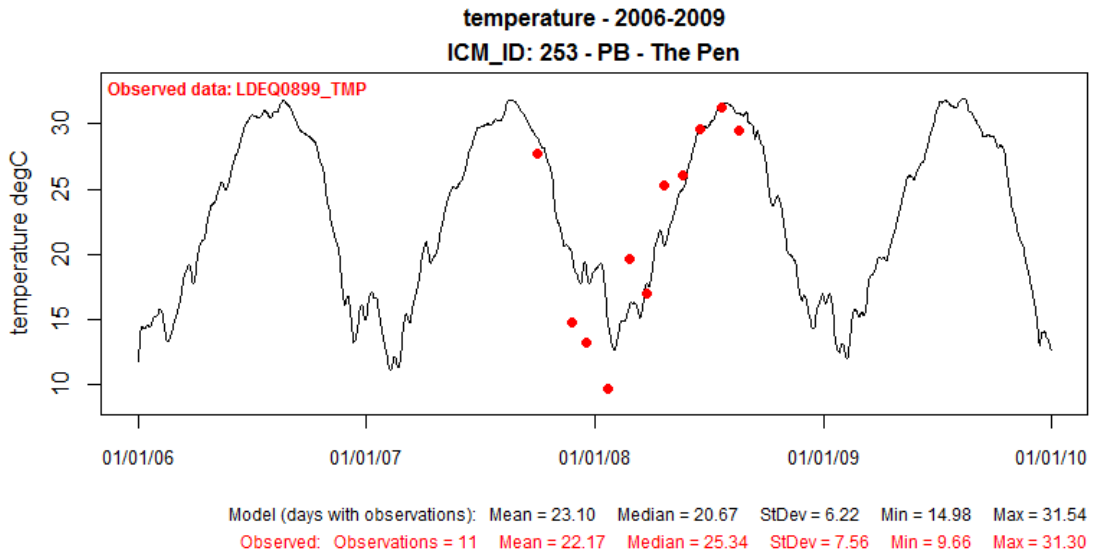

Figure 78: Modeled Temperature (degrees C) at ICM Compartment 253 (solid black line) Compared to Observed Data at LDEQ0899 for Validation Period, 2006-2009.

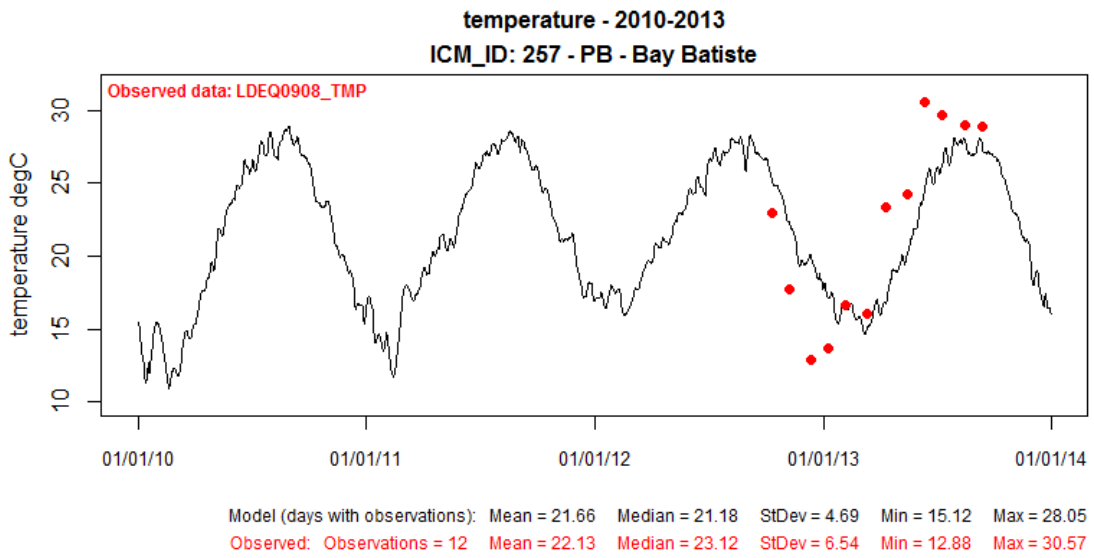

Figure 79: Modeled Temperature (degrees C) at ICM Compartment 257 (solid black line) Compared to Observed Data at LDEQ0908 for Calibration Period, 2010-2013.

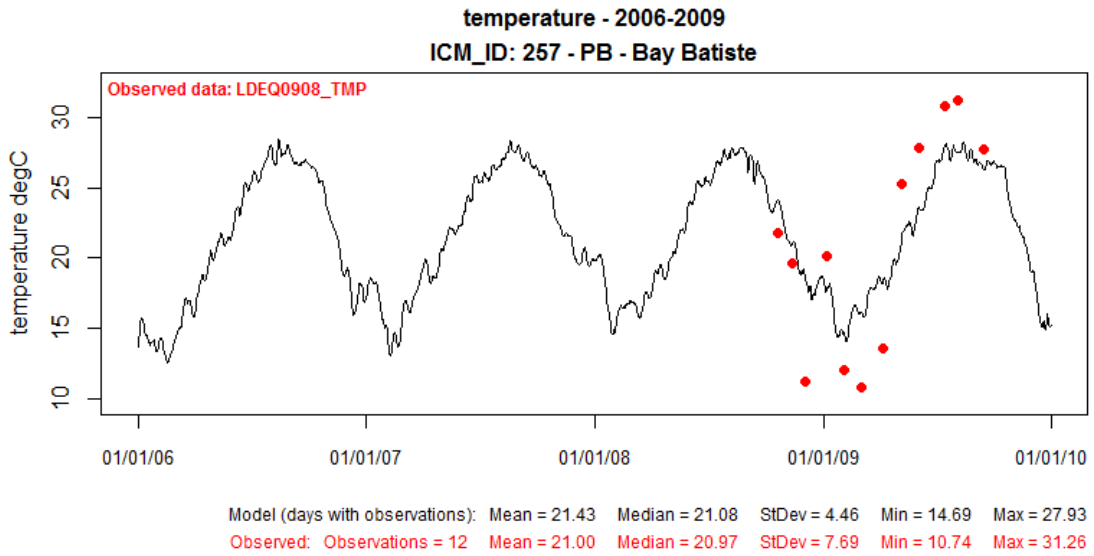

Figure 80: Modeled Temperature (degrees C) at ICM Compartment 257 (solid black line) Compared to Observed Data at LDEQ0908 for Validation Period, 2006-2009.

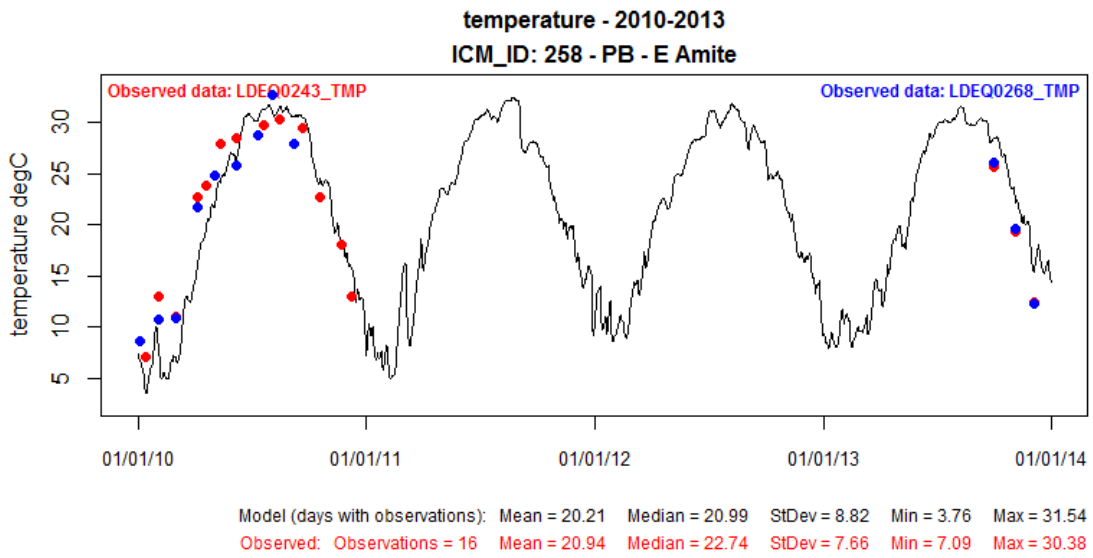

Figure 81: Modeled Temperature (degrees C) at ICM Compartment 258 (solid black line) Compared to Observed Data at LDEQ0243 for Calibration Period, 2010-2013.

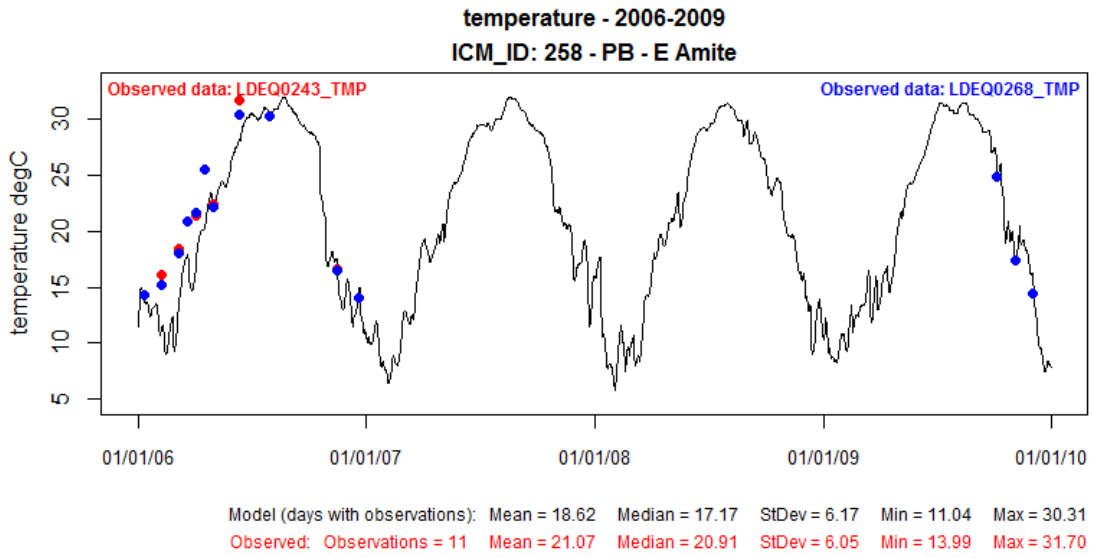

Figure 82: Modeled Temperature (degrees C) at ICM Compartment 258 (solid black line) Compared to Observed Data at LDEQ0243 for Validation Period, 2006-2009.

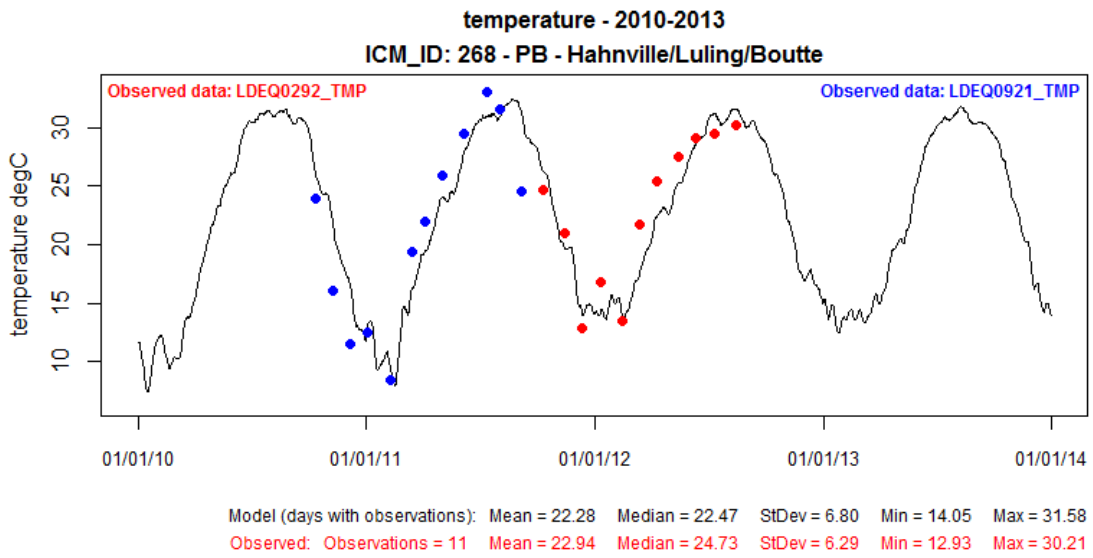

Figure 83: Modeled Temperature (degrees C) at ICM Compartment 268 (solid black line) Compared to Observed Data at LDEQ0292 for Calibration Period, 2010-2013.

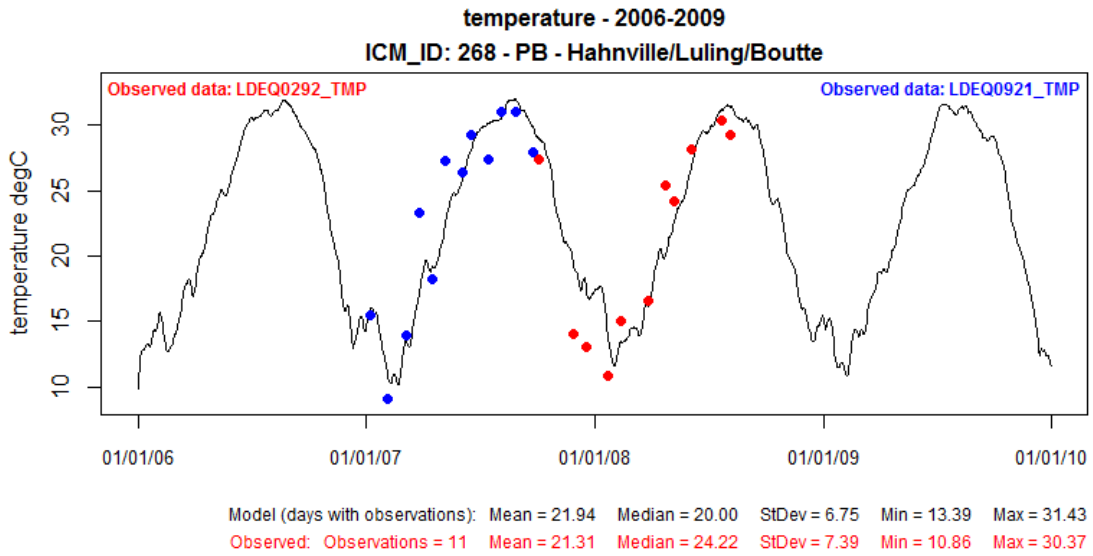

Figure 84: Modeled Temperature (degrees C) at ICM Compartment 268 (solid black line) Compared to Observed Data at LDEQ0292 for Validation Period, 2006-2009.

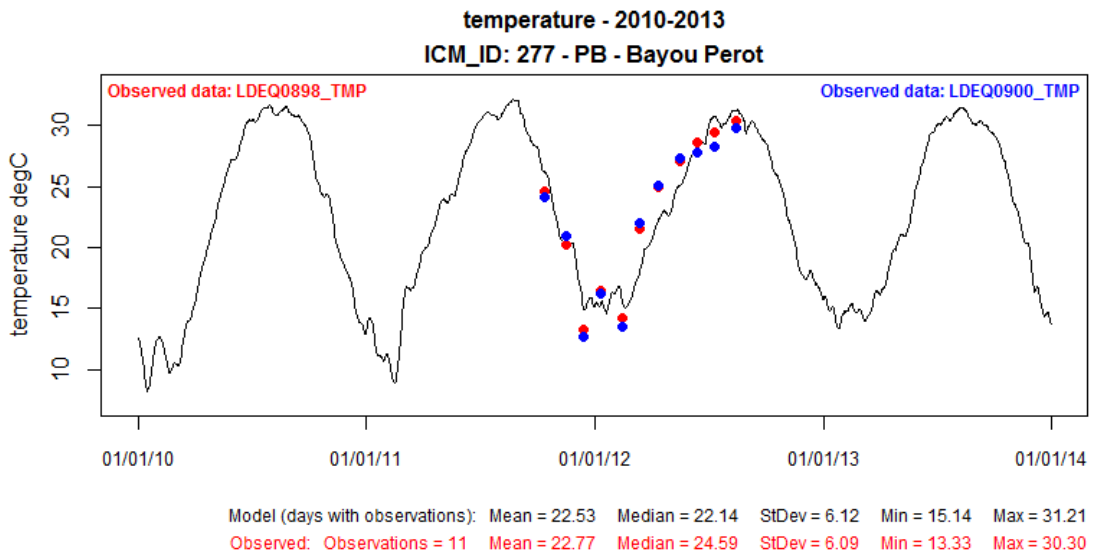

Figure 85: Modeled Temperature (degrees C) at ICM Compartment 277 (solid black line) Compared to Observed Data at LDEQ0898 for Calibration Period, 2010-2013.

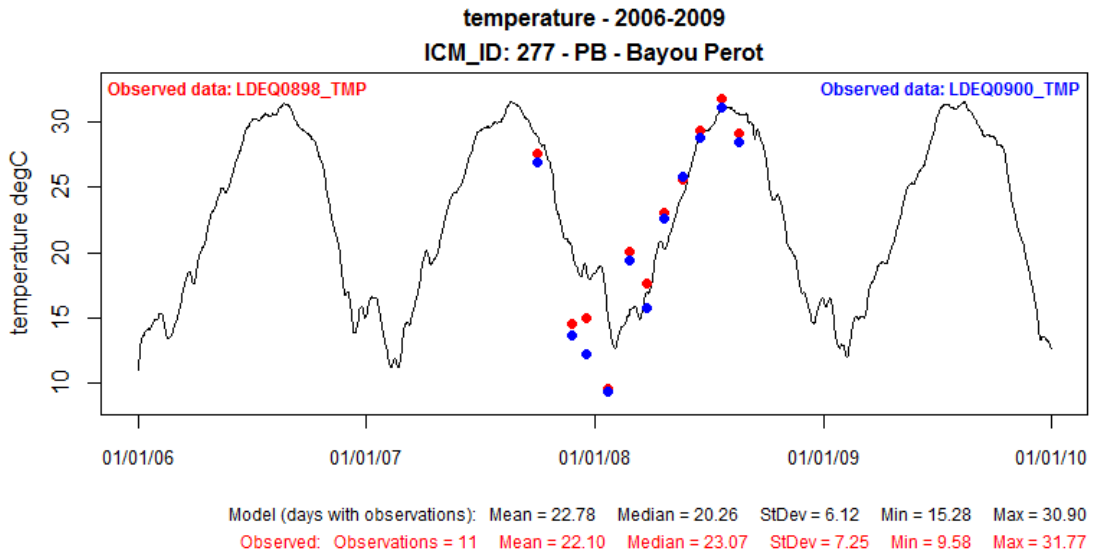

Figure 86: Modeled Temperature (degrees C) at ICM Compartment 277 (solid black line) Compared to Observed Data at LDEQ0898 for Validation Period, 2006-2009.

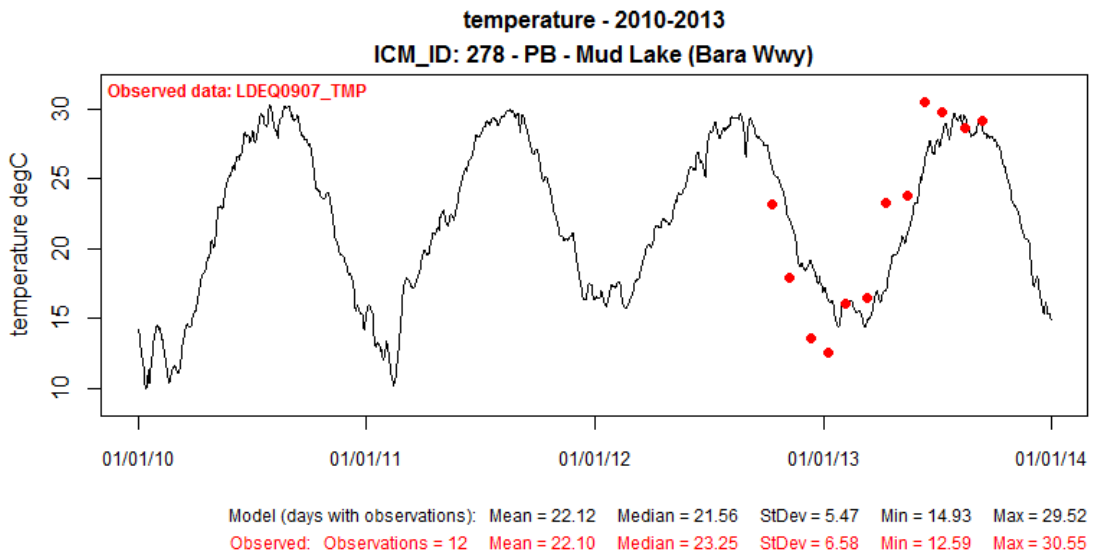

Figure 87: Modeled Temperature (degrees C) at ICM Compartment 278 (solid black line) Compared to Observed Data at LDEQ0907 for Calibration Period, 2010-2013.

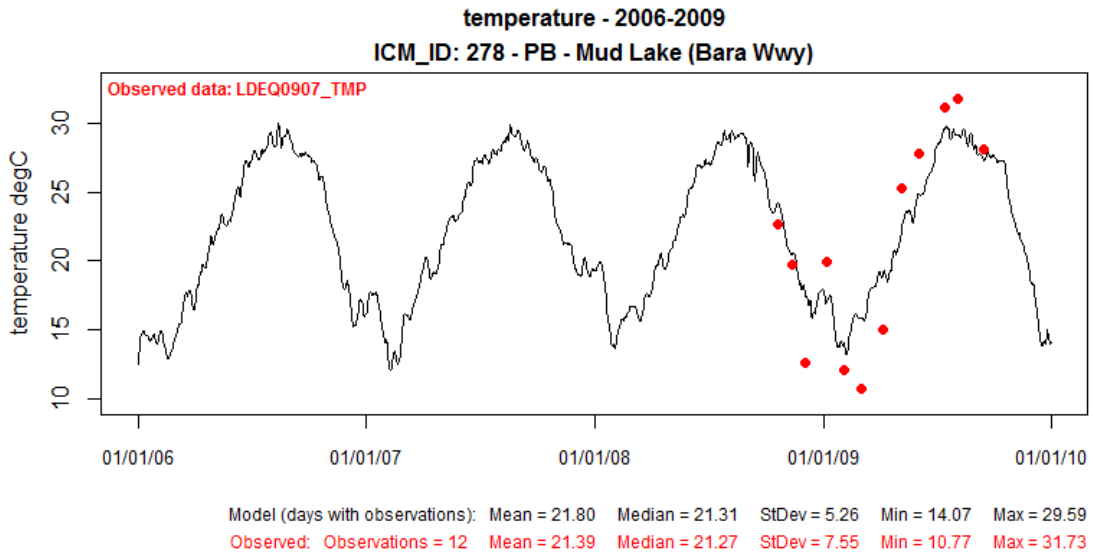

Figure 88: Modeled Temperature (degrees C) at ICM Compartment 278 (solid black line) Compared to Observed Data at LDEQ0907 for Validation Period, 2006-2009.

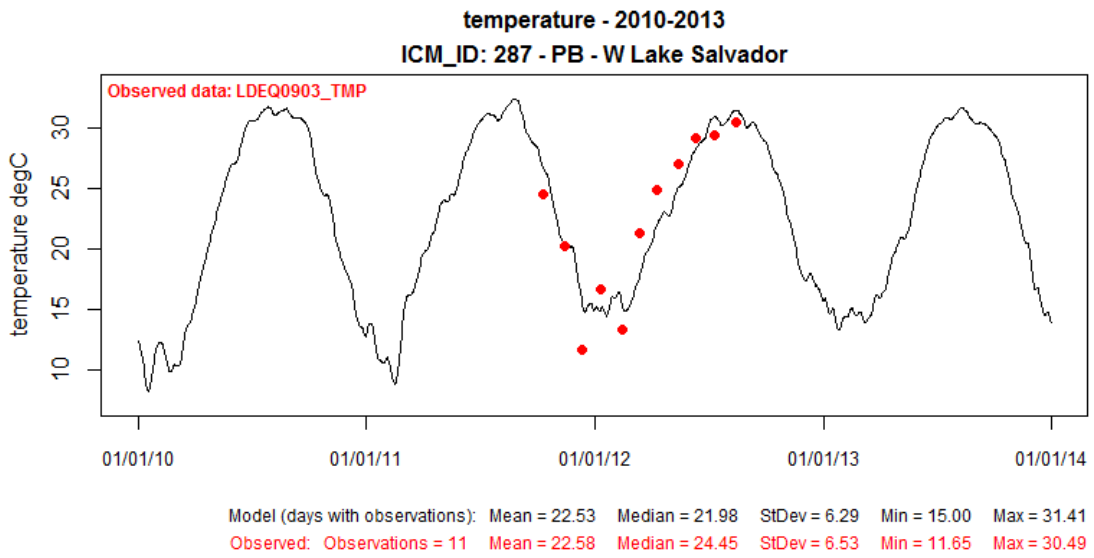

Figure 89: Modeled Temperature (degrees C) at ICM Compartment 287 (solid black line) Compared to Observed Data at LDEQ0903 for Calibration Period, 2010-2013.

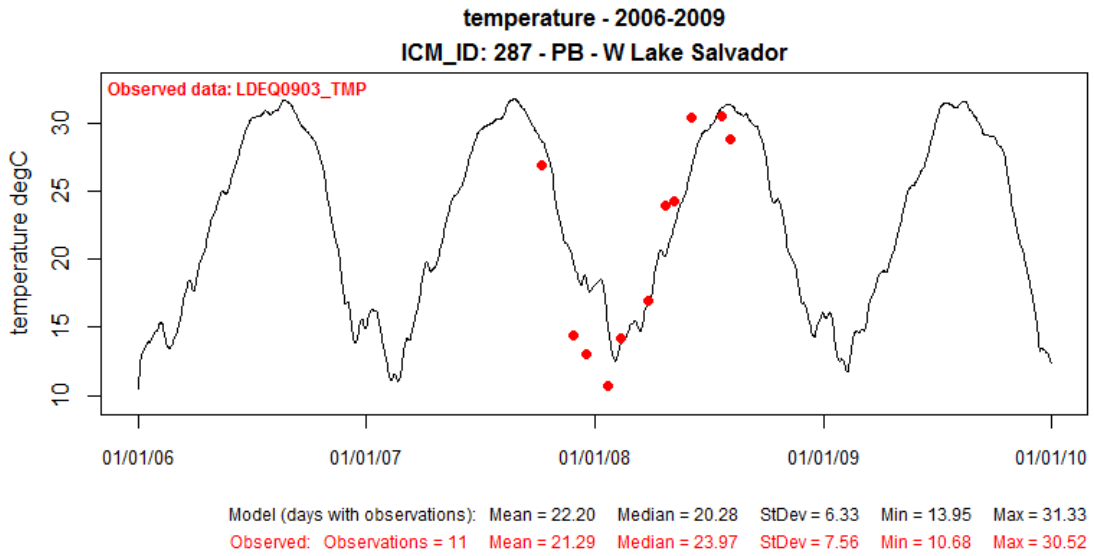

Figure 90: Modeled Temperature (degrees C) at ICM Compartment 287 (solid black line) Compared to Observed Data at LDEQ0903 for Validation Period, 2006-2009.

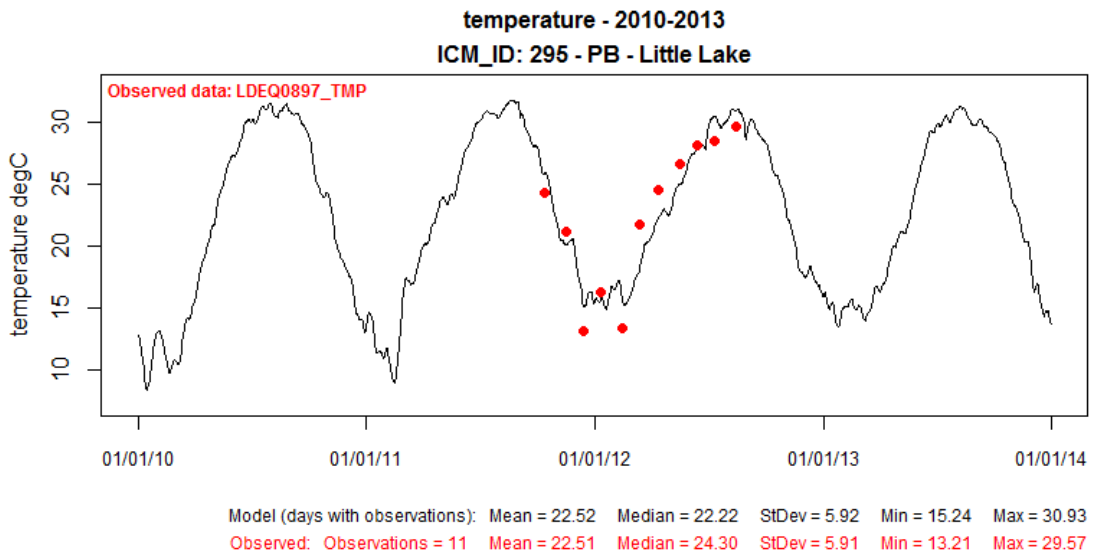

Figure 91: Modeled Temperature (degrees C) at ICM Compartment 295 (solid black line) Compared to Observed Data at LDEQ0897 for Calibration Period, 2010-2013.

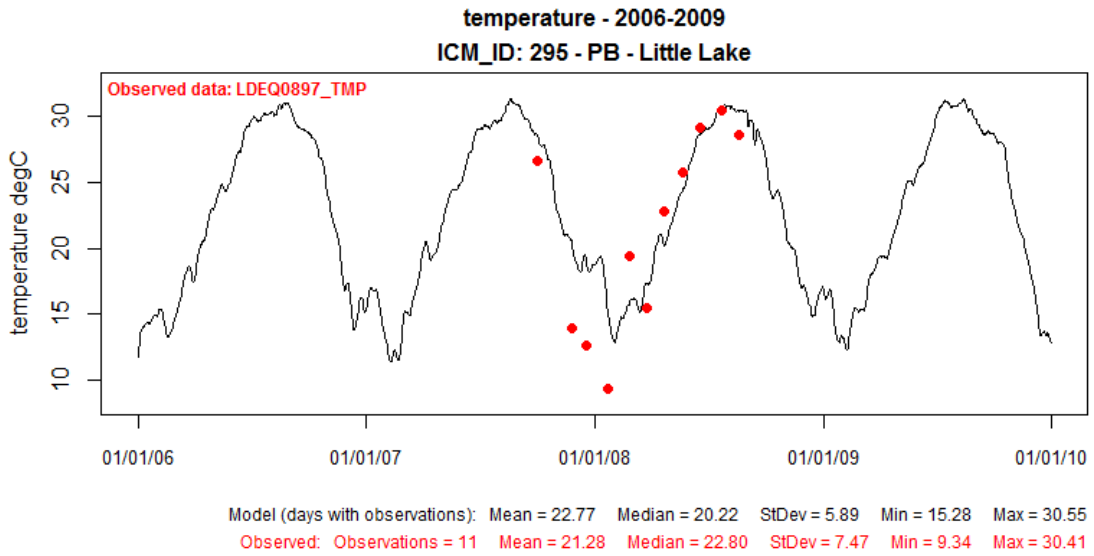

Figure 92: Modeled Temperature (degrees C) at ICM Compartment 295 (solid black line) Compared to Observed Data at LDEQ0897 for Validation Period, 2006-2009.

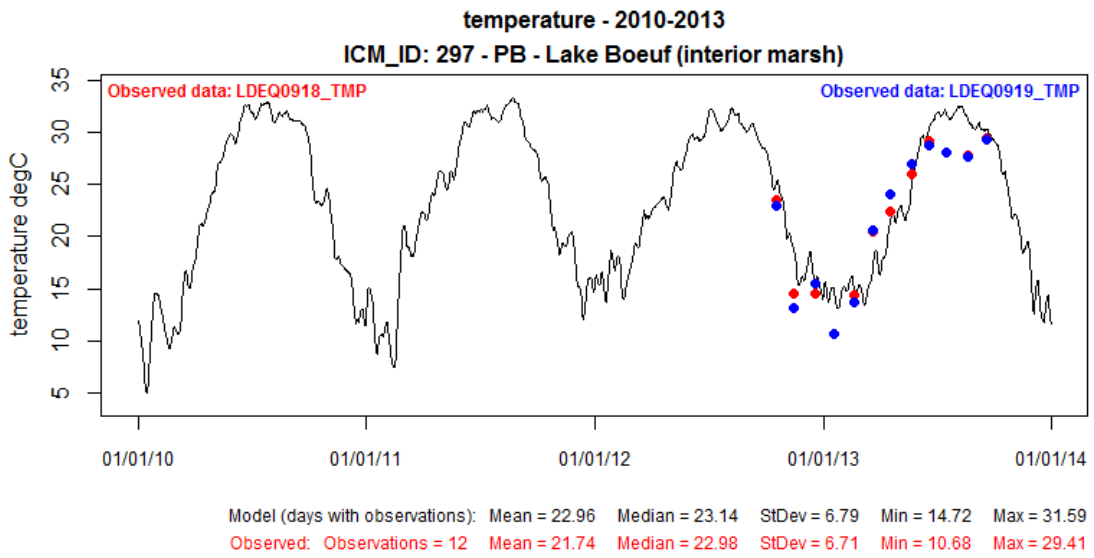

Figure 93: Modeled Temperature (degrees C) at ICM Compartment 297 (solid black line) Compared to Observed Data at LDEQ0918 for Calibration Period, 2010-2013.

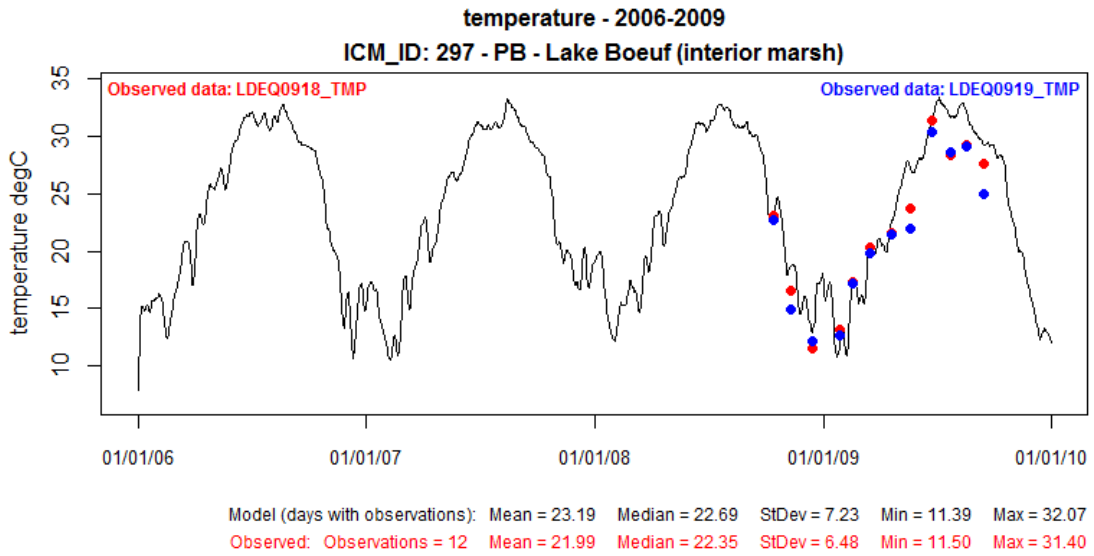

Figure 94: Modeled Temperature (degrees C) at ICM Compartment 297 (solid black line) Compared to Observed Data at LDEQ0918 for Validation Period, 2006-2009.

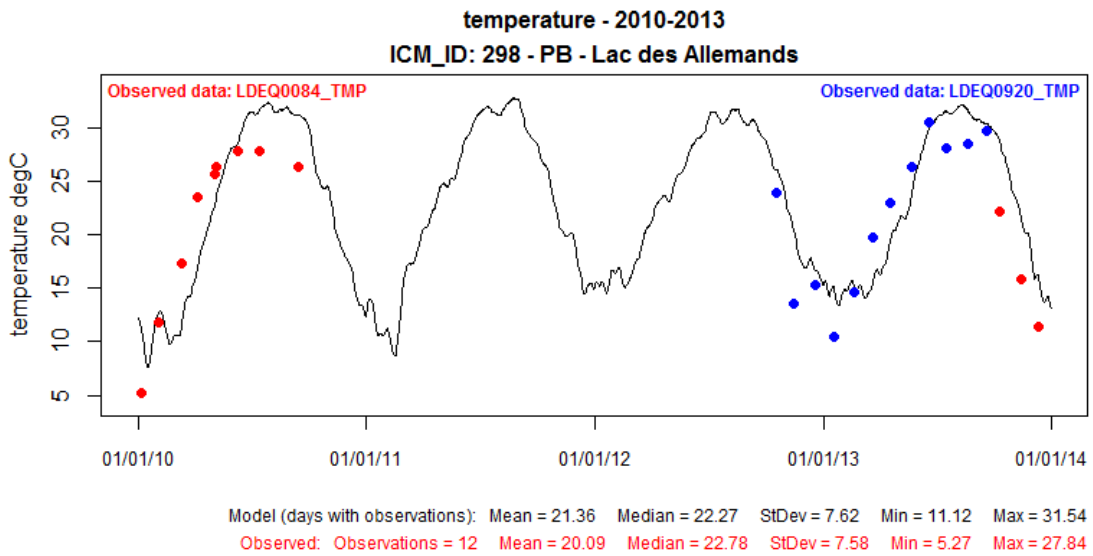

Figure 95: Modeled Temperature (degrees C) at ICM Compartment 298 (solid black line) Compared to Observed Data at LDEQ0084 for Calibration Period, 2010-2013.

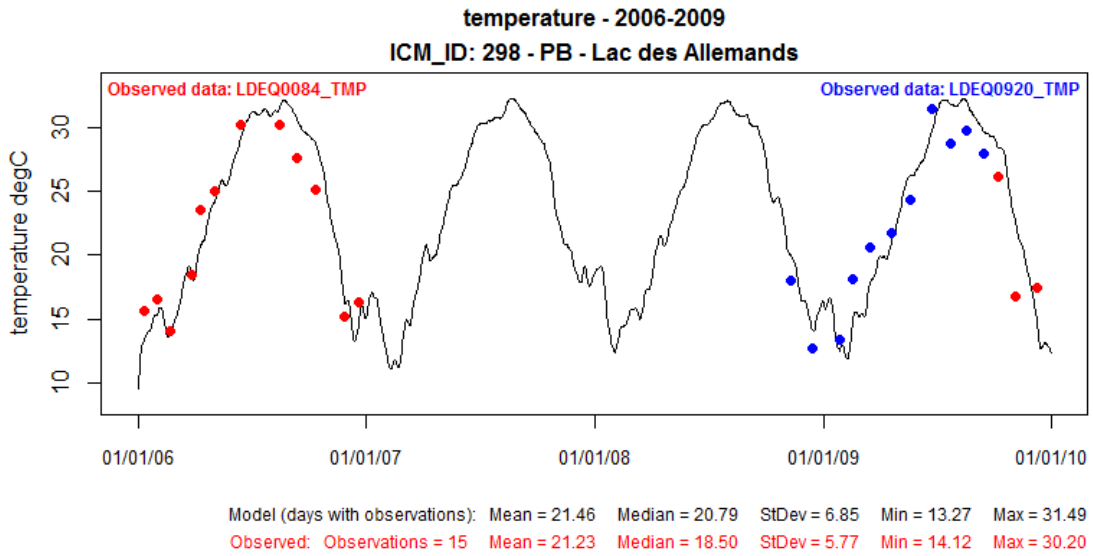

Figure 96: Modeled Temperature (degrees C) at ICM Compartment 298 (solid black line) Compared to Observed Data at LDEQ0084 for Validation Period, 2006-2009.

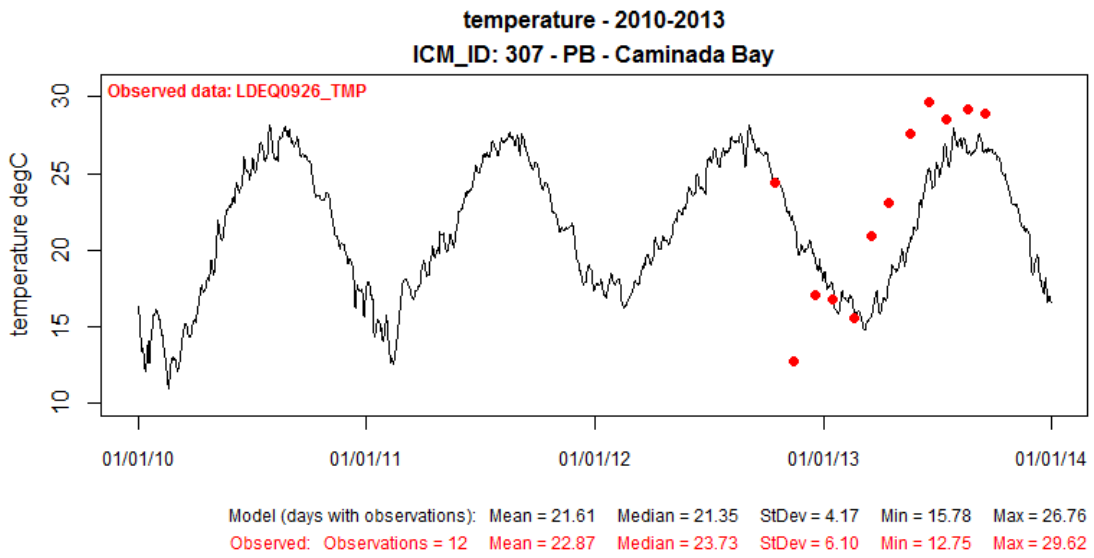

Figure 97: Modeled Temperature (degrees C) at ICM Compartment 307 (solid black line) Compared to Observed Data at LDEQ0926 for Calibration Period, 2010-2013.

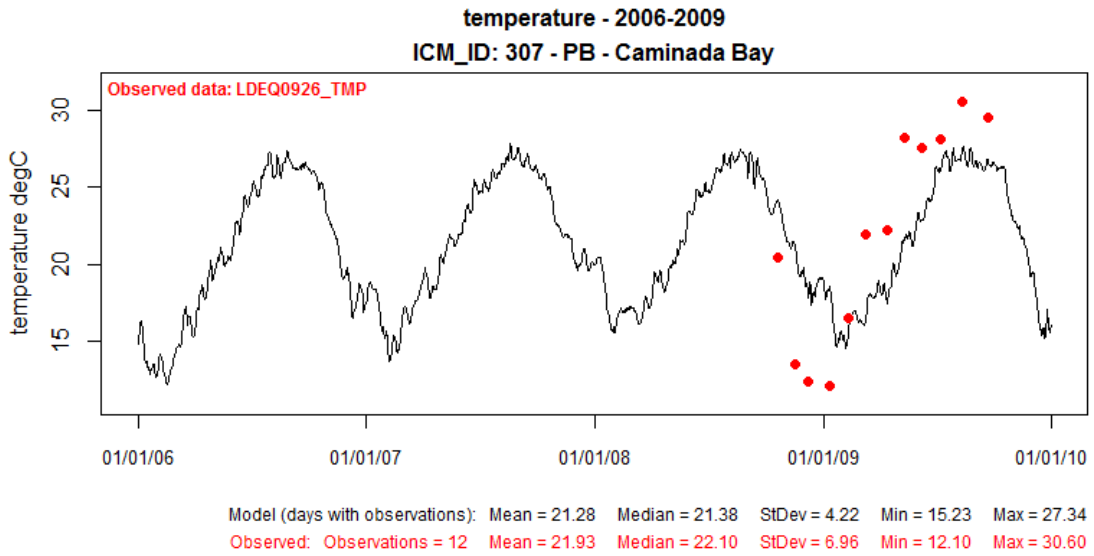

Figure 98: Modeled Temperature (degrees C) at ICM Compartment 307 (solid black line) Compared to Observed Data at LDEQ0926 for Validation Period, 2006-2009.

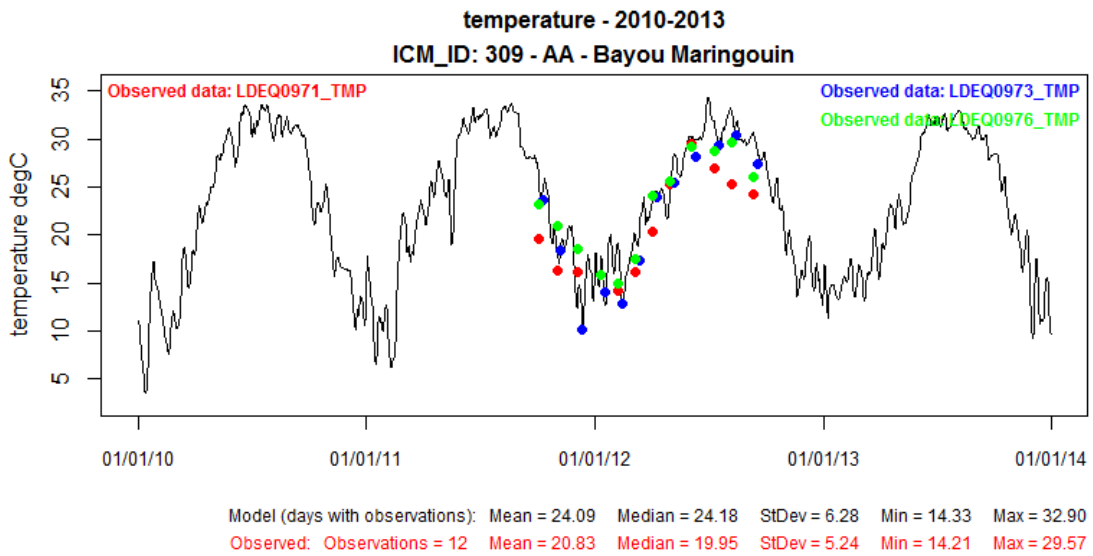

Figure 99: Modeled Temperature (degrees C) at ICM Compartment 309 (solid black line) Compared to Observed Data at LDEQ0971 for Calibration Period, 2010-2013.

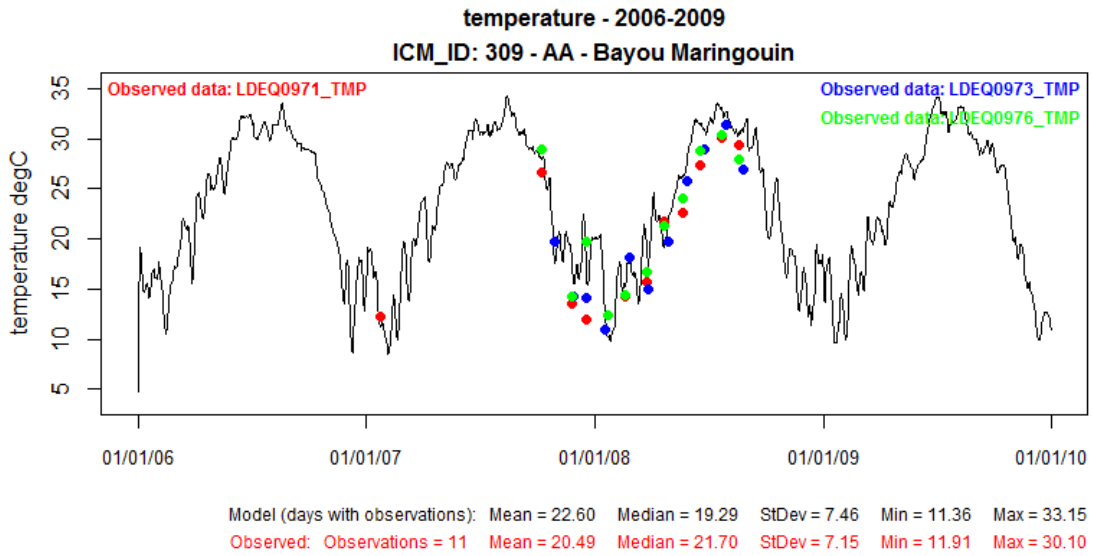

Figure 100: Modeled Temperature (degrees C) at ICM Compartment 309 (solid black line) Compared to Observed Data at LDEQ0971 for Validation Period, 2006-2009.

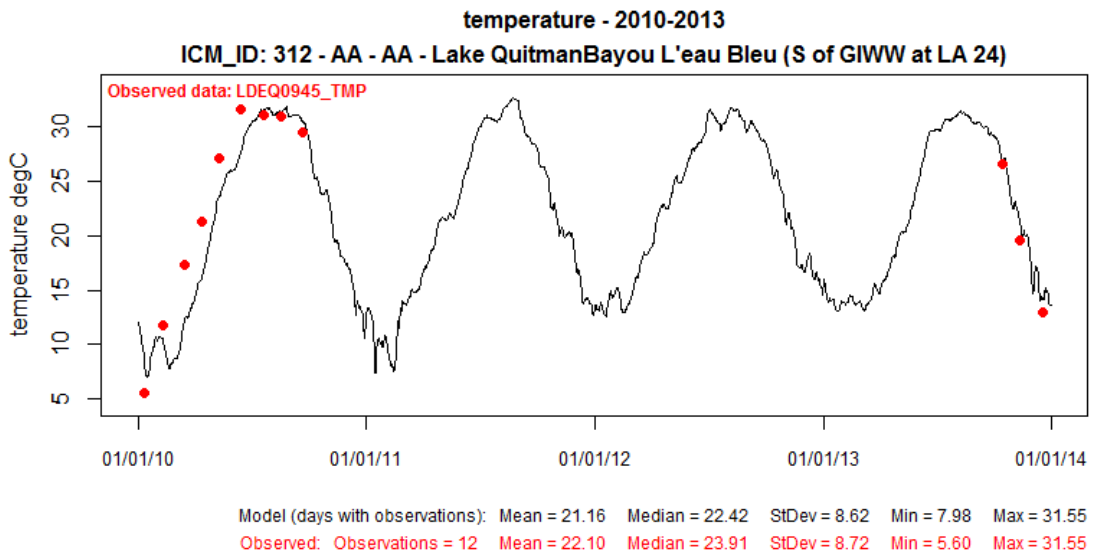

Figure 101: Modeled Temperature (degrees C) at ICM Compartment 312 (solid black line) Compared to Observed Data at LDEQ0945 for Calibration Period, 2010-2013.

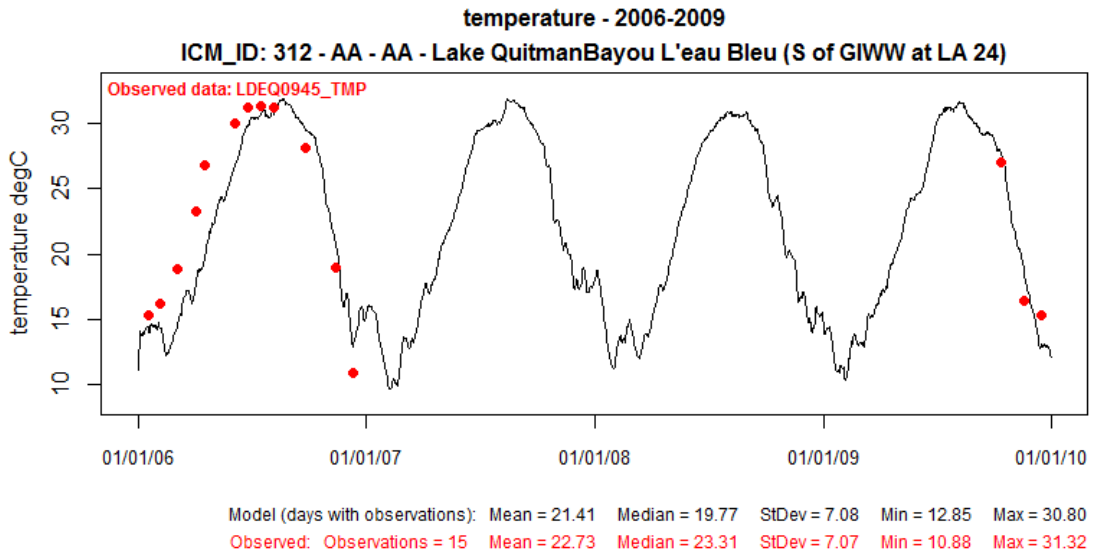

Figure 102: Modeled Temperature (degrees C) at ICM Compartment 312 (solid black line) Compared to Observed Data at LDEQ0945 for Validation Period, 2006-2009.

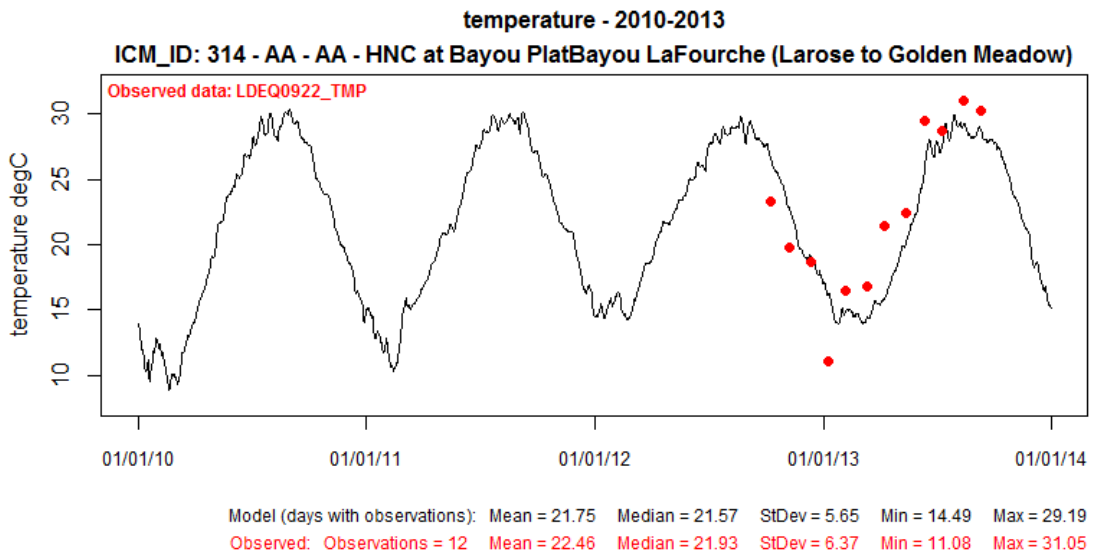

Figure 103: Modeled Temperature (degrees C) at ICM Compartment 314 (solid black line) Compared to Observed Data at LDEQ0922 for Calibration Period, 2010-2013.

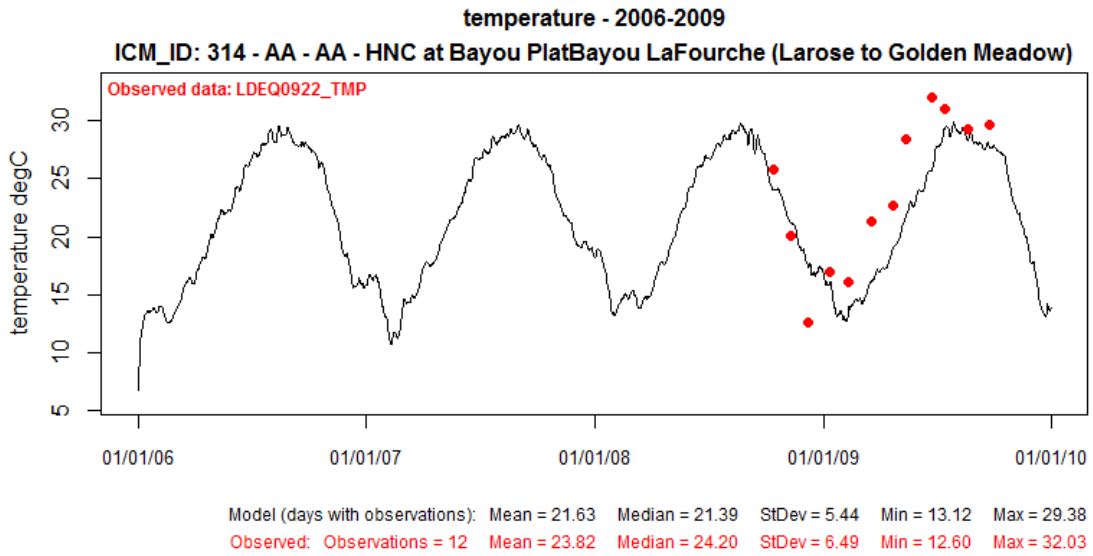

Figure 104: Modeled Temperature (degrees C) at ICM Compartment 314 (solid black line) Compared to Observed Data at LDEQ0922 for Validation Period, 2006-2009.

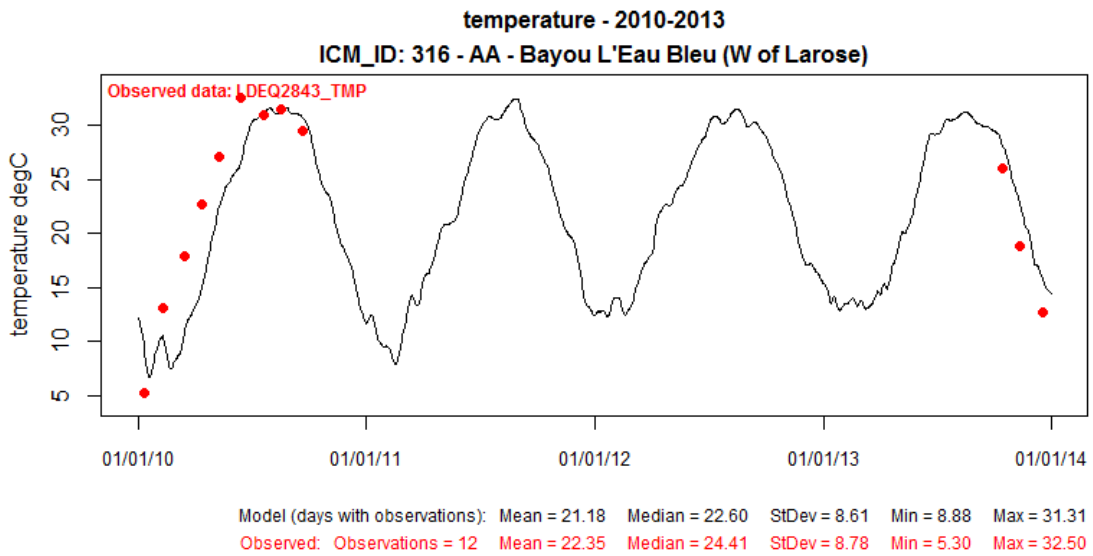

Figure 105: Modeled Temperature (degrees C) at ICM Compartment 316 (solid black line) Compared to Observed Data at LDEQ2843 for Calibration Period, 2010-2013.

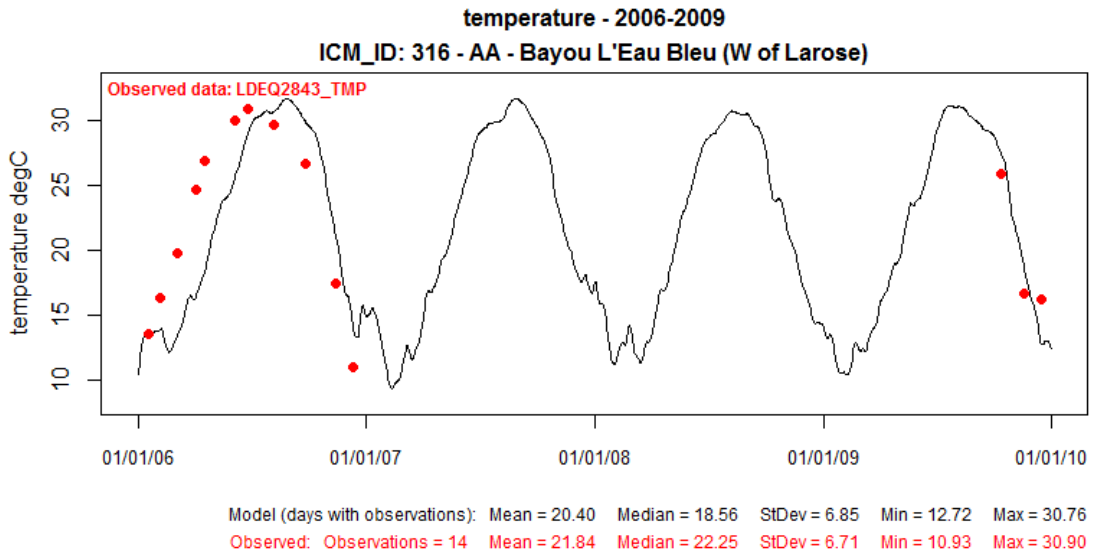

Figure 106: Modeled Temperature (degrees C) at ICM Compartment 316 (solid black line) Compared to Observed Data at LDEQ2843 for Validation Period, 2006-2009.

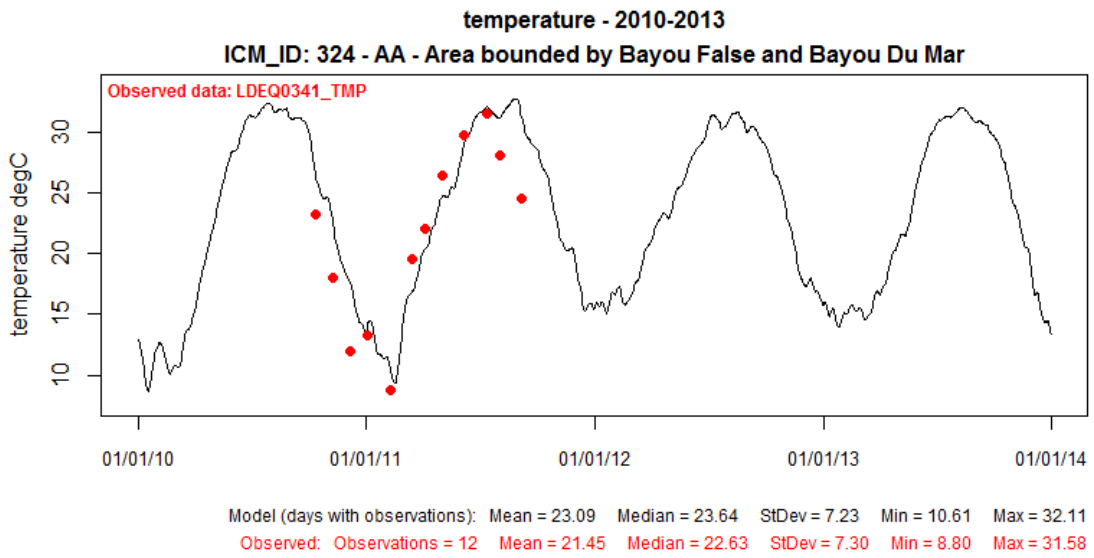

Figure 107: Modeled Temperature (degrees C) at ICM Compartment 324 (solid black line) Compared to Observed Data at LDEQ0341 for Calibration Period, 2010-2013.

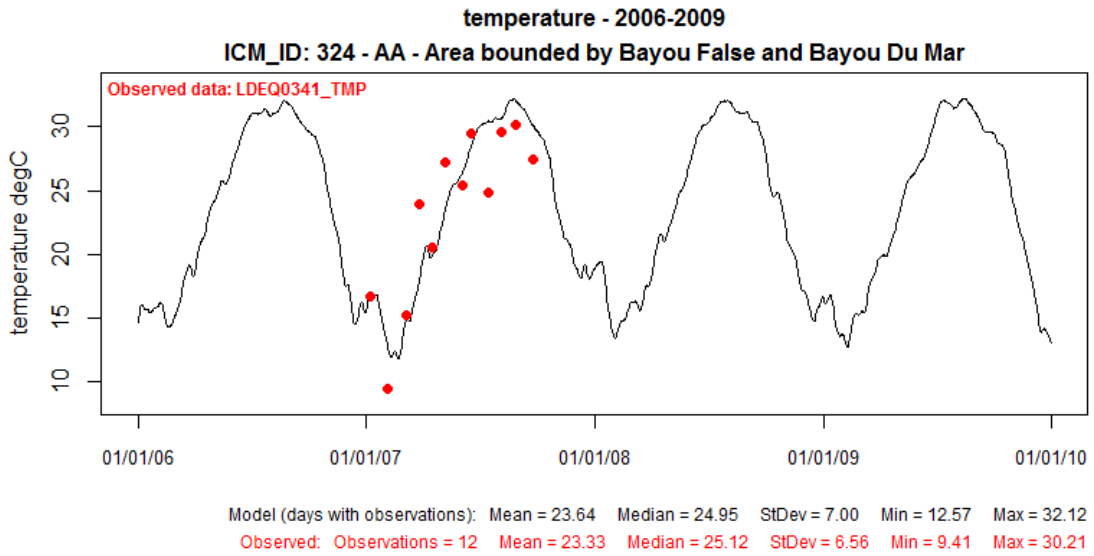

Figure 108: Modeled Temperature (degrees C) at ICM Compartment 324 (solid black line) Compared to Observed Data at LDEQ0341 for Validation Period, 2006-2009.

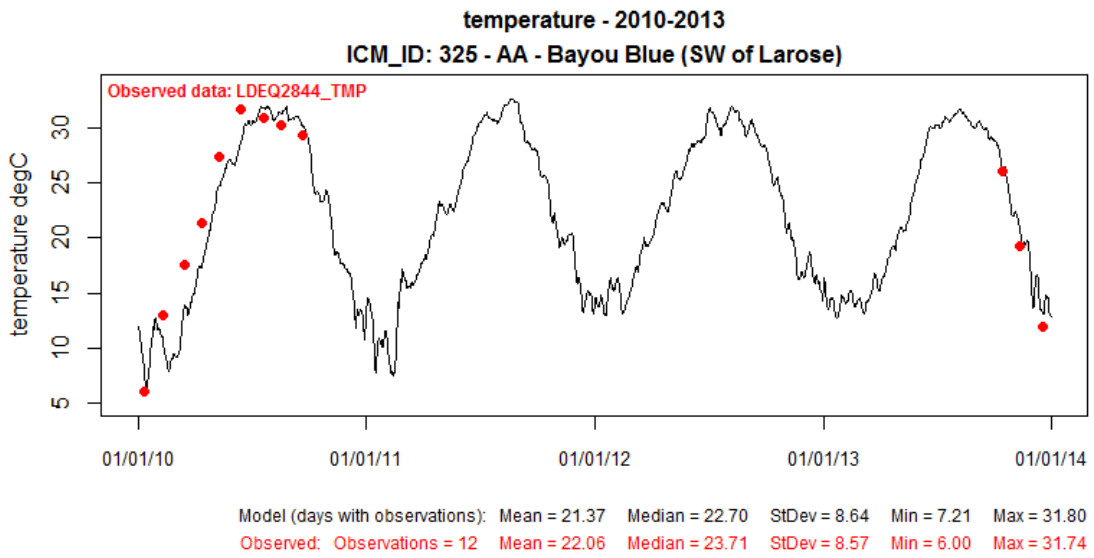

Figure 109: Modeled Temperature (degrees C) at ICM Compartment 325 (solid black line) Compared to Observed Data at LDEQ2844 for Calibration Period, 2010-2013.

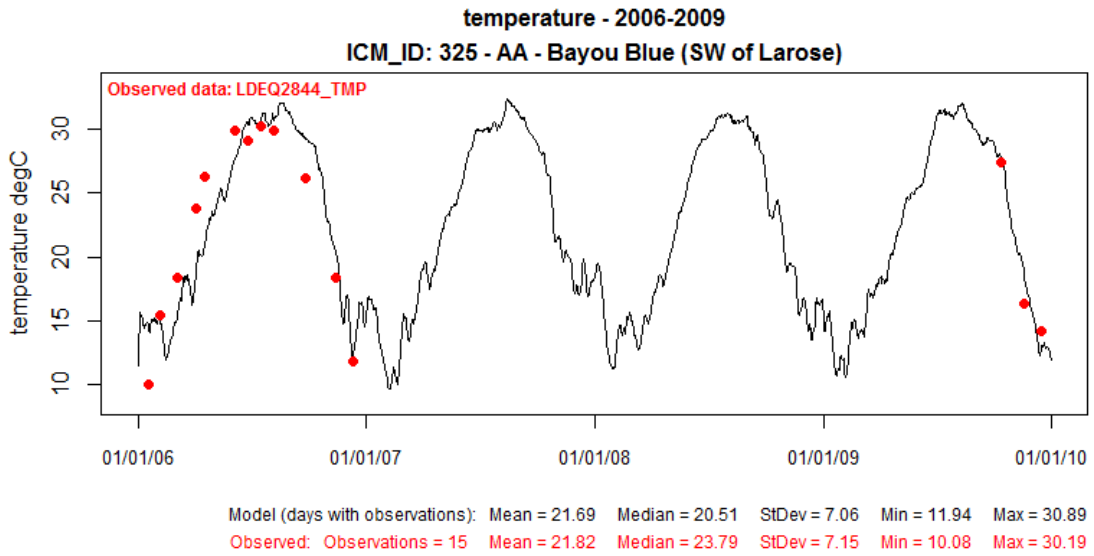

Figure 110: Modeled Temperature (degrees C) at ICM Compartment 325 (solid black line) Compared to Observed Data at LDEQ2844 for Validation Period, 2006-2009.

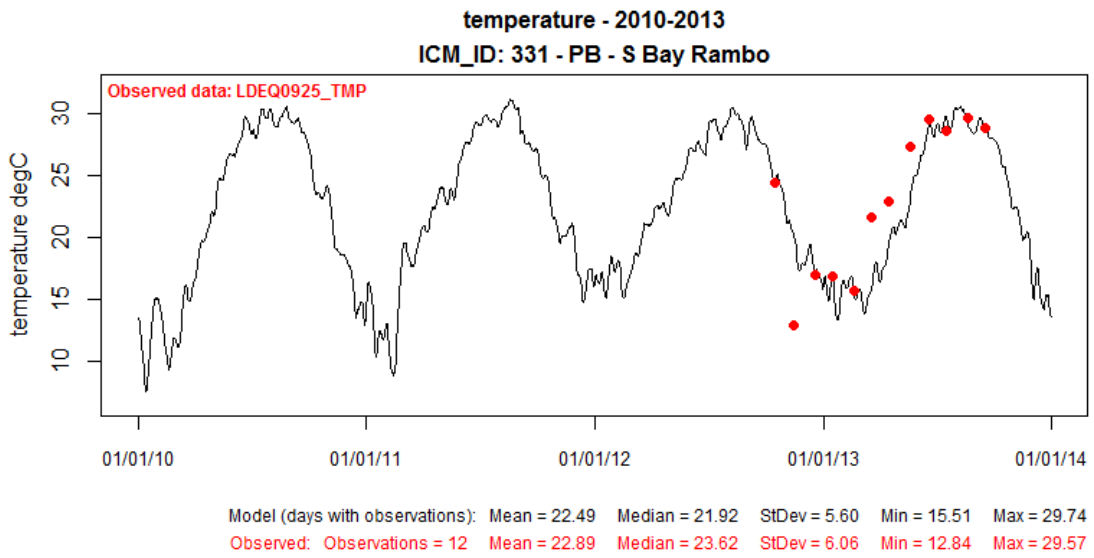

Figure 111: Modeled Temperature (degrees C) at ICM Compartment 331 (solid black line) Compared to Observed Data at LDEQ0925 for Calibration Period, 2010-2013.

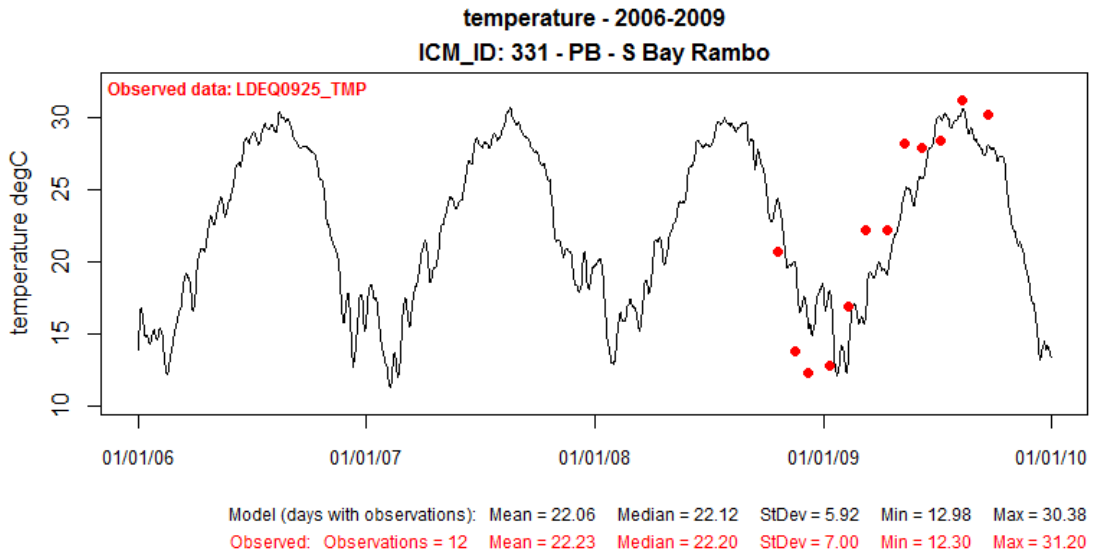

Figure 112: Modeled Temperature (degrees C) at ICM Compartment 331 (solid black line) Compared to Observed Data at LDEQ0925 for Validation Period, 2006-2009.

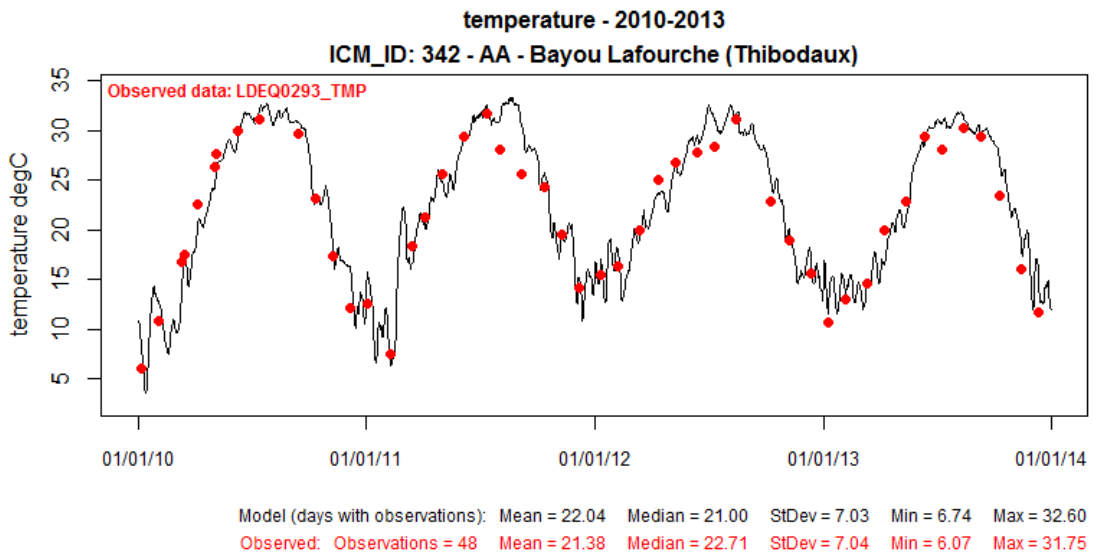

Figure 113: Modeled Temperature (degrees C) at ICM Compartment 342 (solid black line) Compared to Observed Data at LDEQ0293 for Calibration Period, 2010-2013.

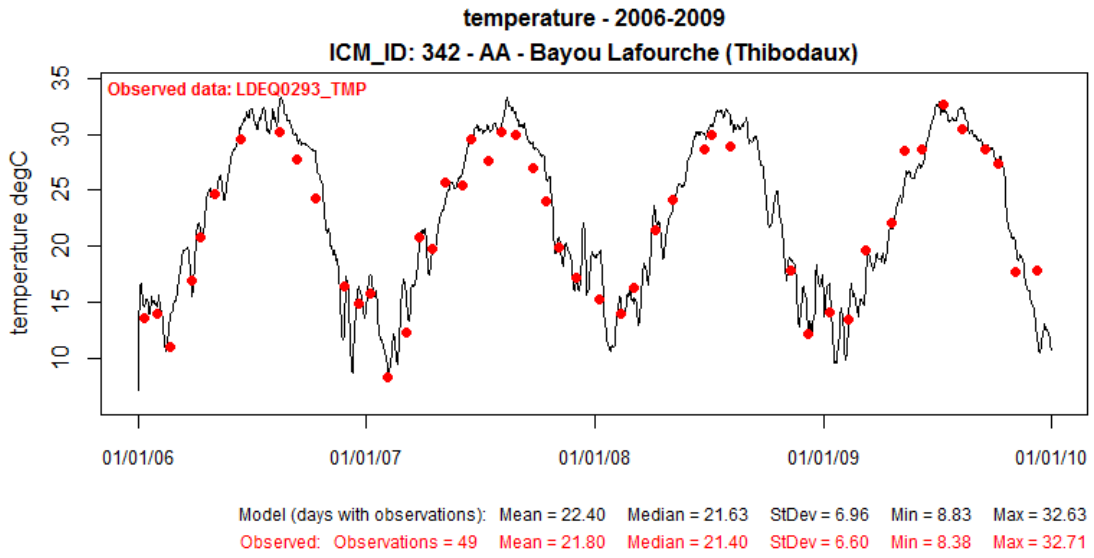

Figure 114: Modeled Temperature (degrees C) at ICM Compartment 342 (solid black line) Compared to Observed Data at LDEQ0293 for Validation Period, 2006-2009.

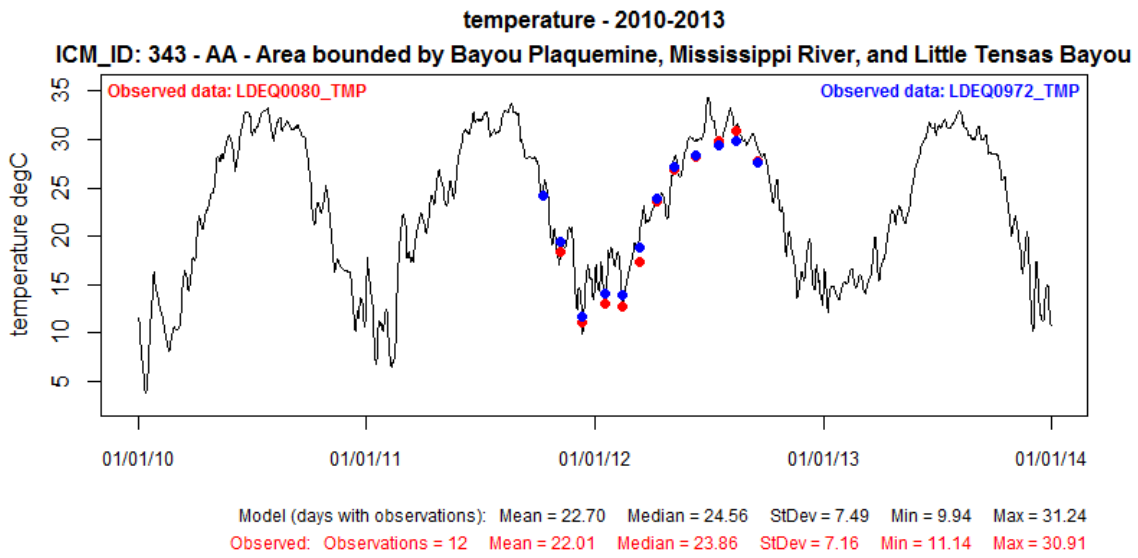

Figure 115: Modeled Temperature (degrees C) at ICM Compartment 343 (solid black line) Compared to Observed Data at LDEQ0080 for Calibration Period, 2010-2013.

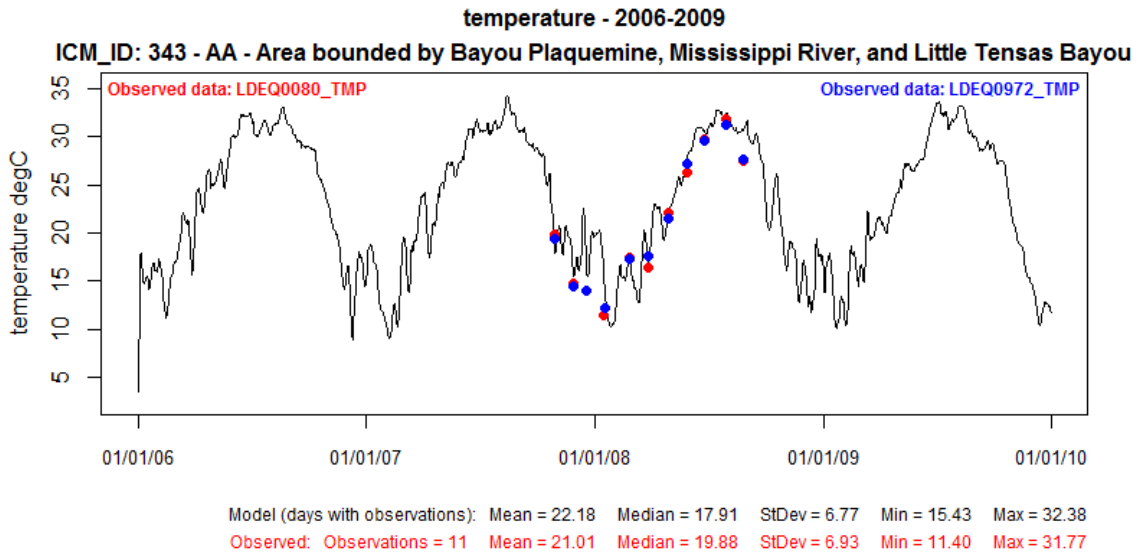

Figure 116: Modeled Temperature (degrees C) at ICM Compartment 343 (solid black line) Compared to Observed Data at LDEQ0080 for Validation Period, 2006-2009.

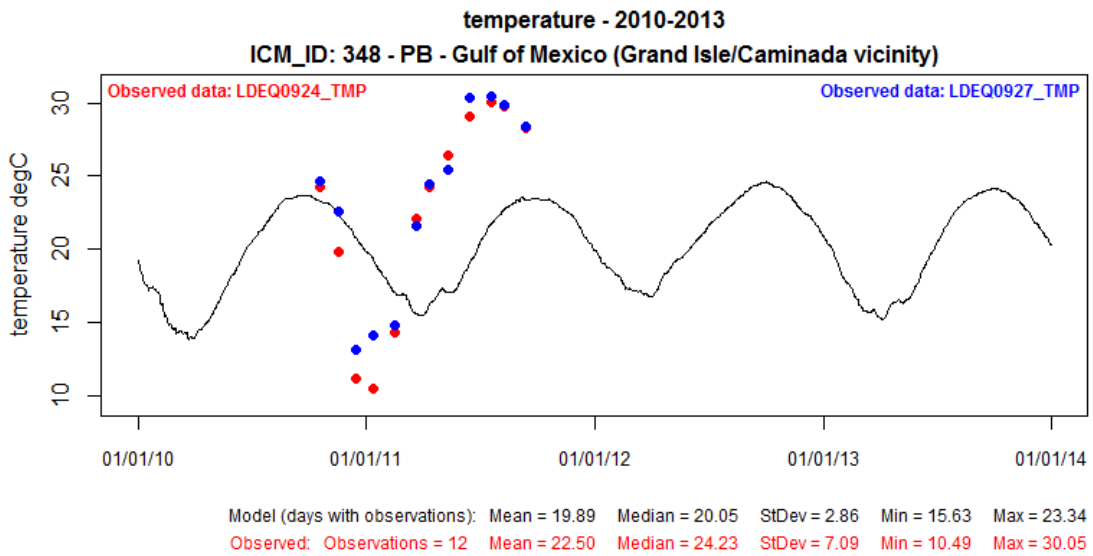

Figure 117: Modeled Temperature (degrees C) at ICM Compartment 348 (solid black line) Compared to Observed Data at LDEQ0924 for Calibration Period, 2010-2013.

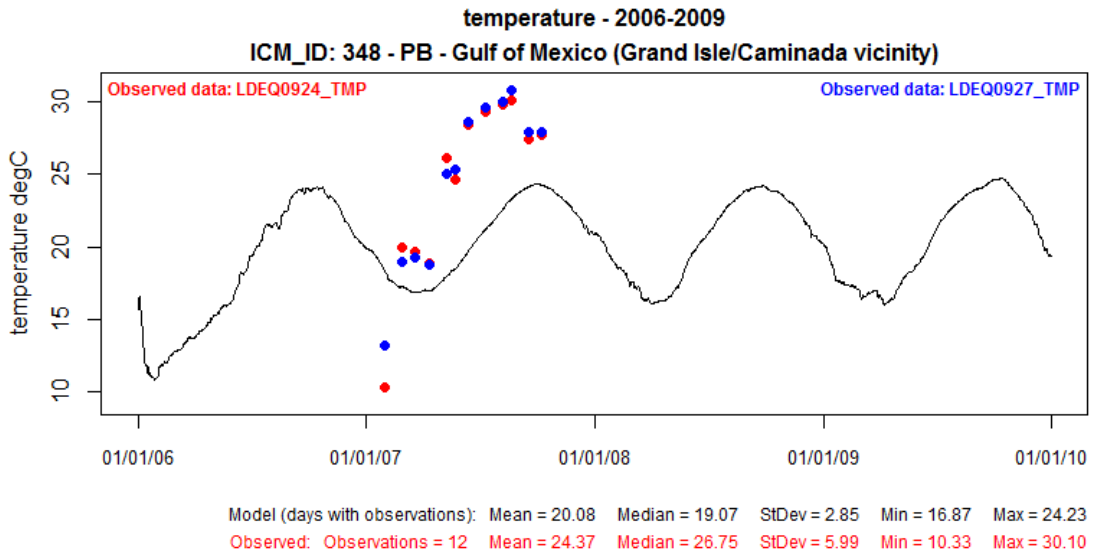

Figure 118: Modeled Temperature (degrees C) at ICM Compartment 348 (solid black line) Compared to Observed Data at LDEQ0924 for Validation Period, 2006-2009.

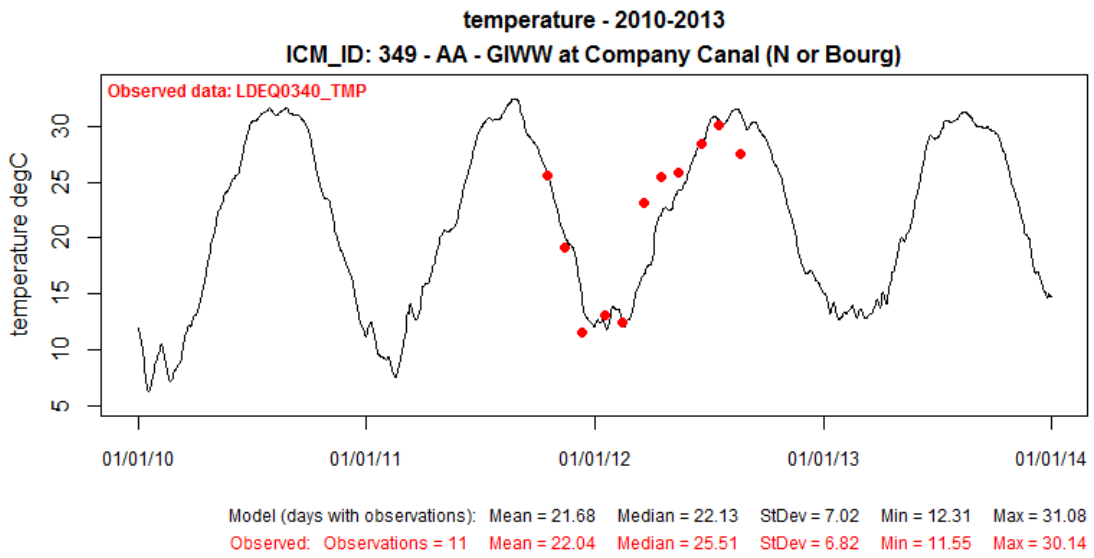

Figure 119: Modeled Temperature (degrees C) at ICM Compartment 349 (solid black line) Compared to Observed Data at LDEQ0340 for Calibration Period, 2010-2013.

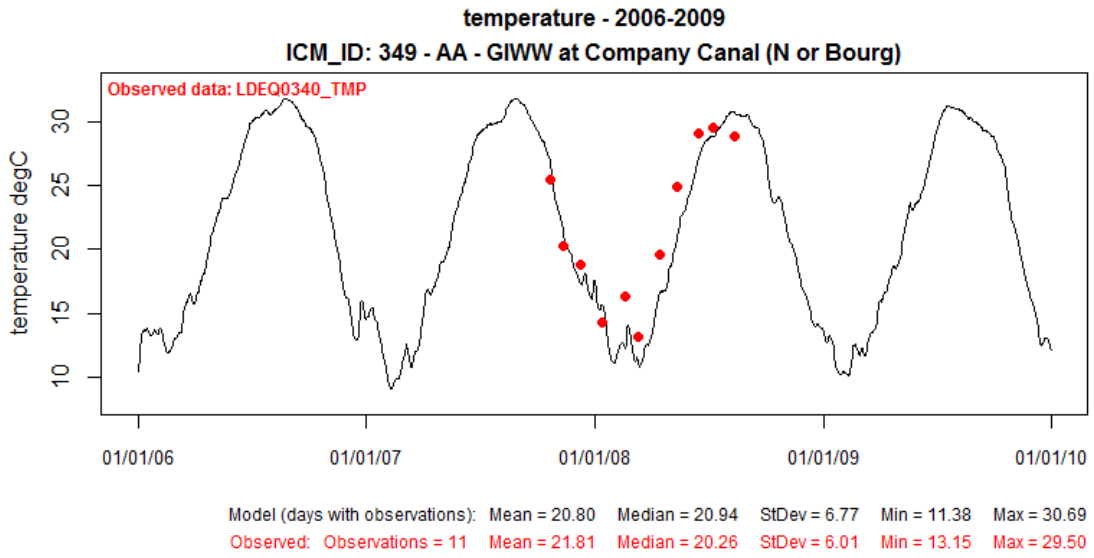

Figure 120: Modeled Temperature (degrees C) at ICM Compartment 349 (solid black line) Compared to Observed Data at LDEQ0340 for Validation Period, 2006-2009.

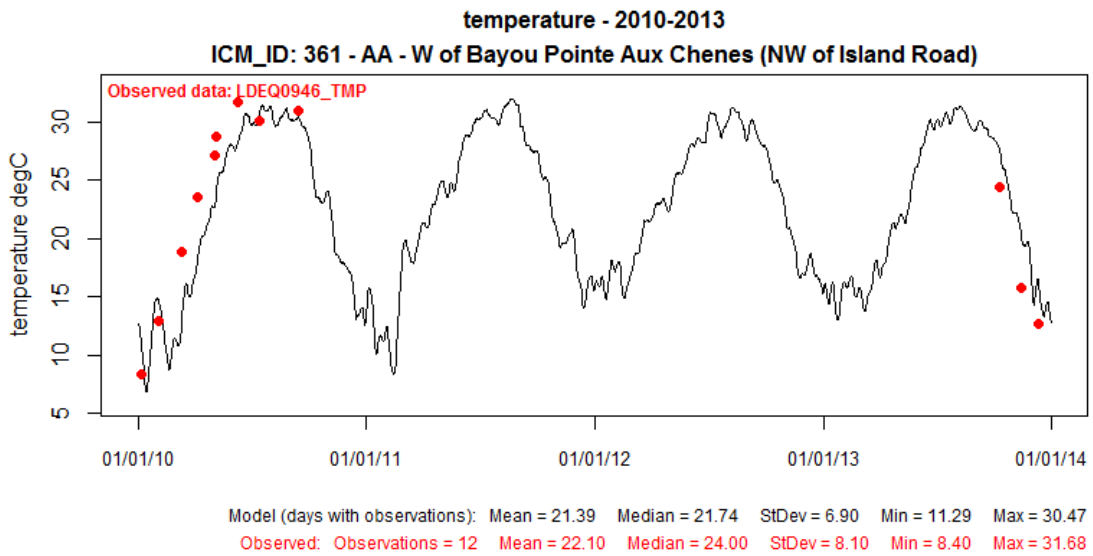

Figure 121: Modeled Temperature (degrees C) at ICM Compartment 361 (solid black line) Compared to Observed Data at LDEQ0946 for Calibration Period, 2010-2013.

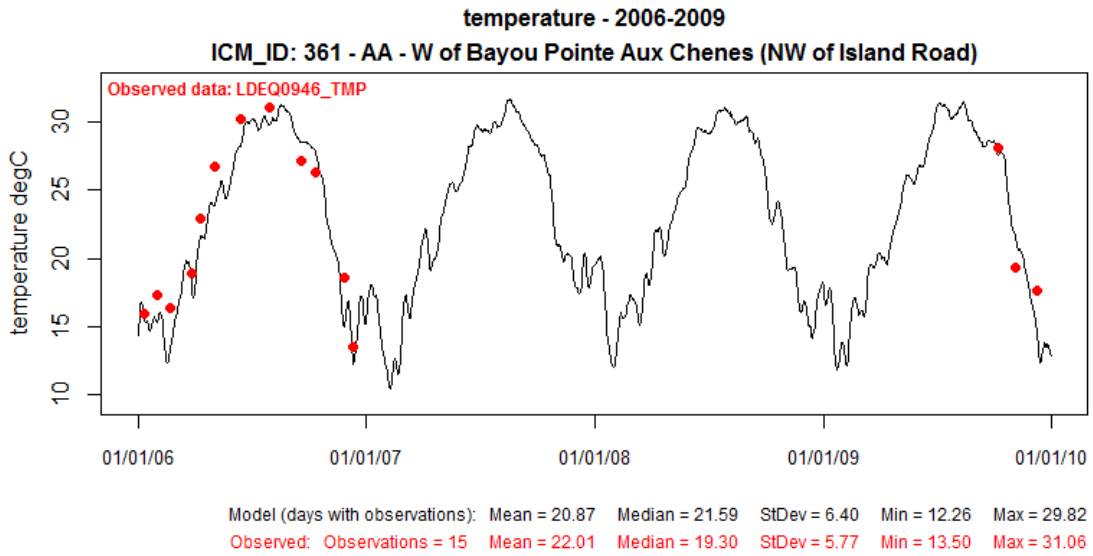

Figure 122: Modeled Temperature (degrees C) at ICM Compartment 361 (solid black line) Compared to Observed Data at LDEQ0946 for Validation Period, 2006-2009.

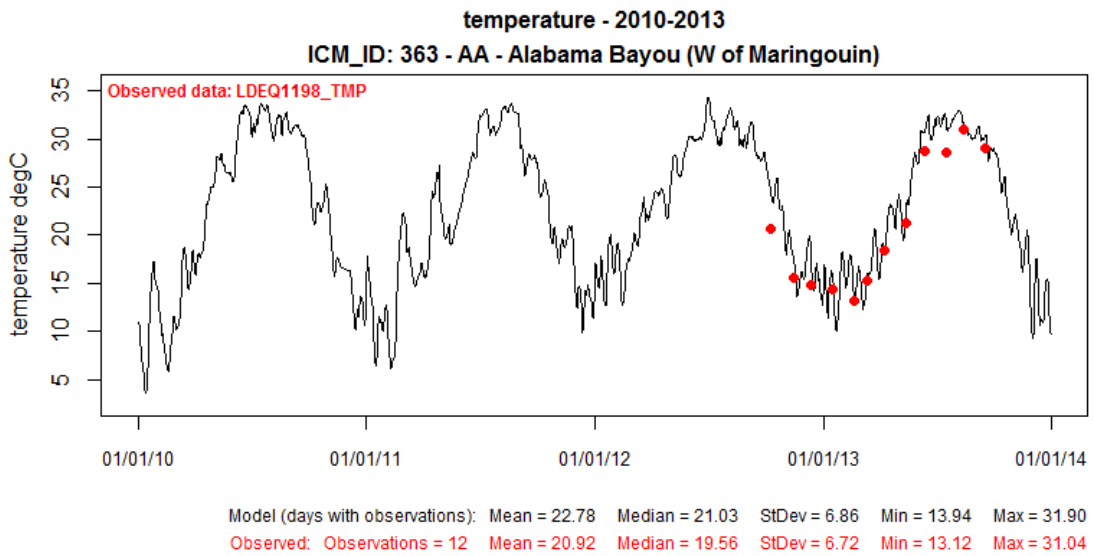

Figure 123: Modeled Temperature (degrees C) at ICM Compartment 363 (solid black line) Compared to Observed Data at LDEQ1198 for Calibration Period, 2010-2013.

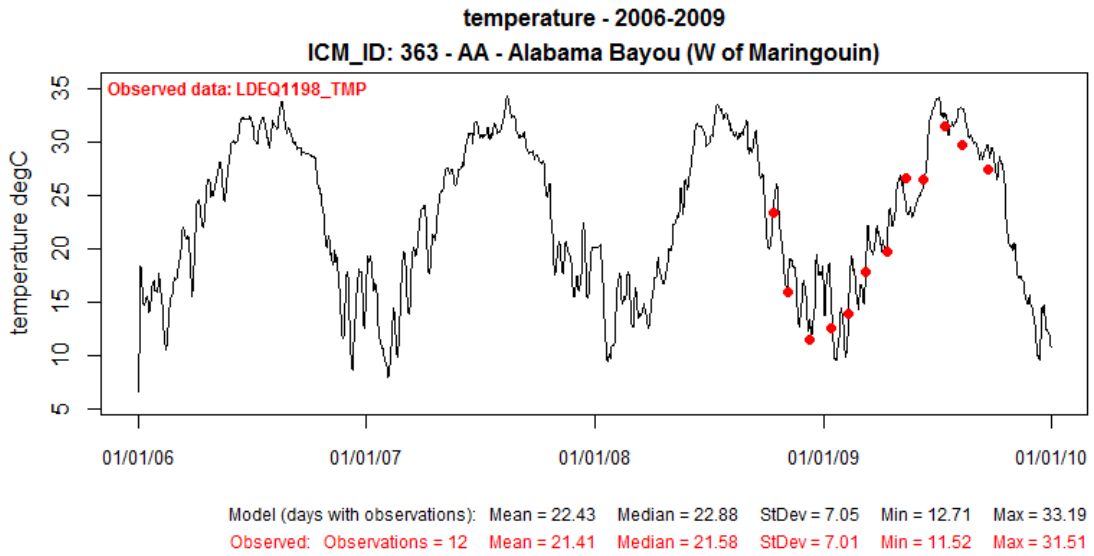

Figure 124: Modeled Temperature (degrees C) at ICM Compartment 363 (solid black line) Compared to Observed Data at LDEQ1198 for Validation Period, 2006-2009.

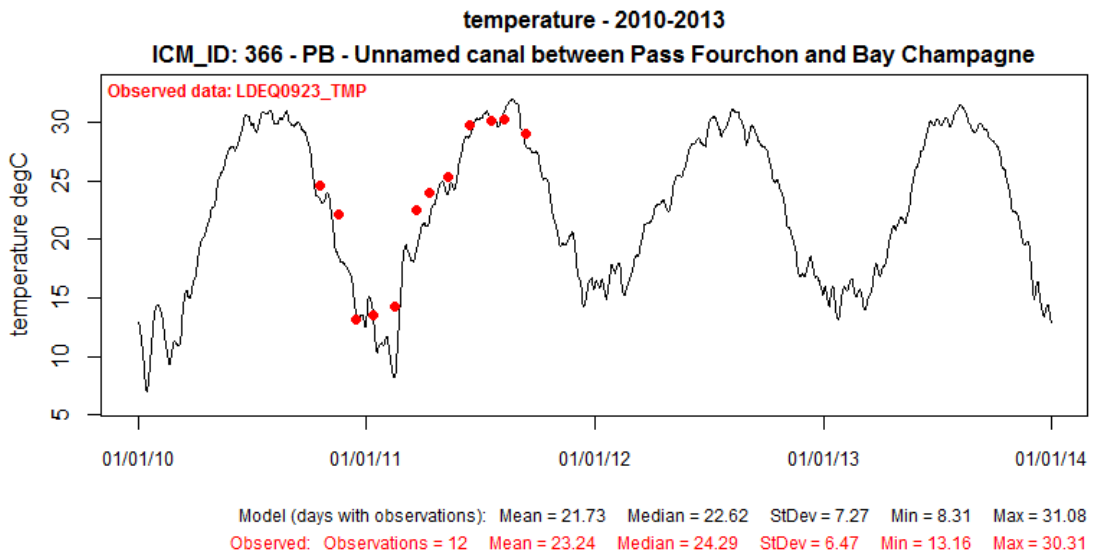

Figure 125: Modeled Temperature (degrees C) at ICM Compartment 366 (solid black line) Compared to Observed Data at LDEQ0923 for Calibration Period, 2010-2013.

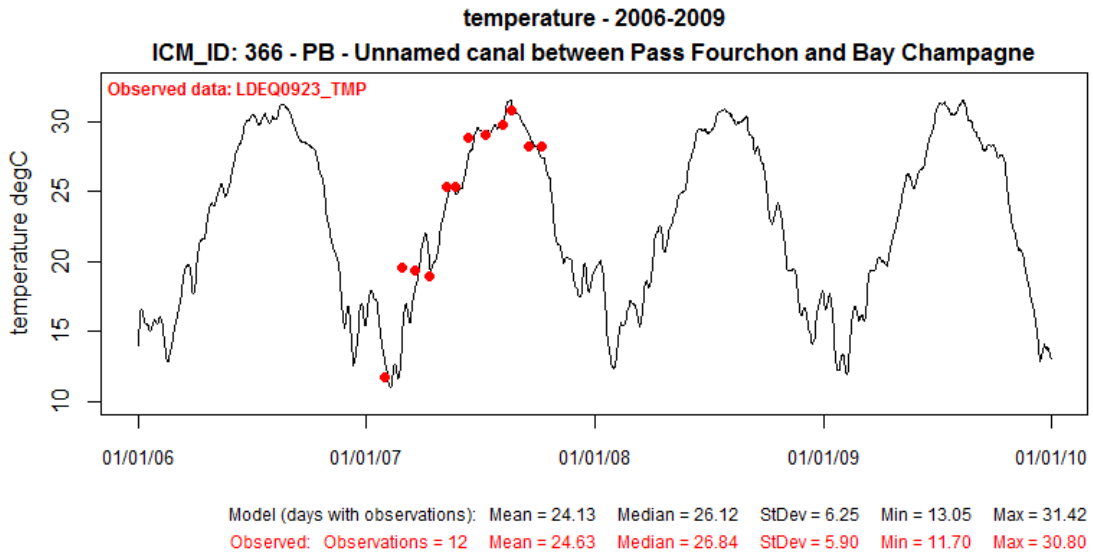

Figure 126: Modeled Temperature (degrees C) at ICM Compartment 366 (solid black line) Compared to Observed Data at LDEQ0923 for Validation Period, 2006-2009.

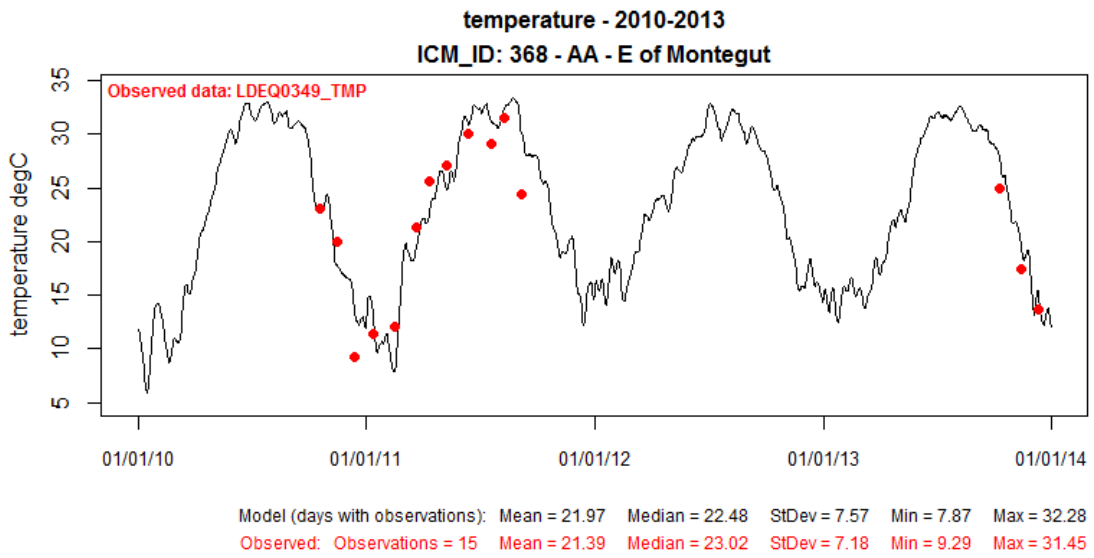

Figure 127: Modeled Temperature (degrees C) at ICM Compartment 368 (solid black line) Compared to Observed Data at LDEQ0349 for Calibration Period, 2010-2013.

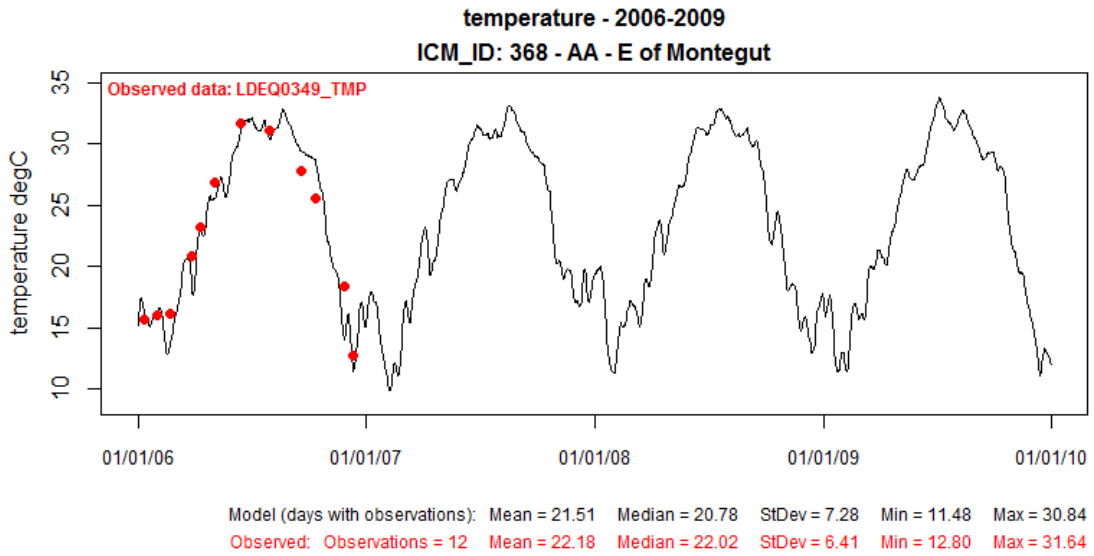

Figure 128: Modeled Temperature (degrees C) at ICM Compartment 368 (solid black line) Compared to Observed Data at LDEQ0349 for Validation Period, 2006-2009.

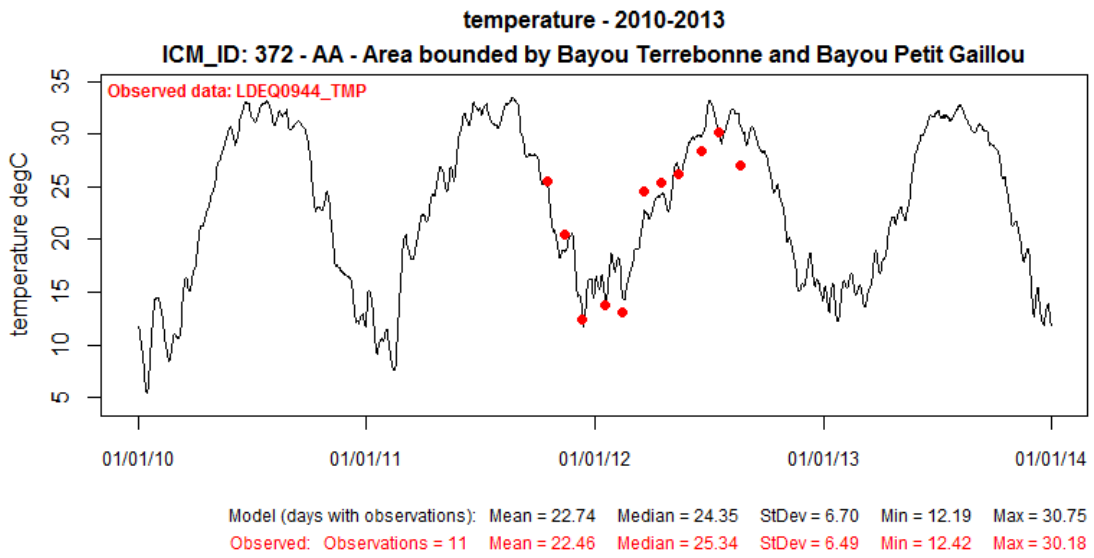

Figure 129: Modeled Temperature (degrees C) at ICM Compartment 372 (solid black line) Compared to Observed Data at LDEQ0944 for Calibration Period, 2010-2013.

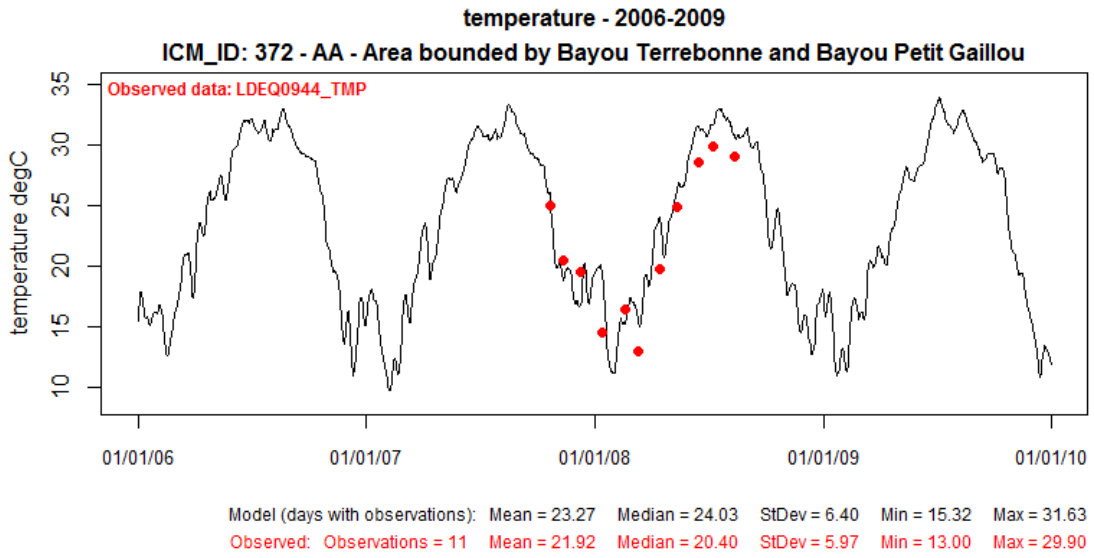

Figure 130: Modeled Temperature (degrees C) at ICM Compartment 372 (solid black line) Compared to Observed Data at LDEQ0944 for Validation Period, 2006-2009.

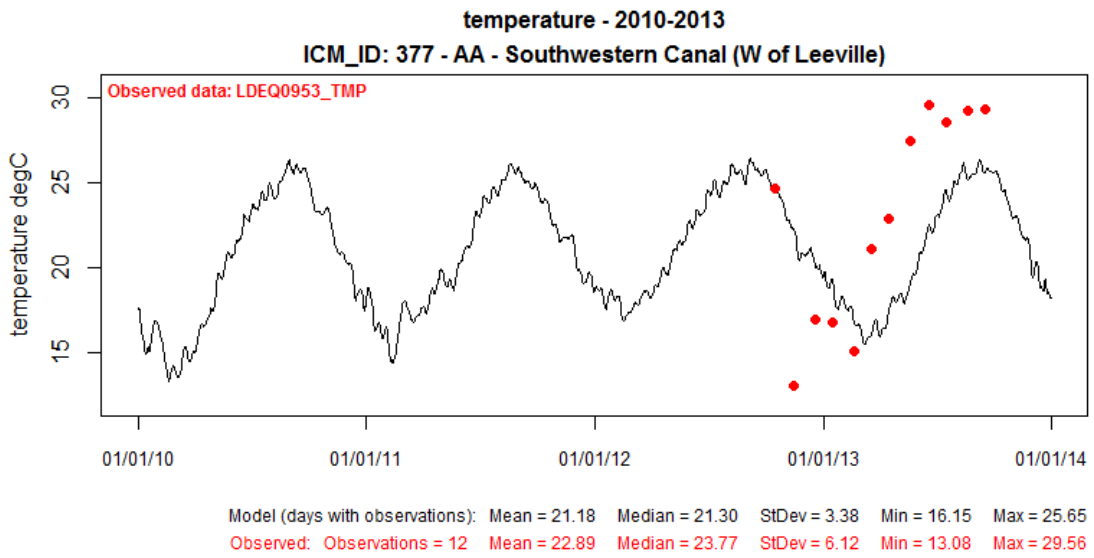

Figure 131: Modeled Temperature (degrees C) at ICM Compartment 377 (solid black line) Compared to Observed Data at LDEQ0953 for Calibration Period, 2010-2013.

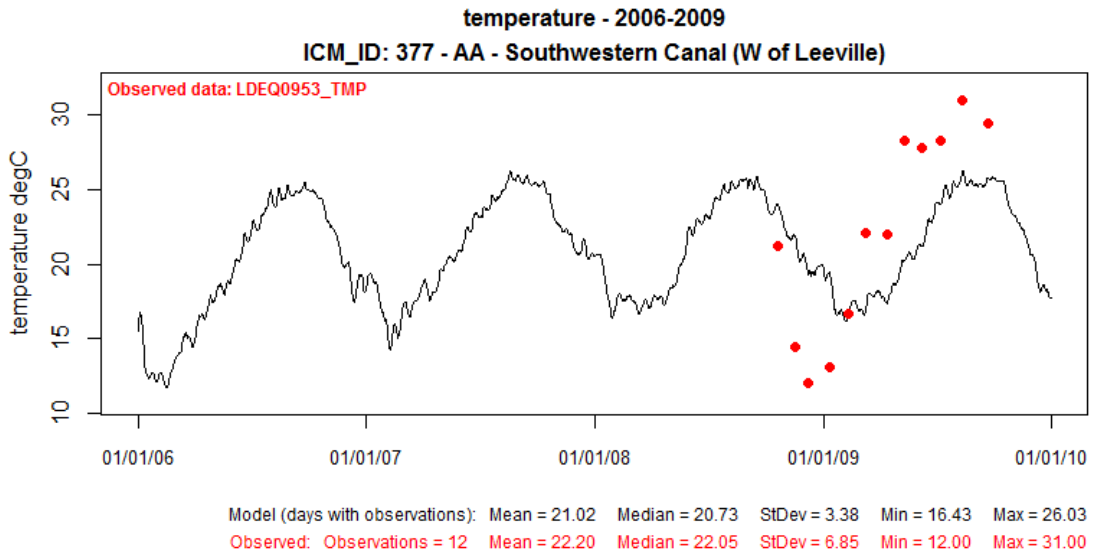

Figure 132: Modeled Temperature (degrees C) at ICM Compartment 377 (solid black line) Compared to Observed Data at LDEQ0953 for Validation Period, 2006-2009.

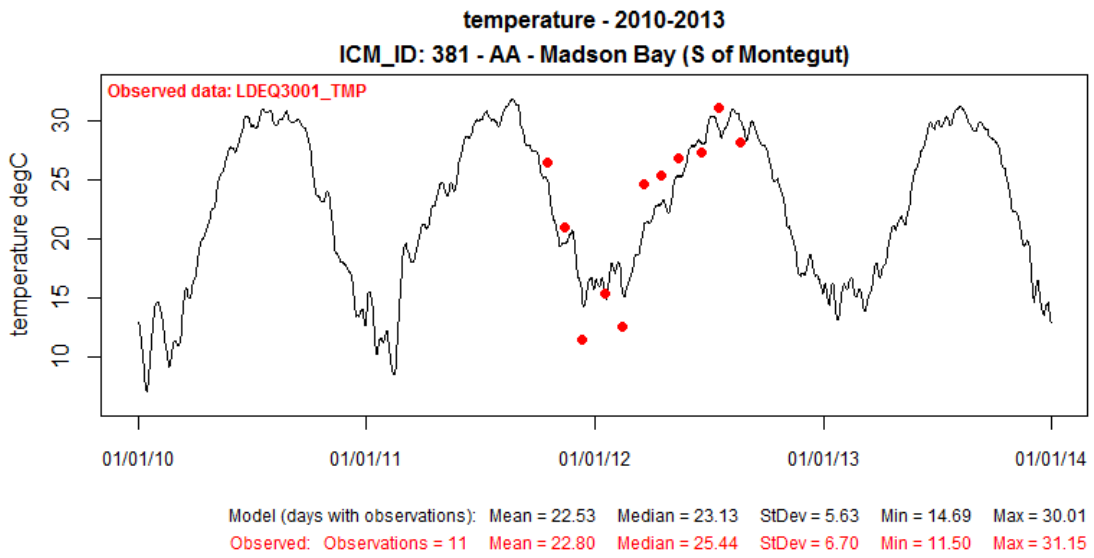

Figure 133: Modeled Temperature (degrees C) at ICM Compartment 381 (solid black line) Compared to Observed Data at LDEQ3001 for Calibration Period, 2010-2013.

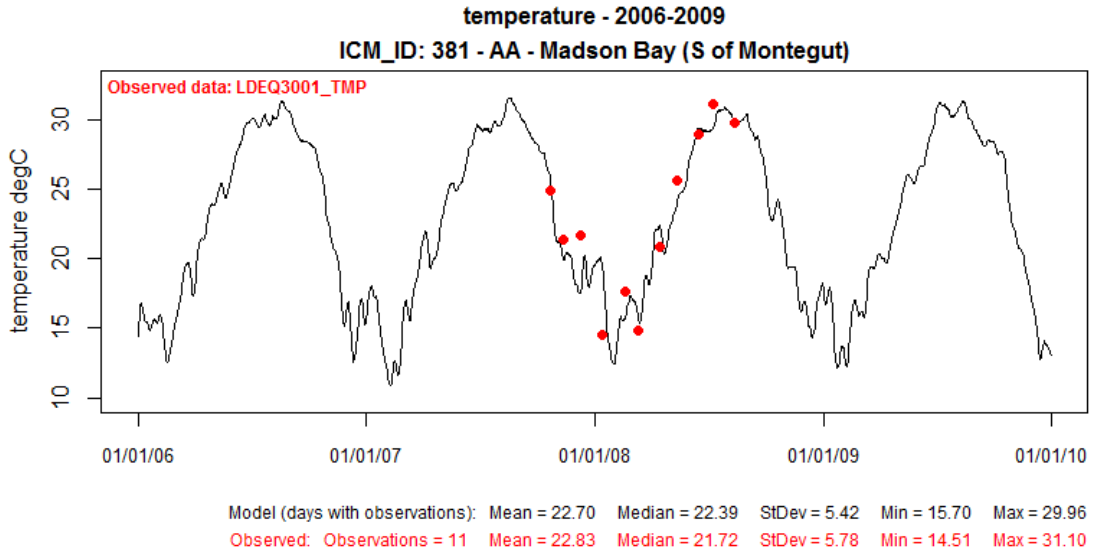

Figure 134: Modeled Temperature (degrees C) at ICM Compartment 381 (solid black line) Compared to Observed Data at LDEQ3001 for Validation Period, 2006-2009.

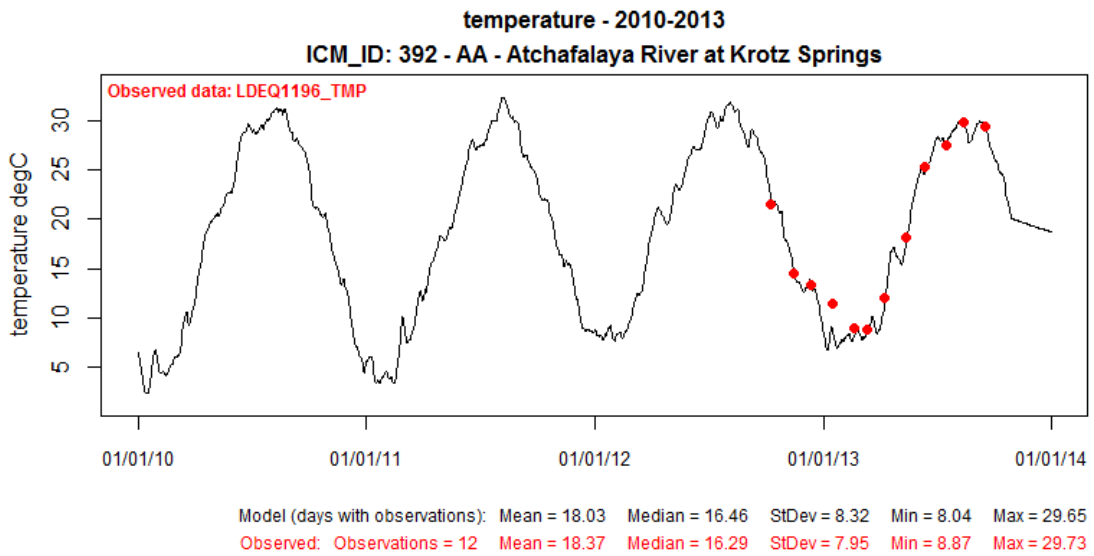

Figure 135: Modeled Temperature (degrees C) at ICM Compartment 392 (solid black line) Compared to Observed Data at LDEQ1196 for Calibration Period, 2010-2013.

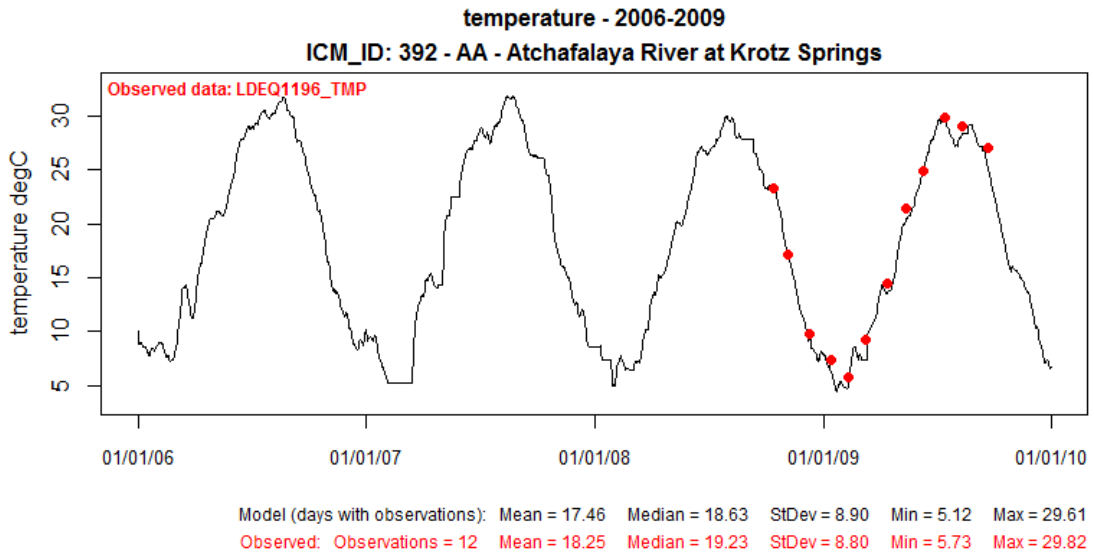

Figure 136: Modeled Temperature (degrees C) at ICM Compartment 392 (solid black line) Compared to Observed Data at LDEQ1196 for Validation Period, 2006-2009.

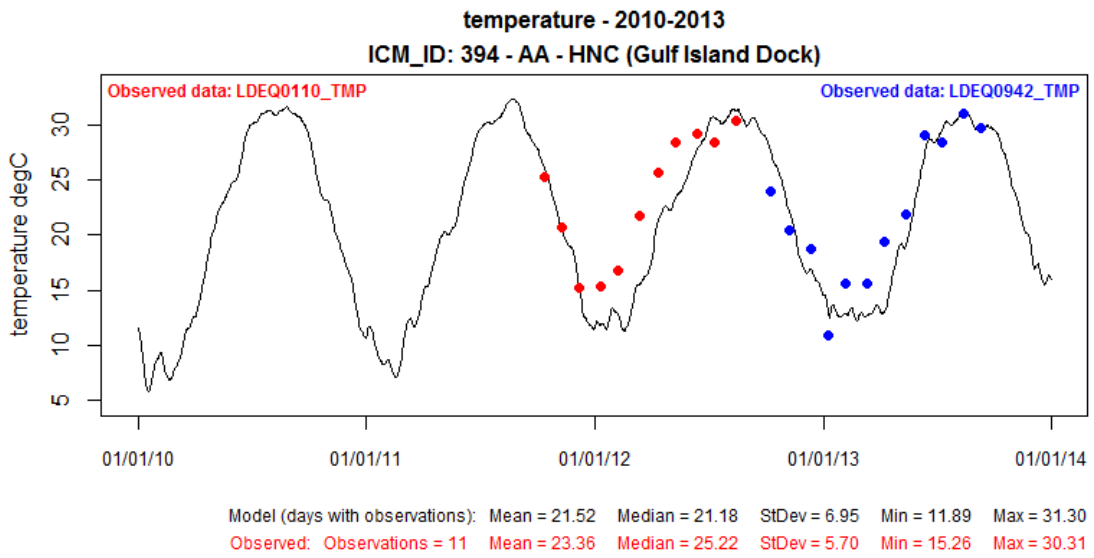

Figure 137: Modeled Temperature (degrees C) at ICM Compartment 394 (solid black line) Compared to Observed Data at LDEQ0110 for Calibration Period, 2010-2013.

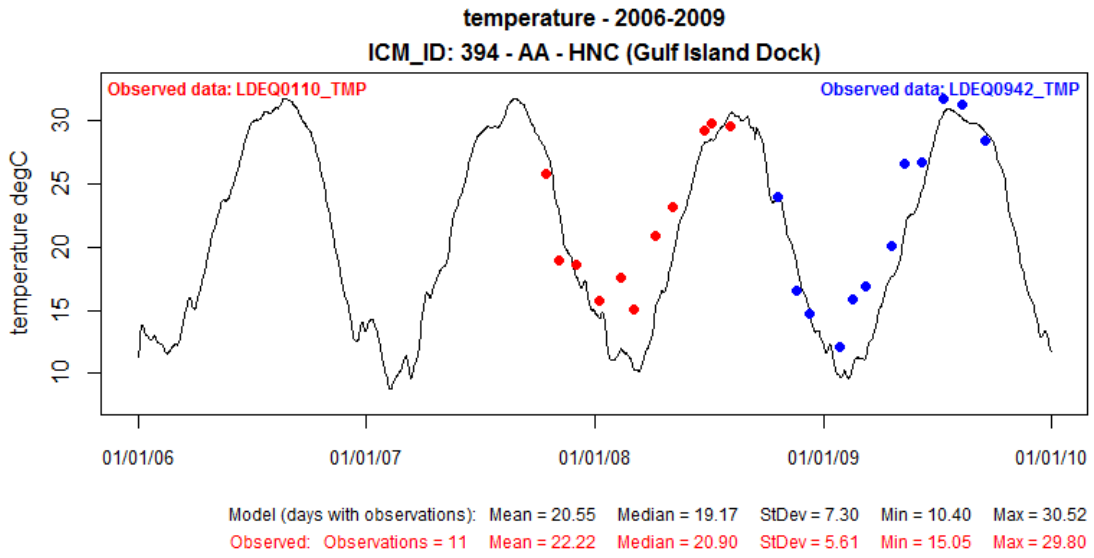

Figure 138: Modeled Temperature (degrees C) at ICM Compartment 394 (solid black line) Compared to Observed Data at LDEQ0110 for Validation Period, 2006-2009.

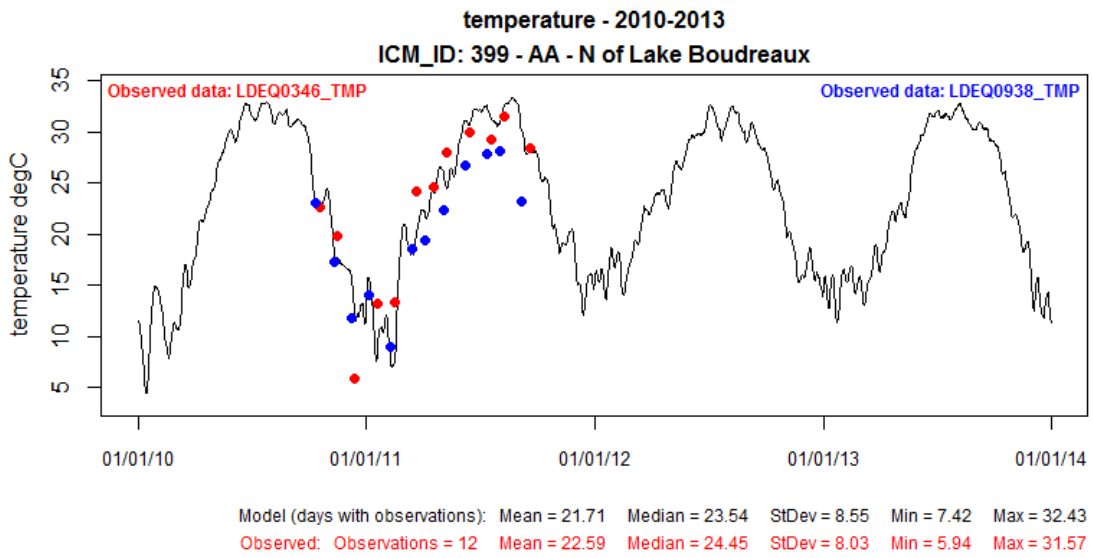

Figure 139: Modeled Temperature (degrees C) at ICM Compartment 399 (solid black line) Compared to Observed Data at LDEQ0346 for Calibration Period, 2010-2013.

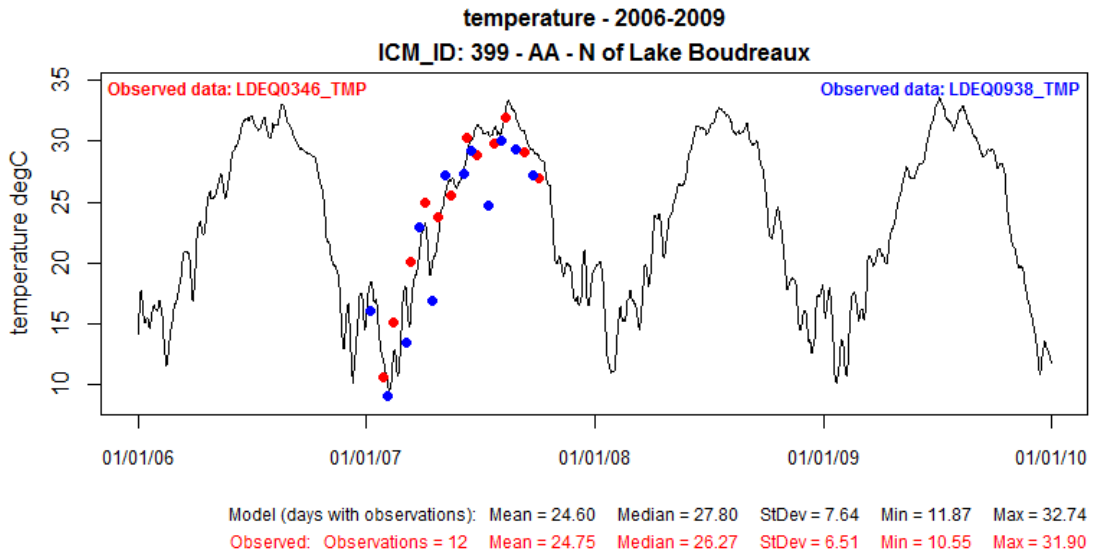

Figure 140: Modeled Temperature (degrees C) at ICM Compartment 399 (solid black line) Compared to Observed Data at LDEQ0346 for Validation Period, 2006-2009.

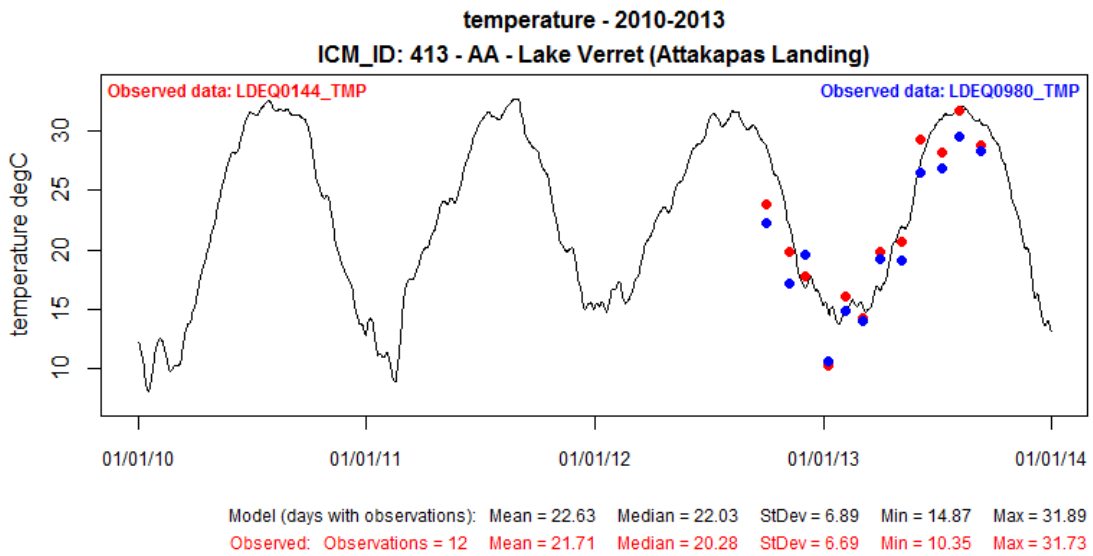

Figure 141: Modeled Temperature (degrees C) at ICM Compartment 413 (solid black line) Compared to Observed Data at LDEQ0144 for Calibration Period, 2010-2013.

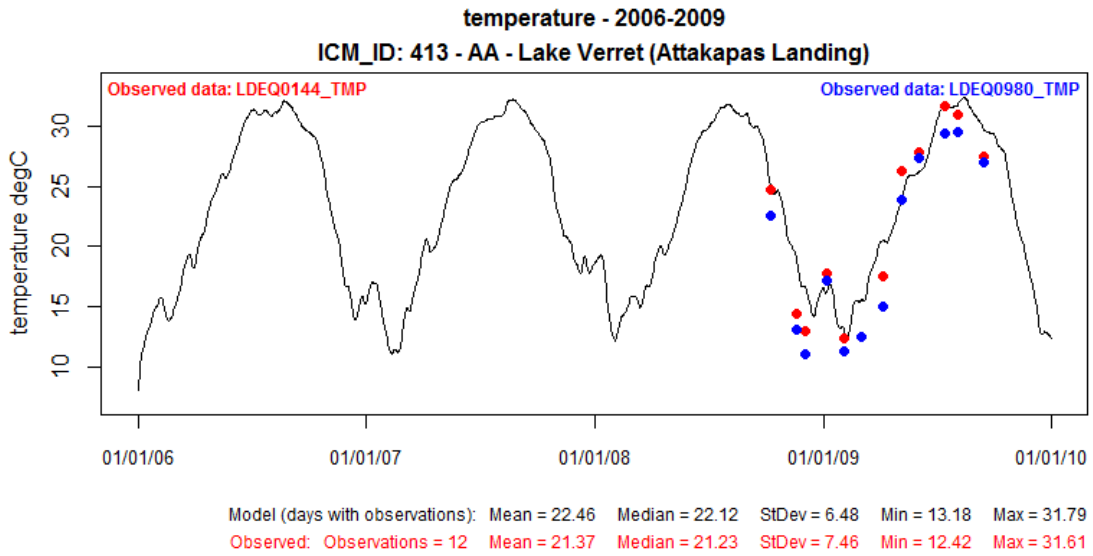

Figure 142: Modeled Temperature (degrees C) at ICM Compartment 413 (solid black line) Compared to Observed Data at LDEQ0144 for Validation Period, 2006-2009.

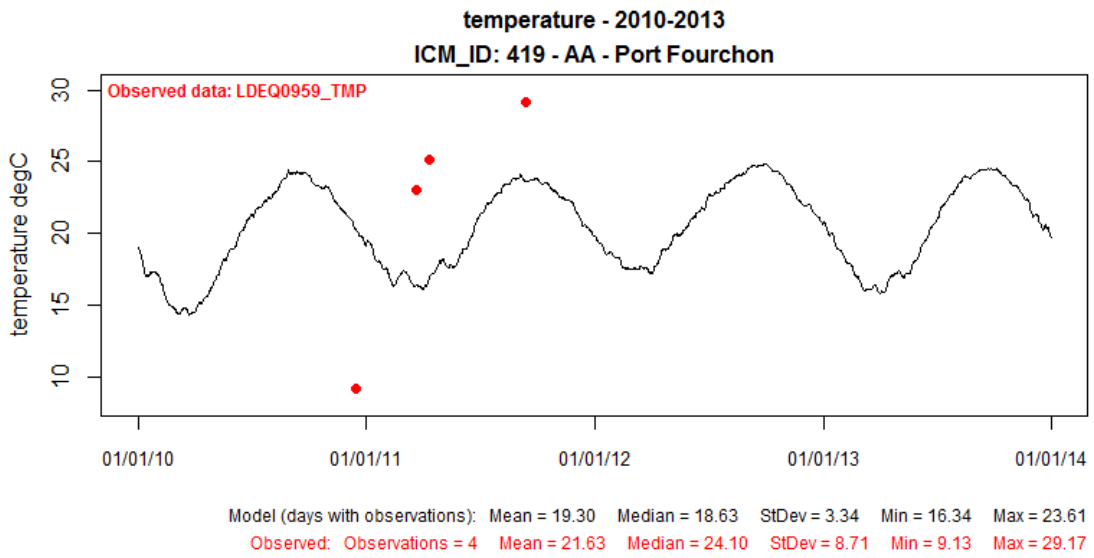

Figure 143: Modeled Temperature (degrees C) at ICM Compartment 419 (solid black line) Compared to Observed Data at LDEQ0959 for Calibration Period, 2010-2013.

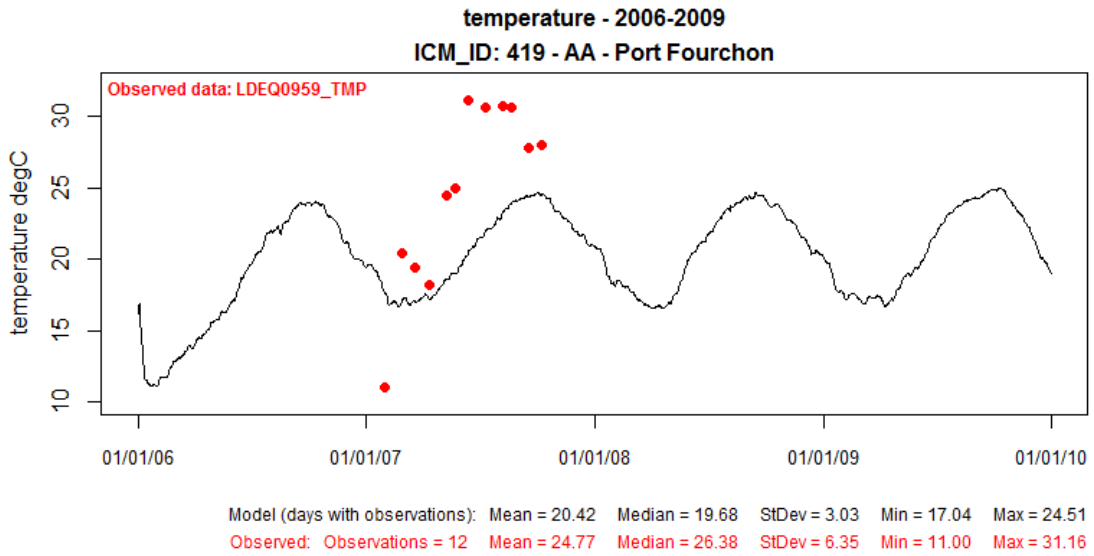

Figure 144: Modeled Temperature (degrees C) at ICM Compartment 419 (solid black line) Compared to Observed Data at LDEQ0959 for Validation Period, 2006-2009.

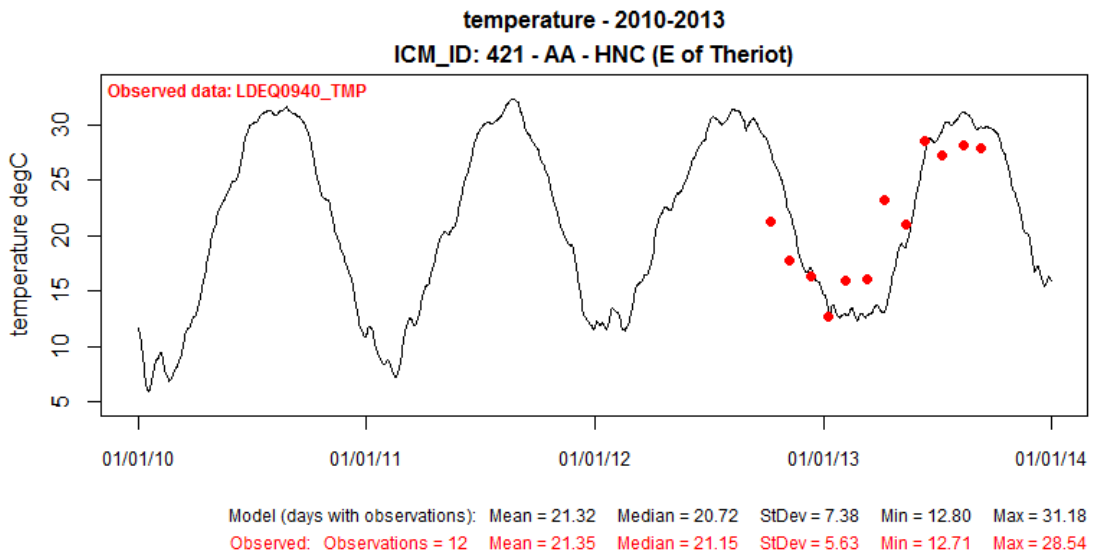

Figure 145: Modeled Temperature (degrees C) at ICM Compartment 421 (solid black line) Compared to Observed Data at LDEQ0940 for Calibration Period, 2010-2013.

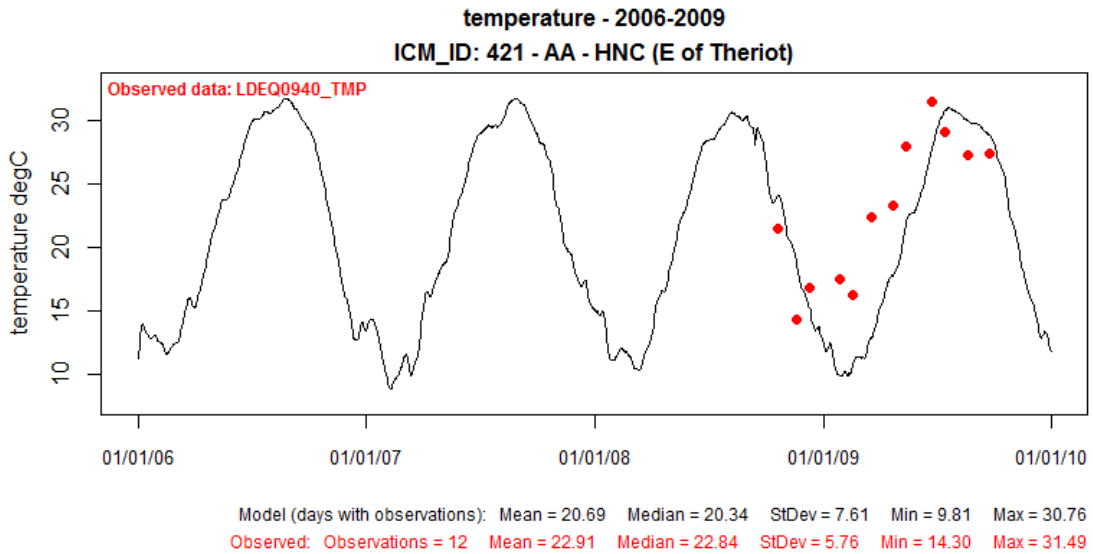

Figure 146: Modeled Temperature (degrees C) at ICM Compartment 421 (solid black line) Compared to Observed Data at LDEQ0940 for Validation Period, 2006-2009.

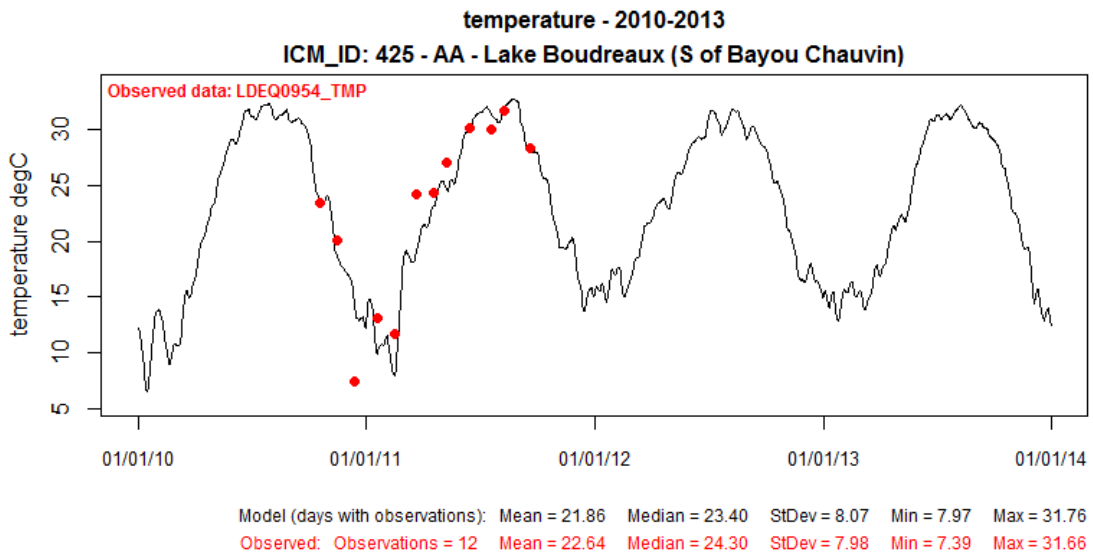

Figure 147: Modeled Temperature (degrees C) at ICM Compartment 425 (solid black line) Compared to Observed Data at LDEQ0954 for Calibration Period, 2010-2013.

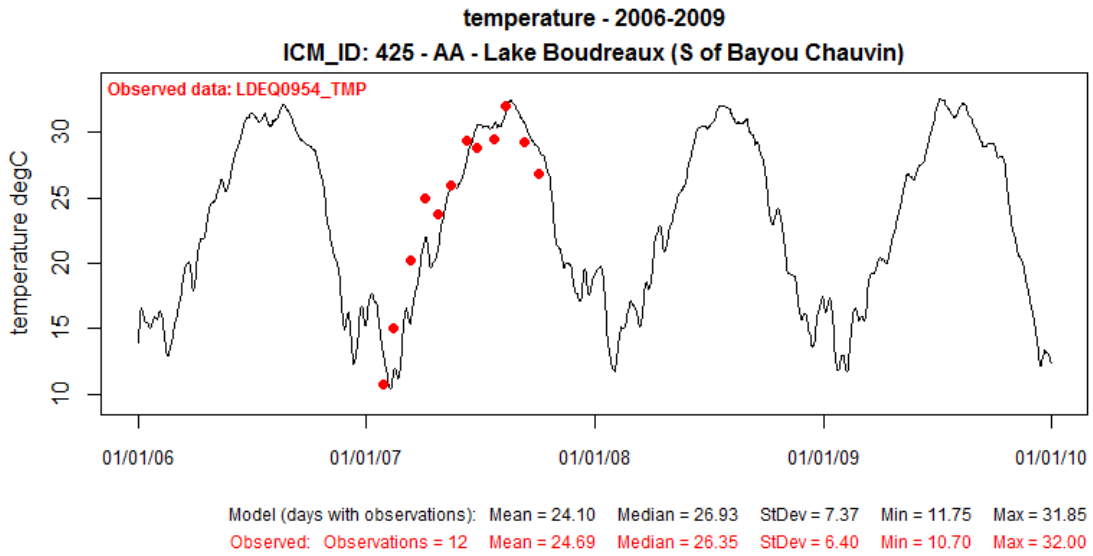

Figure 148: Modeled Temperature (degrees C) at ICM Compartment 425 (solid black line) Compared to Observed Data at LDEQ0954 for Validation Period, 2006-2009.

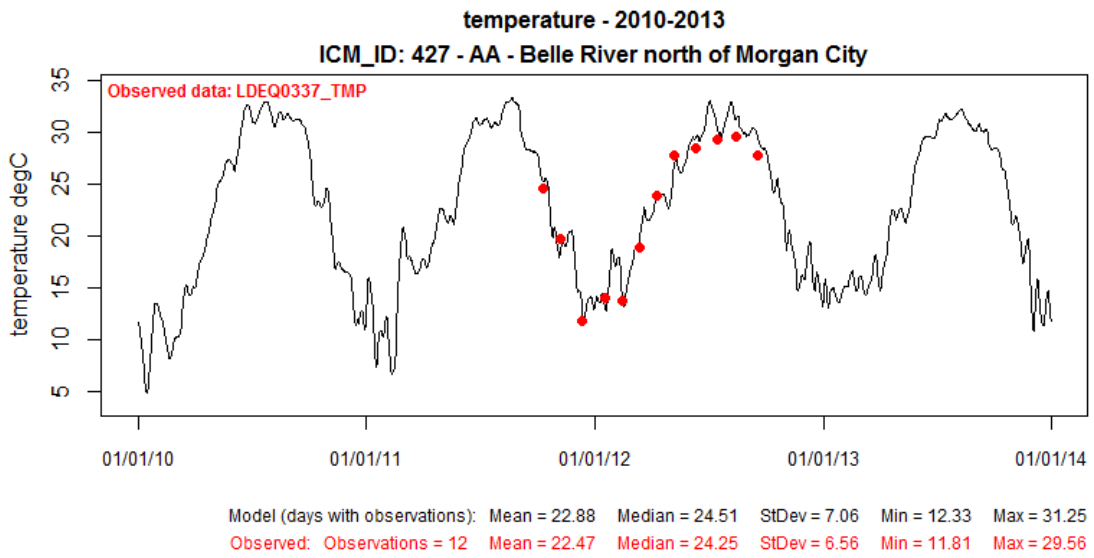

Figure 149: Modeled Temperature (degrees C) at ICM Compartment 427 (solid black line) Compared to Observed Data at LDEQ0337 for Calibration Period, 2010-2013.

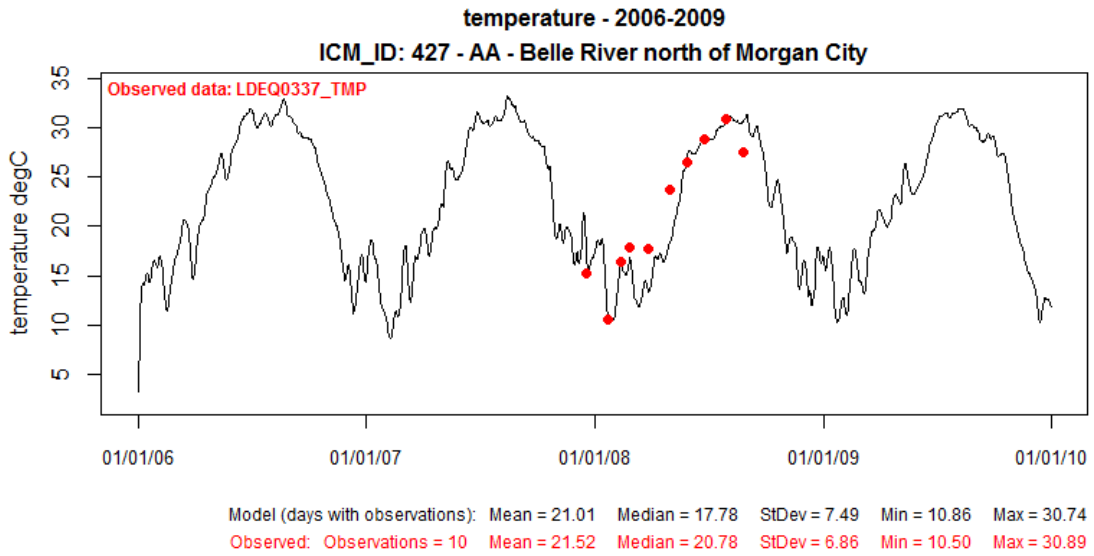

Figure 150: Modeled Temperature (degrees C) at ICM Compartment 427 (solid black line) Compared to Observed Data at LDEQ0337 for Validation Period, 2006-2009.

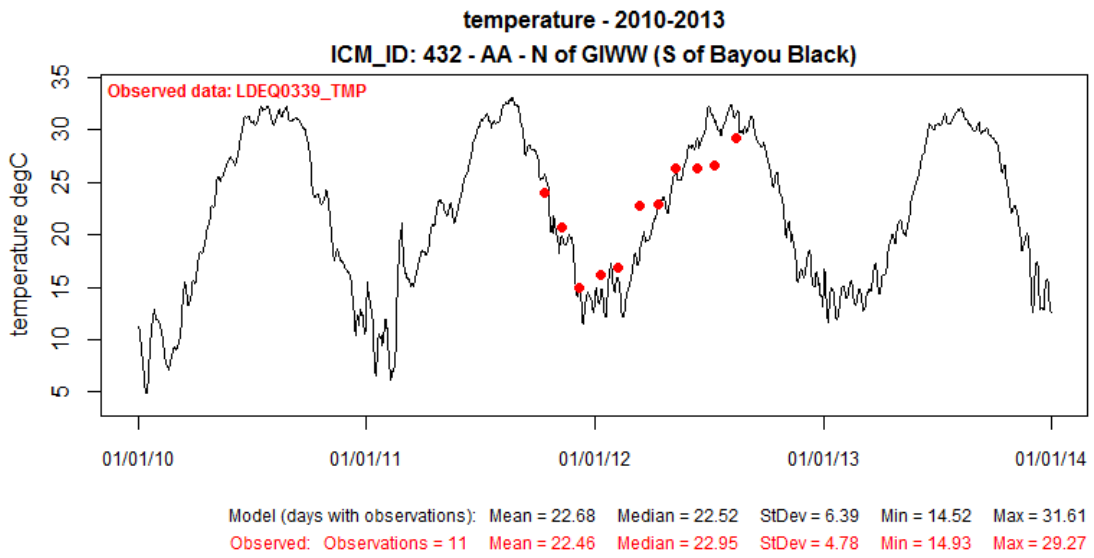

Figure 151: Modeled Temperature (degrees C) at ICM Compartment 432 (solid black line) Compared to Observed Data at LDEQ0339 for Calibration Period, 2010-2013.

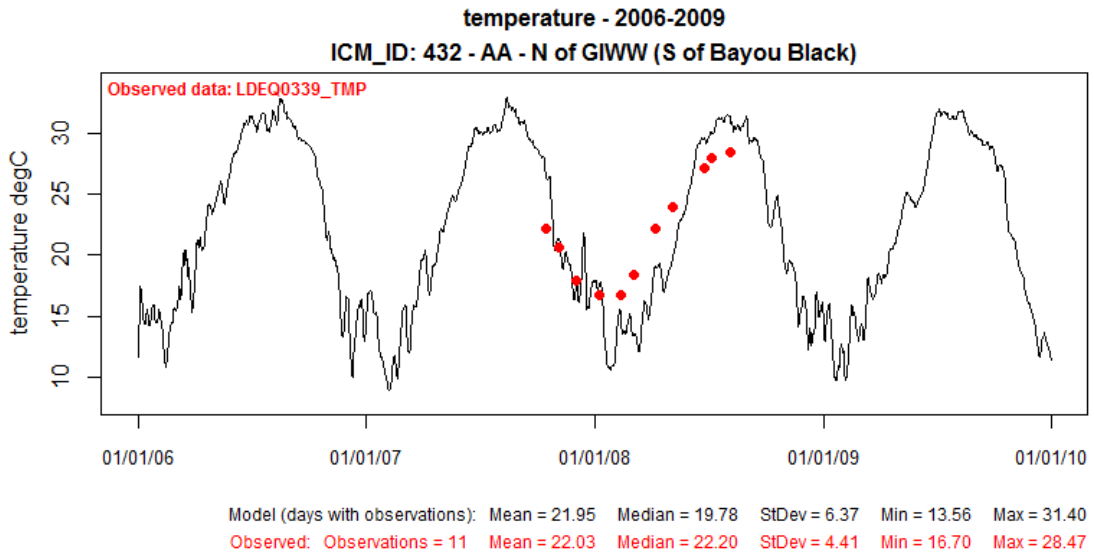

Figure 152: Modeled Temperature (degrees C) at ICM Compartment 432 (solid black line) Compared to Observed Data at LDEQ0339 for Validation Period, 2006-2009.

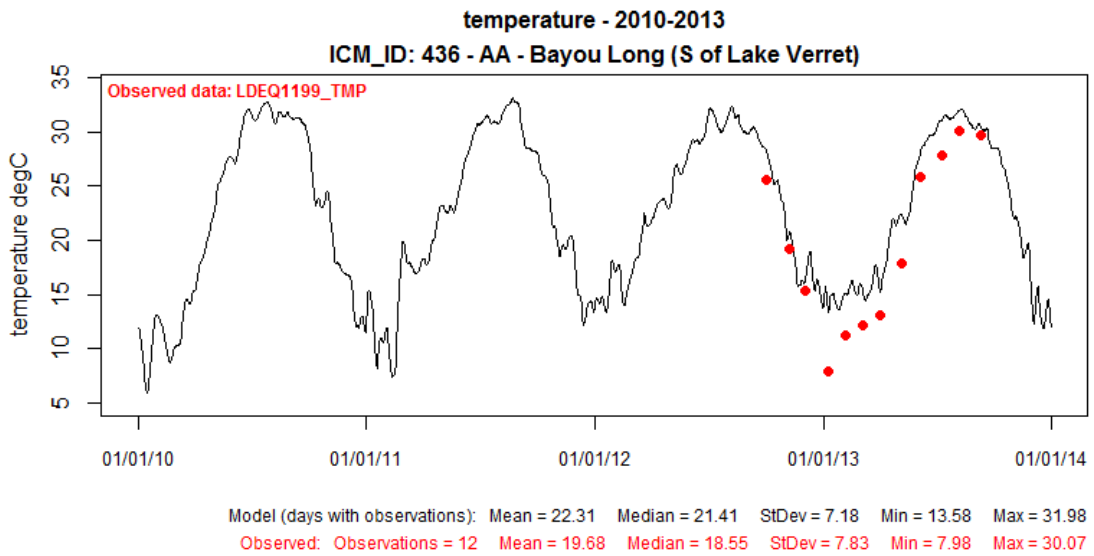

Figure 153: Modeled Temperature (degrees C) at ICM Compartment 436 (solid black line) Compared to Observed Data at LDEQ1199 for Calibration Period, 2010-2013.

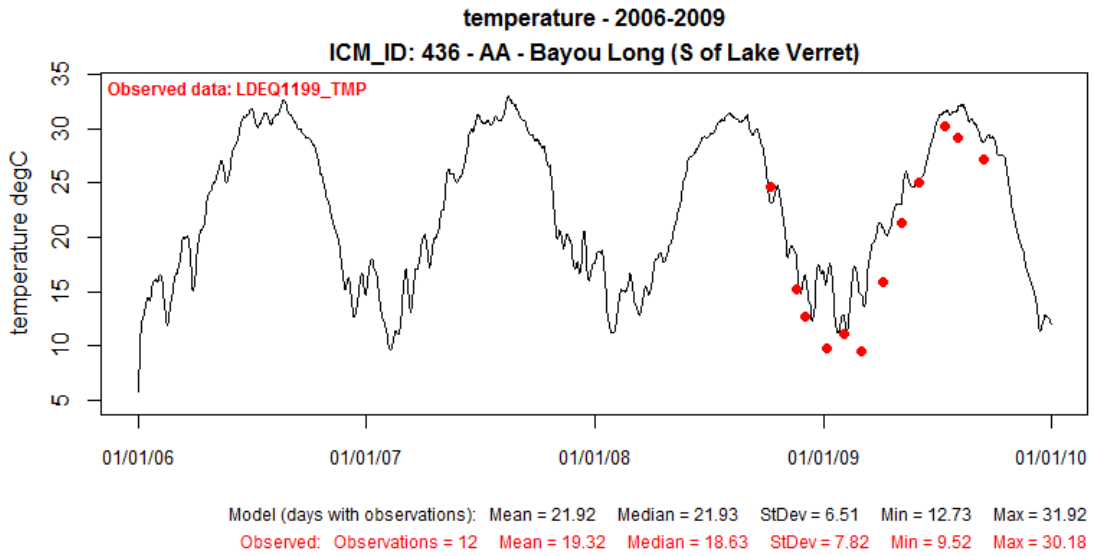

Figure 154: Modeled Temperature (degrees C) at ICM Compartment 436 (solid black line) Compared to Observed Data at LDEQ1199 for Validation Period, 2006-2009.

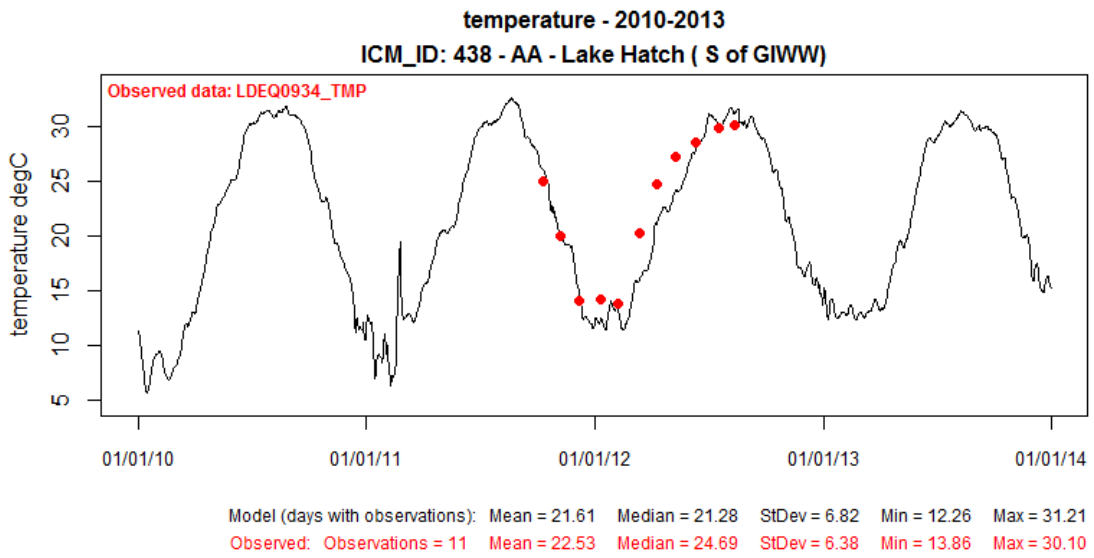

Figure 155: Modeled Temperature (degrees C) at ICM Compartment 438 (solid black line) Compared to Observed Data at LDEQ0934 for Calibration Period, 2010-2013.

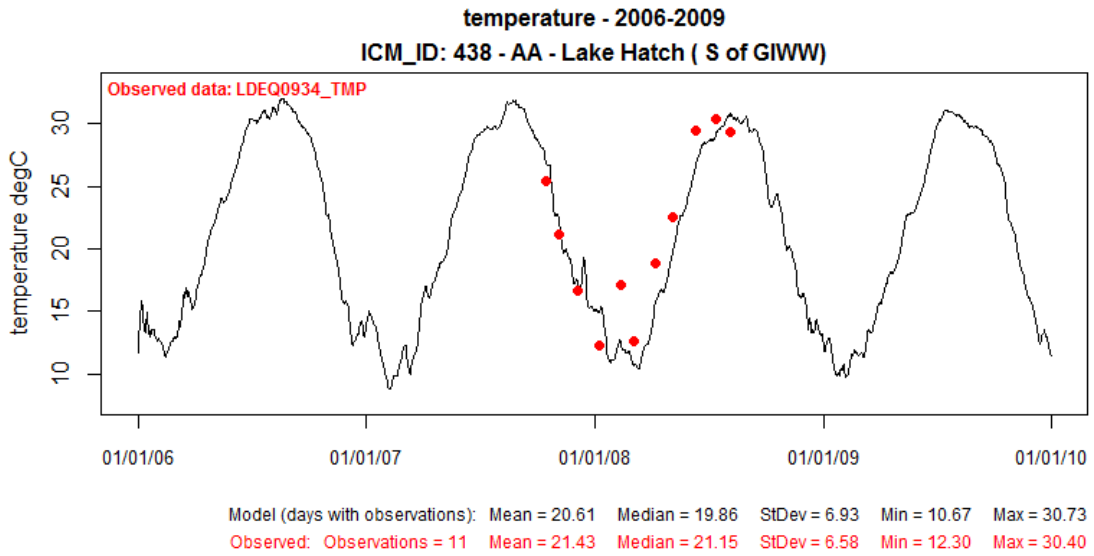

Figure 156: Modeled Temperature (degrees C) at ICM Compartment 438 (solid black line) Compared to Observed Data at LDEQ0934 for Validation Period, 2006-2009.

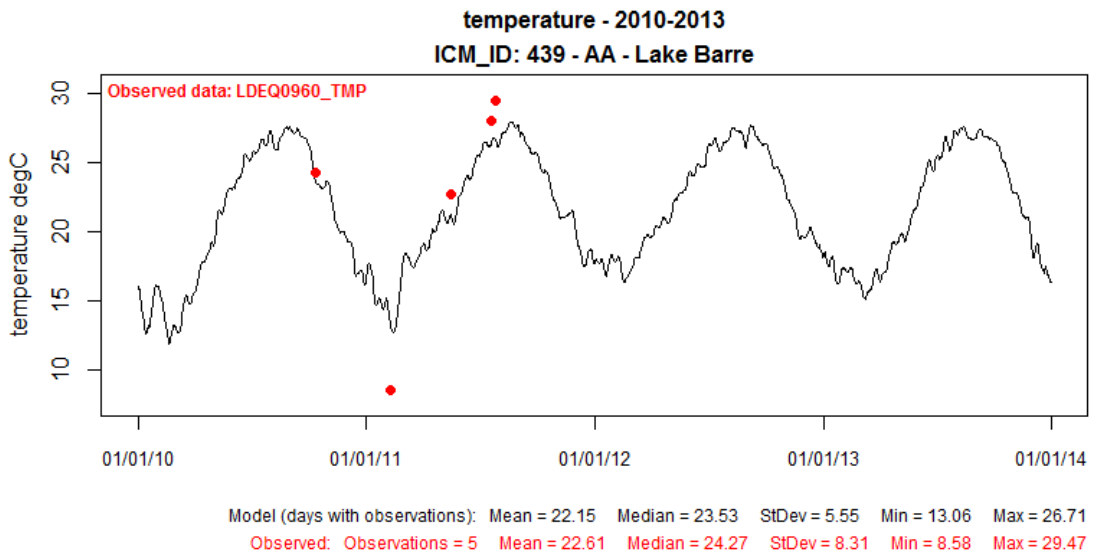

Figure 157: Modeled Temperature (degrees C) at ICM Compartment 439 (solid black line) Compared to Observed Data at LDEQ0960 for Calibration Period, 2010-2013.

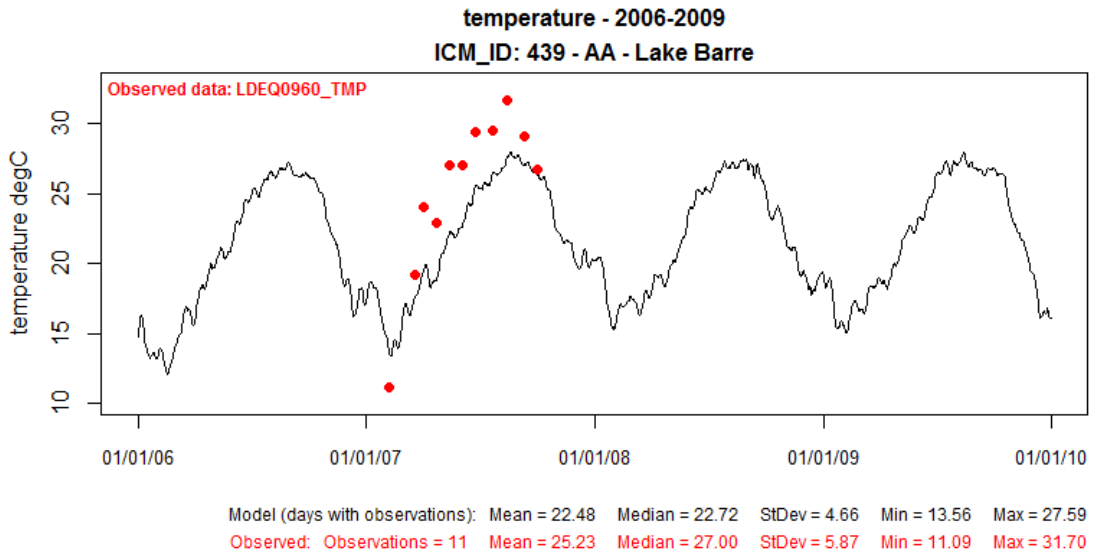

Figure 158: Modeled Temperature (degrees C) at ICM Compartment 439 (solid black line) Compared to Observed Data at LDEQ0960 for Validation Period, 2006-2009.

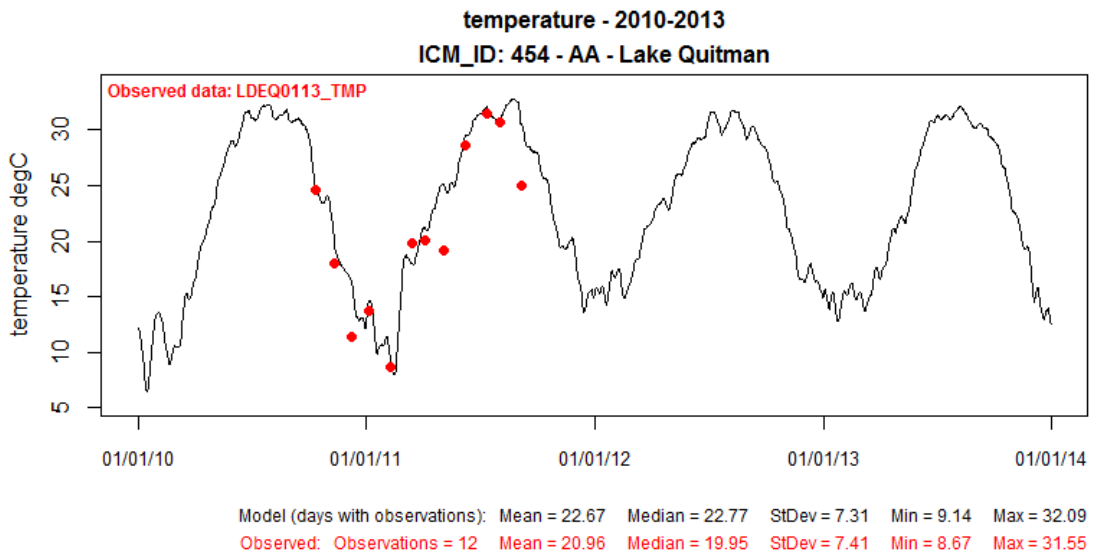

Figure 159: Modeled Temperature (degrees C) at ICM Compartment 454 (solid black line) Compared to Observed Data at LDEQ0113 for Calibration Period, 2010-2013.

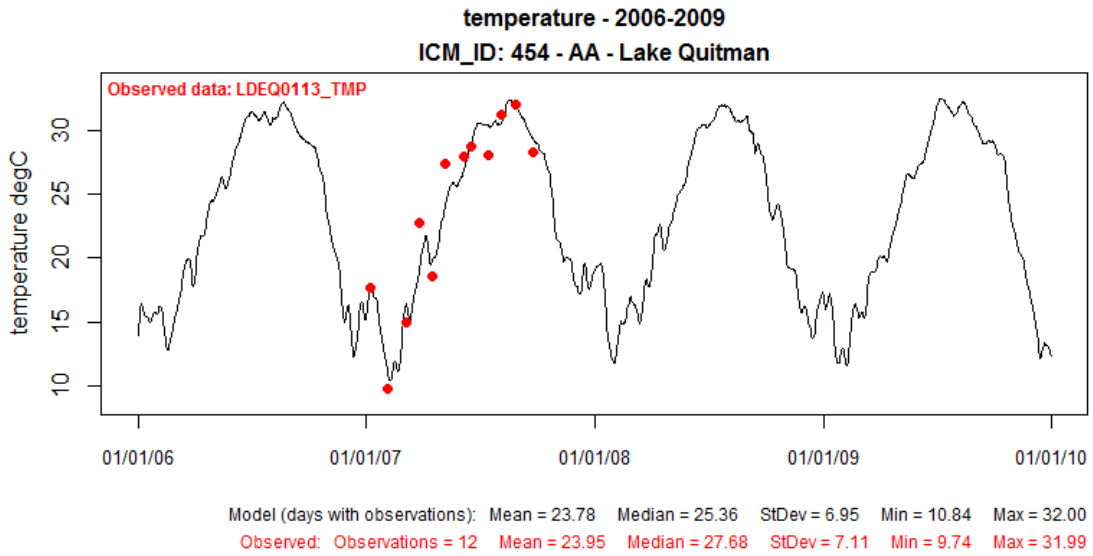

Figure 160: Modeled Temperature (degrees C) at ICM Compartment 454 (solid black line) Compared to Observed Data at LDEQ0113 for Validation Period, 2006-2009.

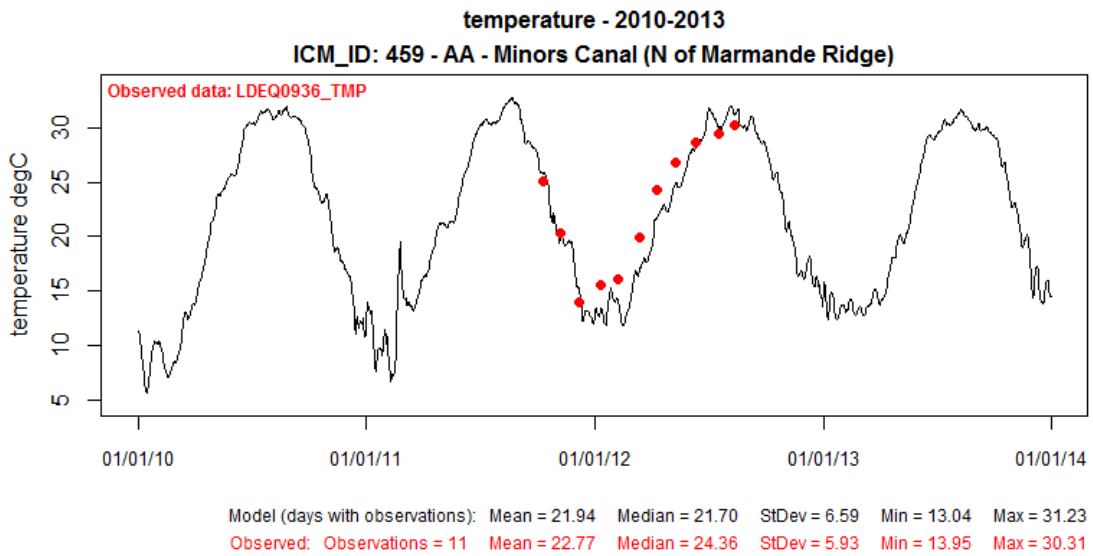

Figure 161: Modeled Temperature (degrees C) at ICM Compartment 459 (solid black line) Compared to Observed Data at LDEQ0936 for Calibration Period, 2010-2013.

Figure 162: No Validation Figure for ICM Compartment 459.

DRAFT

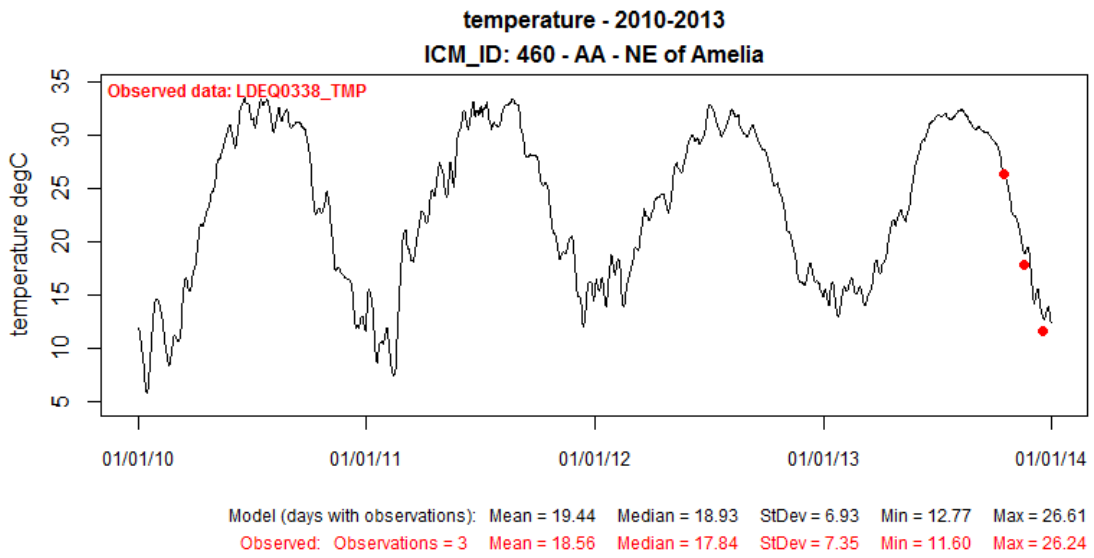

Figure 163: Modeled Temperature (degrees C) at ICM Compartment 460 (solid black line) Compared to Observed Data at LDEQ0338 for Calibration Period, 2010-2013.

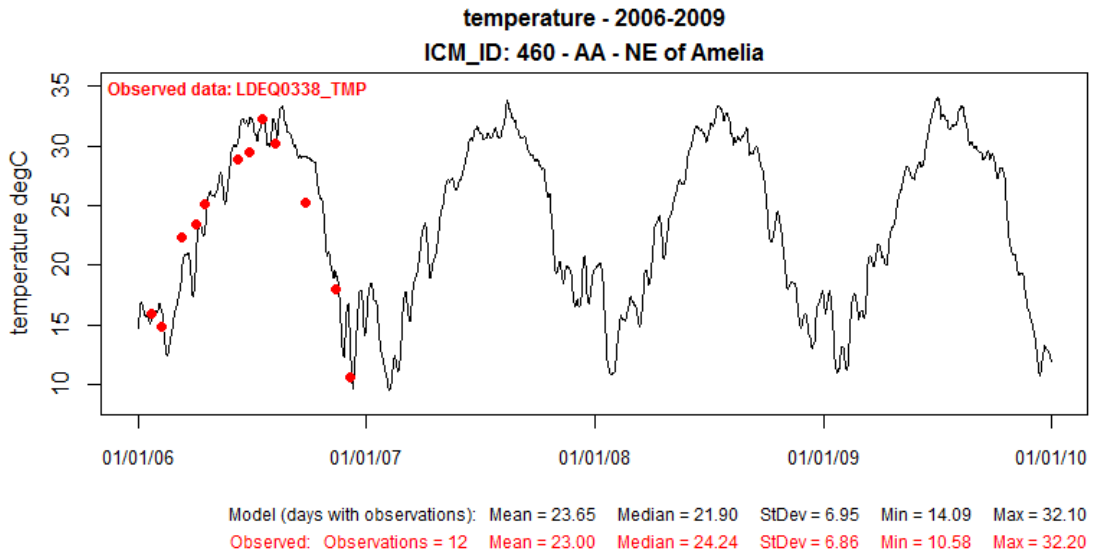

Figure 164: Modeled Temperature (degrees C) at ICM Compartment 460 (solid black line) Compared to Observed Data at LDEQ0338 for Validation Period, 2006-2009.

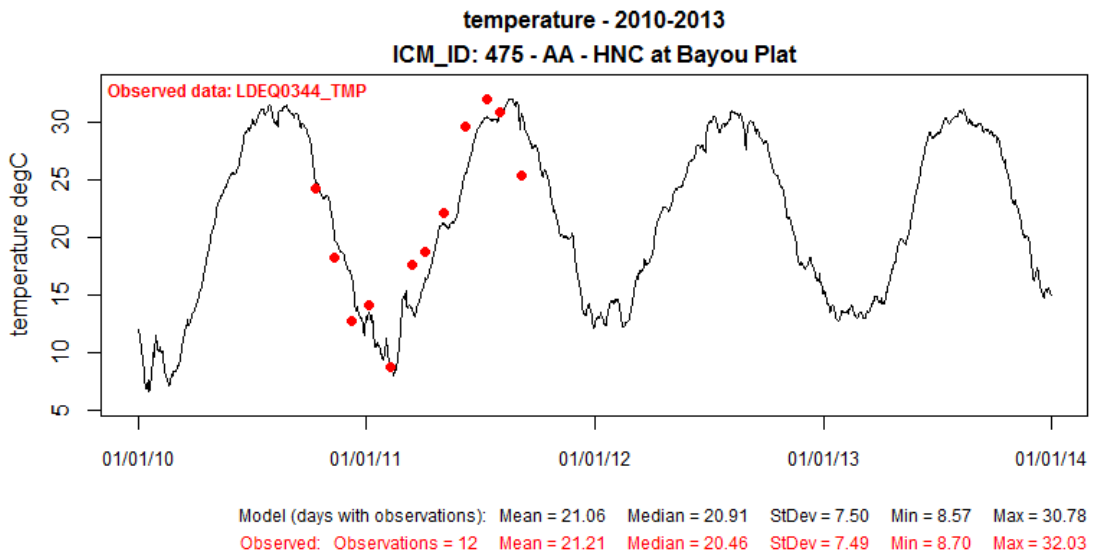

Figure 165: Modeled Temperature (degrees C) at ICM Compartment 475 (solid black line) Compared to Observed Data at LDEQ0344 for Calibration Period, 2010-2013.

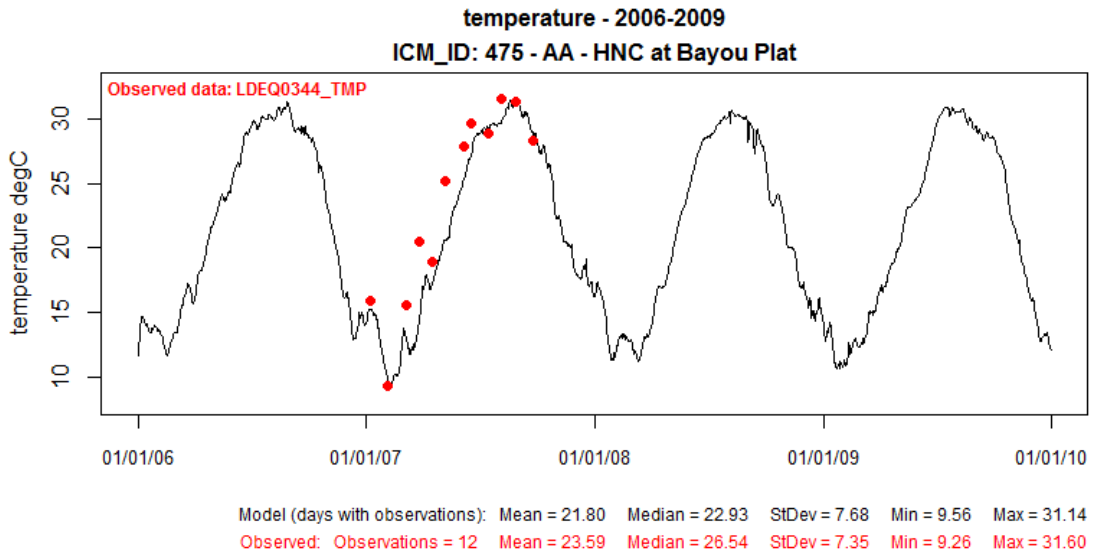

Figure 166: Modeled Temperature (degrees C) at ICM Compartment 475 (solid black line) Compared to Observed Data at LDEQ0344 for Validation Period, 2006-2009.

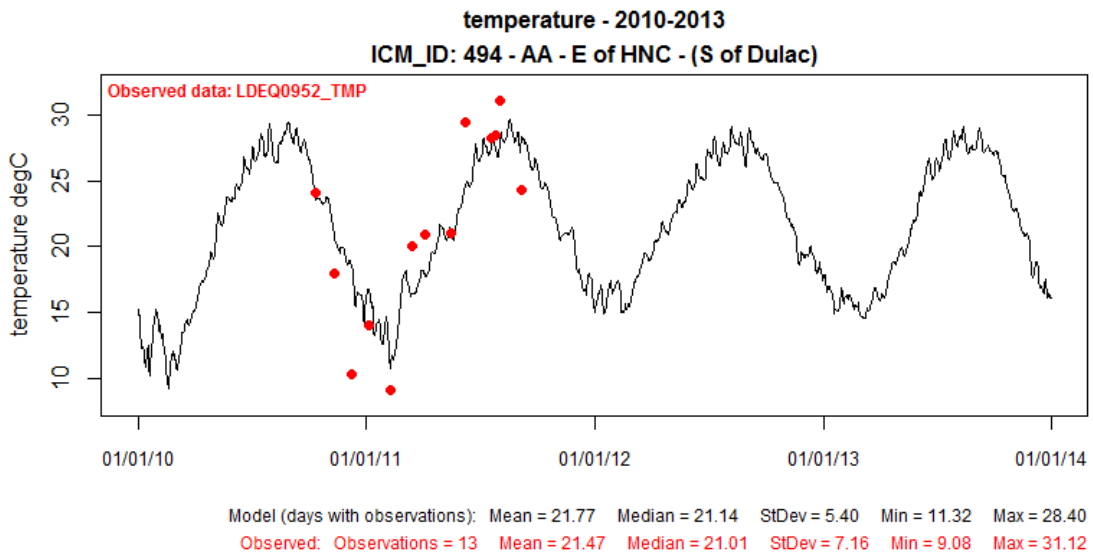

Figure 167: Modeled Temperature (degrees C) at ICM Compartment 494 (solid black line) Compared to Observed Data at LDEQ0952 for Calibration Period, 2010-2013.

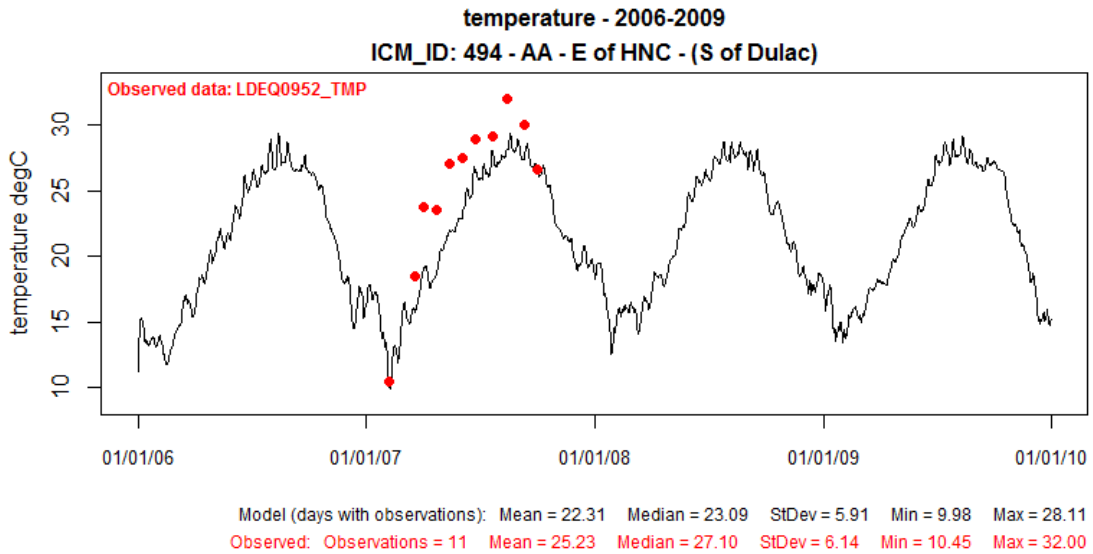

Figure 168: Modeled Temperature (degrees C) at ICM Compartment 494 (solid black line) Compared to Observed Data at LDEQ0952 for Validation Period, 2006-2009.

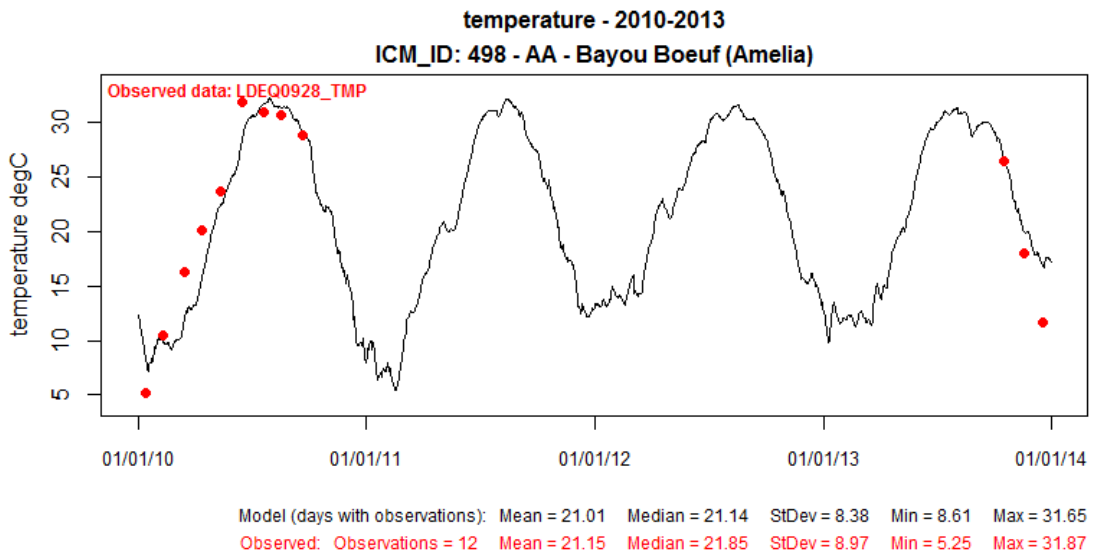

Figure 169: Modeled Temperature (degrees C) at ICM Compartment 498 (solid black line) Compared to Observed Data at LDEQ0928 for Calibration Period, 2010-2013.

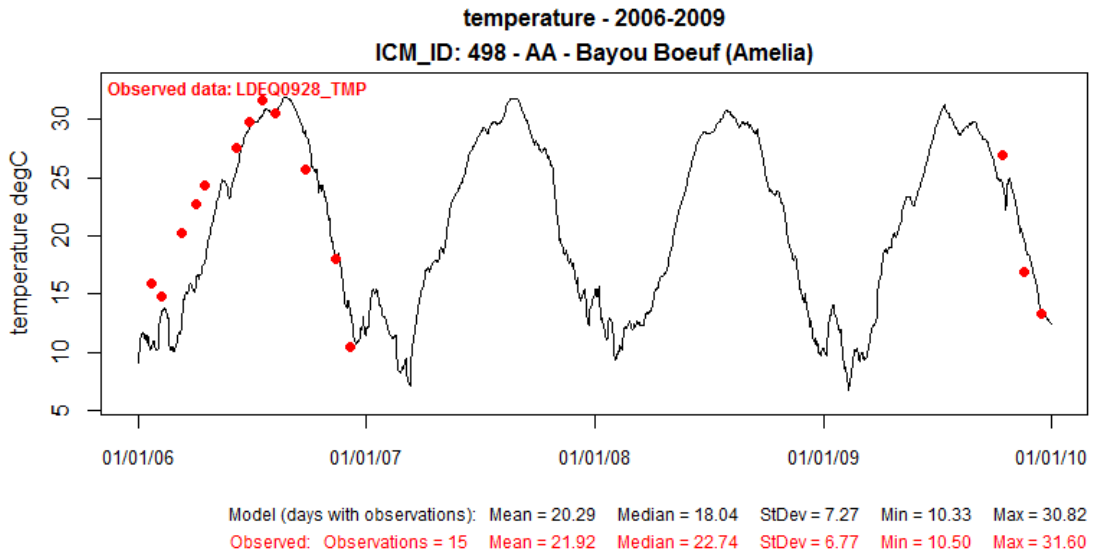

Figure 170: Modeled Temperature (degrees C) at ICM Compartment 498 (solid black line) Compared to Observed Data at LDEQ0928 for Validation Period, 2006-2009.

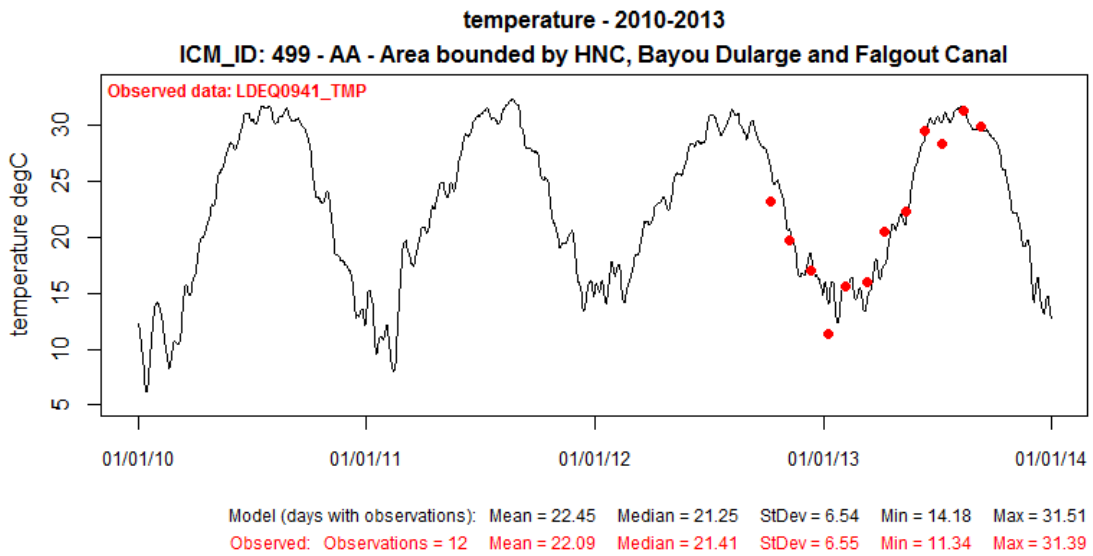

Figure 171: Modeled Temperature (degrees C) at ICM Compartment 499 (solid black line) Compared to Observed Data at LDEQ0941 for Calibration Period, 2010-2013.

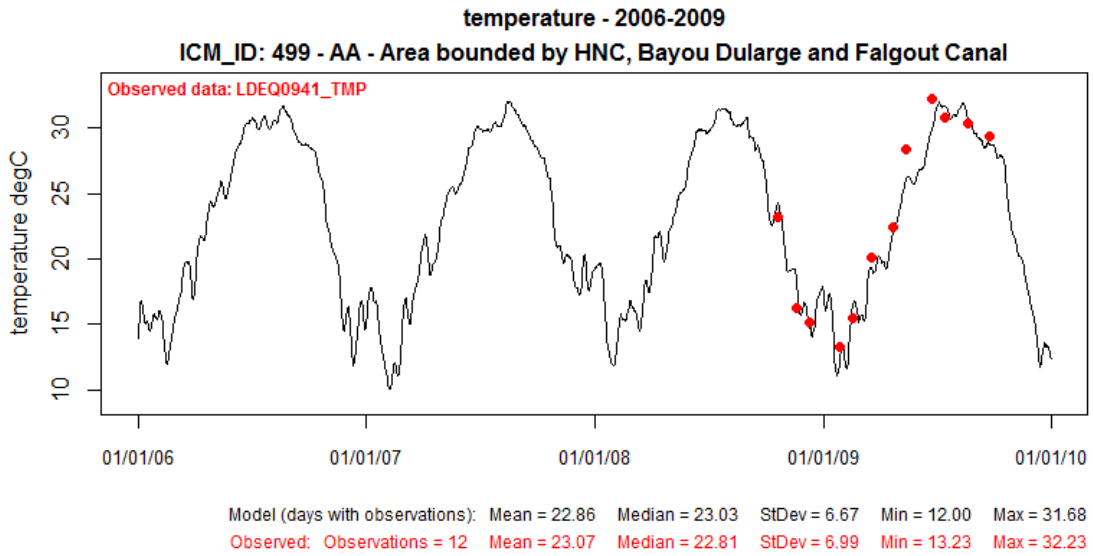

Figure 172: Modeled Temperature (degrees C) at ICM Compartment 499 (solid black line) Compared to Observed Data at LDEQ0941 for Validation Period, 2006-2009.

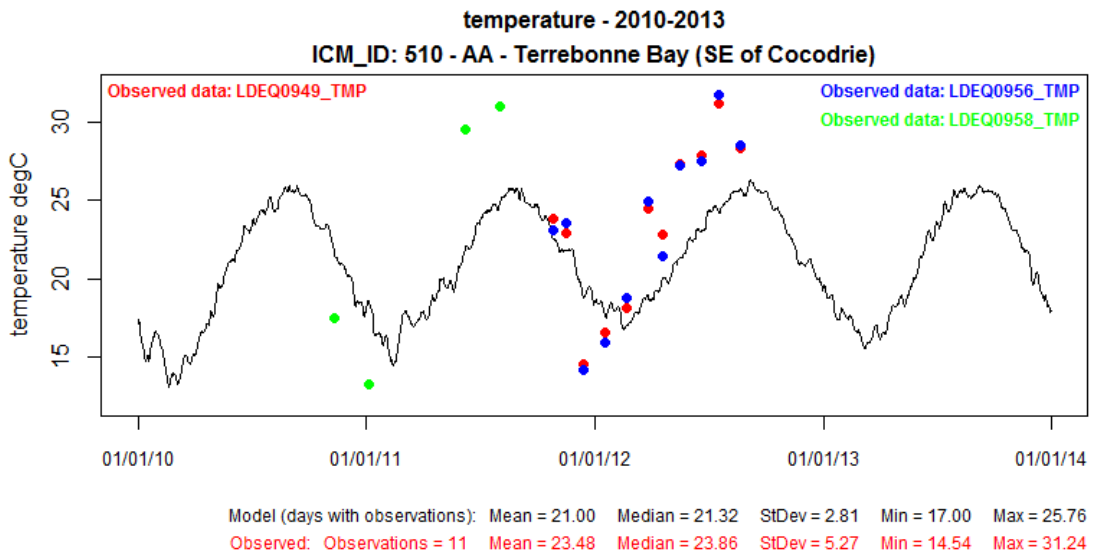

Figure 173: Modeled Temperature (degrees C) at ICM Compartment 510 (solid black line) Compared to Observed Data at LDEQ0949 for Calibration Period, 2010-2013.

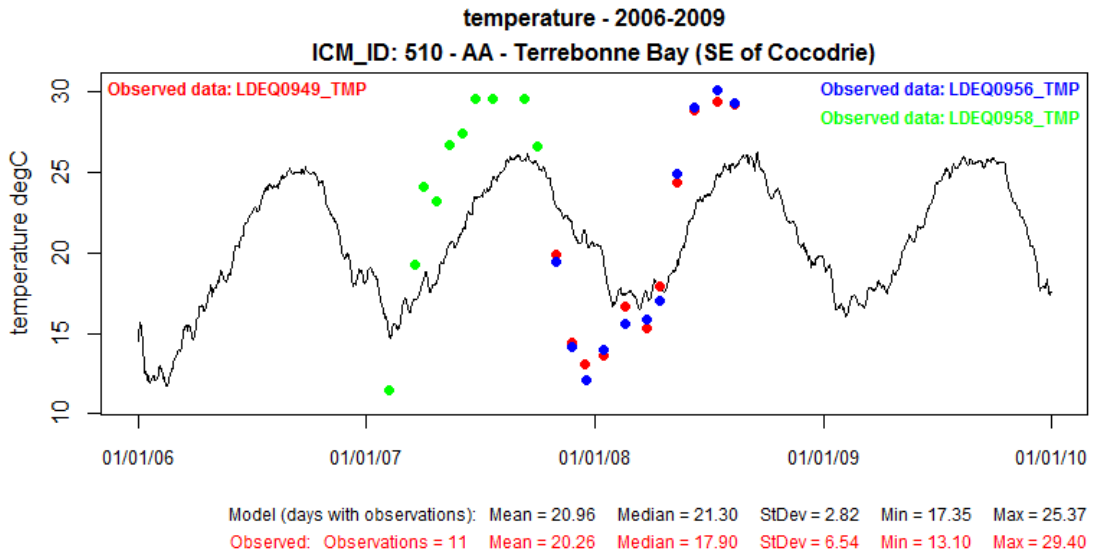

Figure 174: Modeled Temperature (degrees C) at ICM Compartment 510 (solid black line) Compared to Observed Data at LDEQ0949 for Validation Period, 2006-2009.

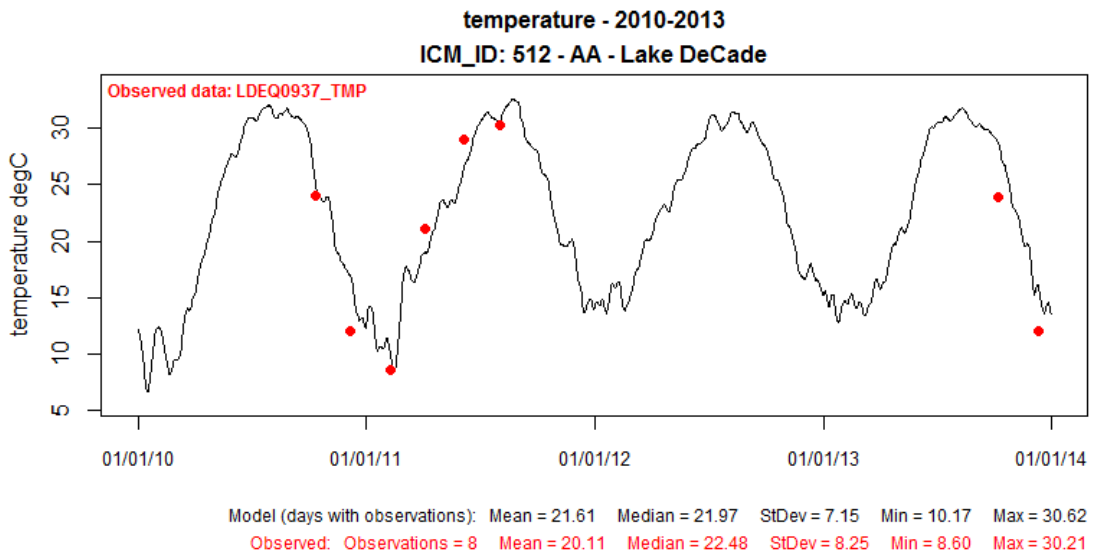

Figure 175: Modeled Temperature (degrees C) at ICM Compartment 512 (solid black line) Compared to Observed Data at LDEQ0937 for Calibration Period, 2010-2013.

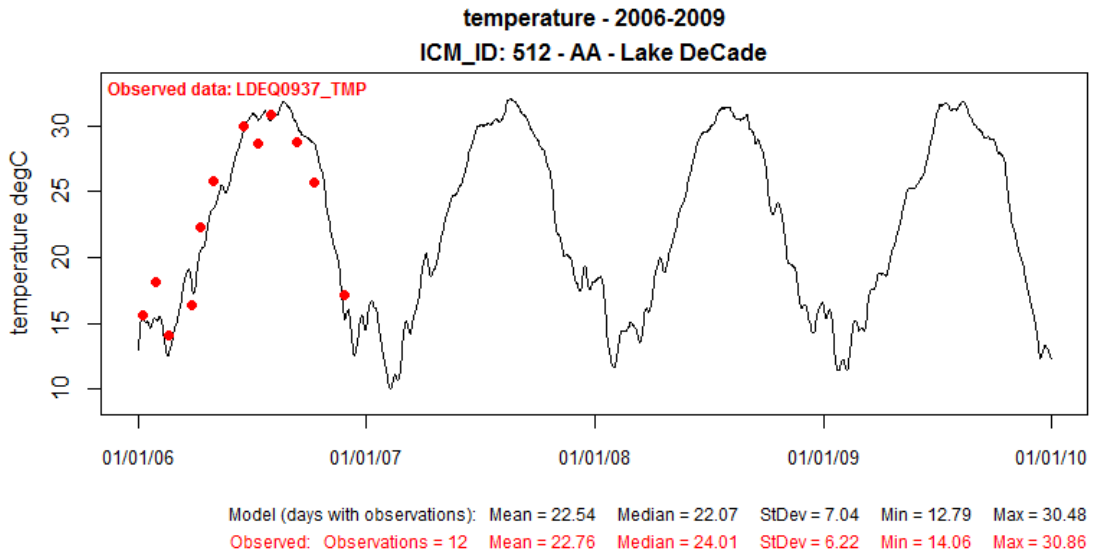

Figure 176: Modeled Temperature (degrees C) at ICM Compartment 512 (solid black line) Compared to Observed Data at LDEQ0937 for Validation Period, 2006-2009.

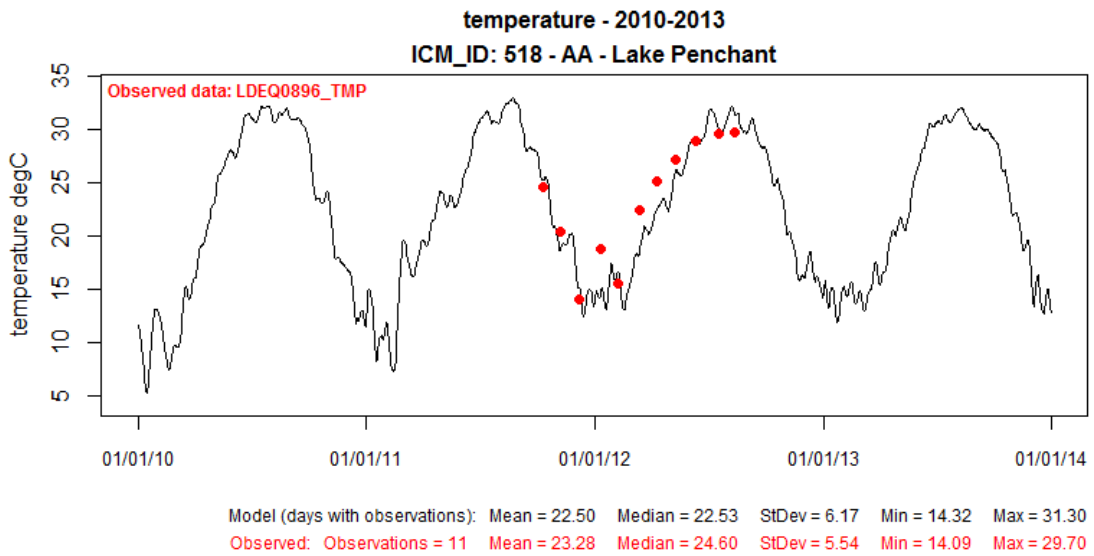

Figure 177: Modeled Temperature (degrees C) at ICM Compartment 518 (solid black line) Compared to Observed Data at LDEQ0896 for Calibration Period, 2010-2013.

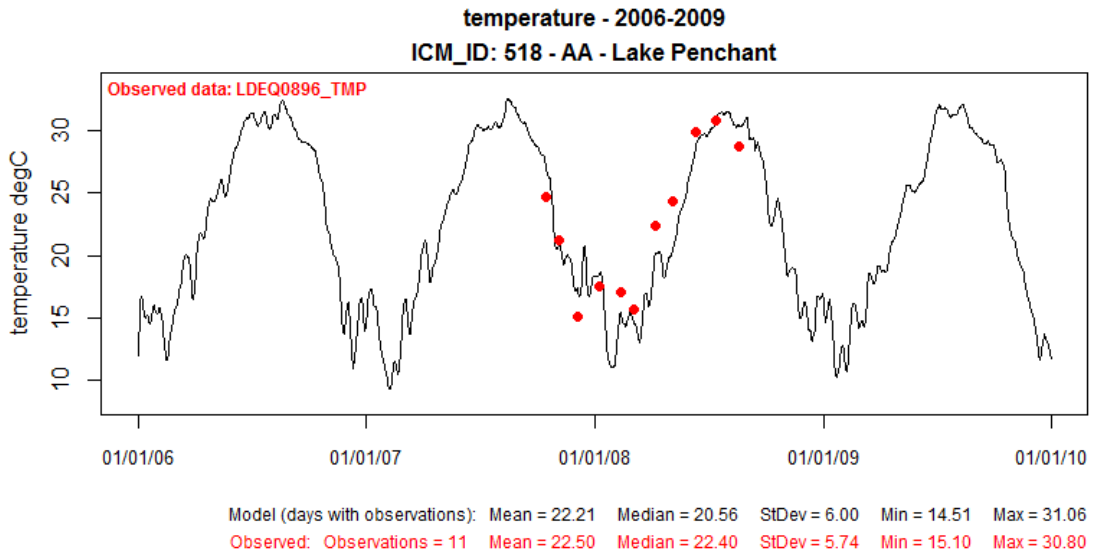

Figure 178: Modeled Temperature (degrees C) at ICM Compartment 518 (solid black line) Compared to Observed Data at LDEQ0896 for Validation Period, 2006-2009.

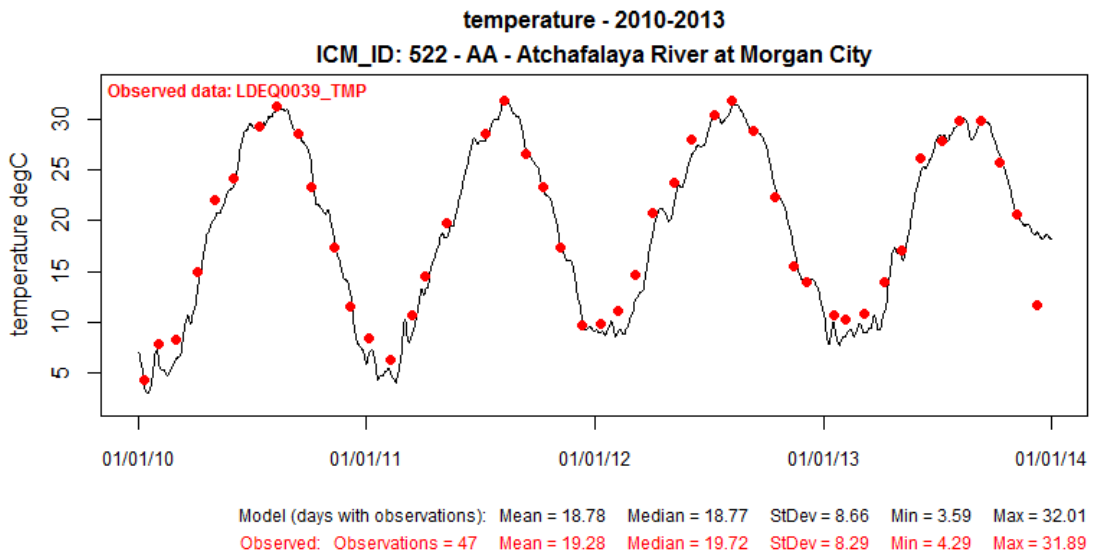

Figure 179: Modeled Temperature (degrees C) at ICM Compartment 522 (solid black line) Compared to Observed Data at LDEQ0039 for Calibration Period, 2010-2013.

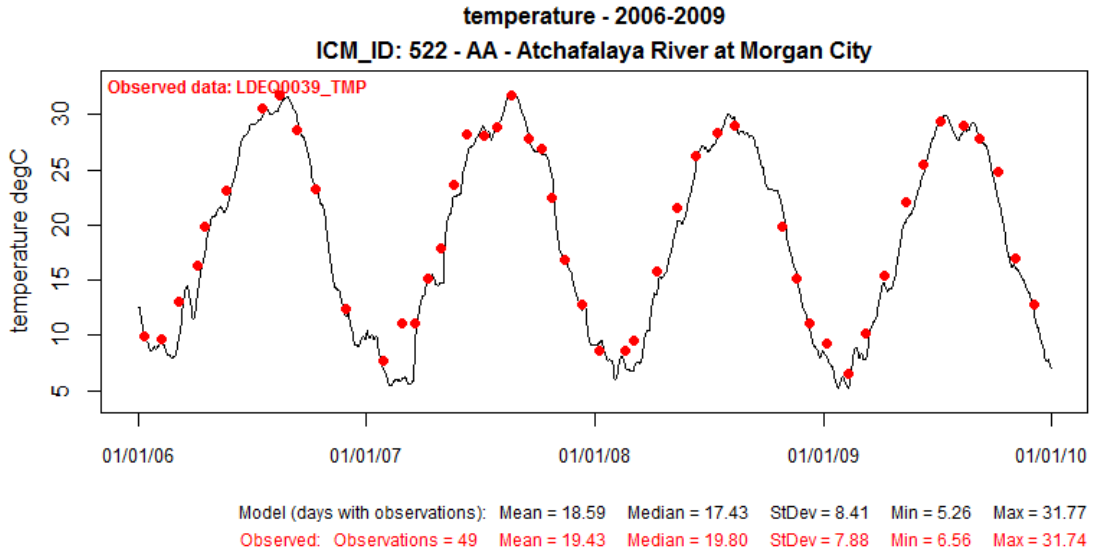

Figure 180: Modeled Temperature (degrees C) at ICM Compartment 522 (solid black line) Compared to Observed Data at LDEQ0039 for Validation Period, 2006-2009.

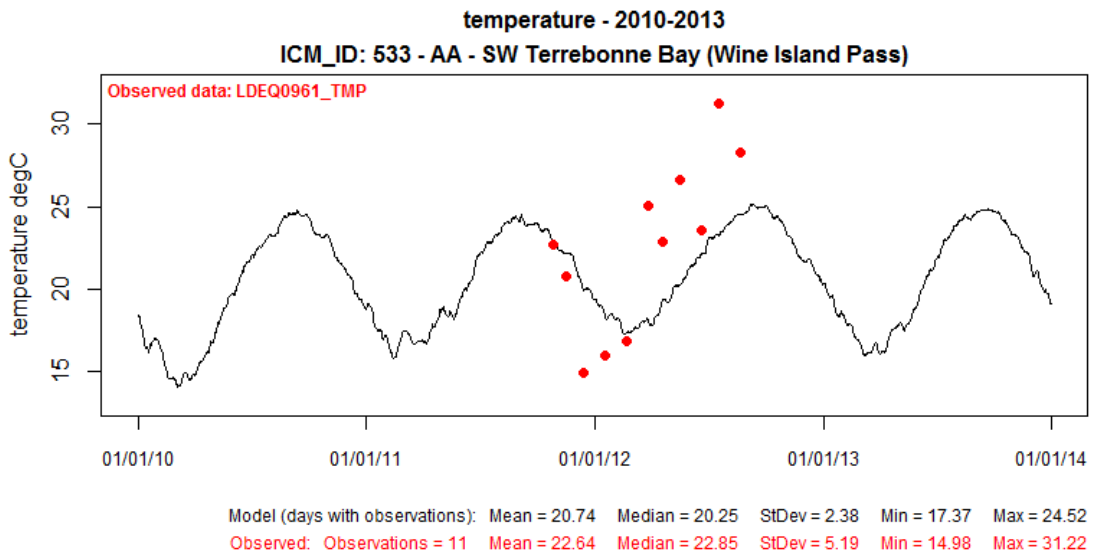

Figure 181: Modeled Temperature (degrees C) at ICM Compartment 533 (solid black line) Compared to Observed Data at LDEQ0961 for Calibration Period, 2010-2013.

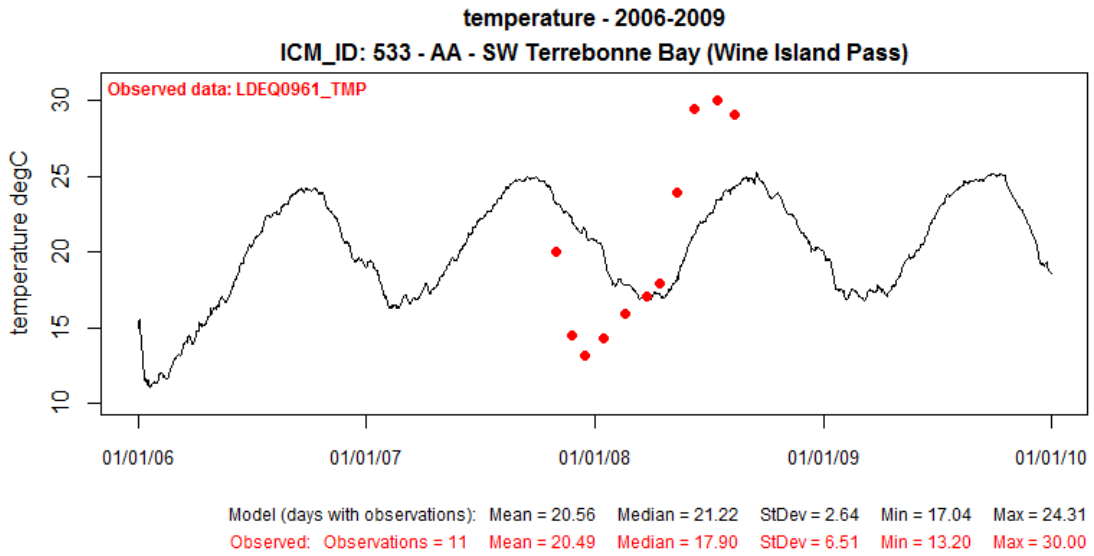

Figure 182: Modeled Temperature (degrees C) at ICM Compartment 533 (solid black line) Compared to Observed Data at LDEQ0961 for Validation Period, 2006-2009.

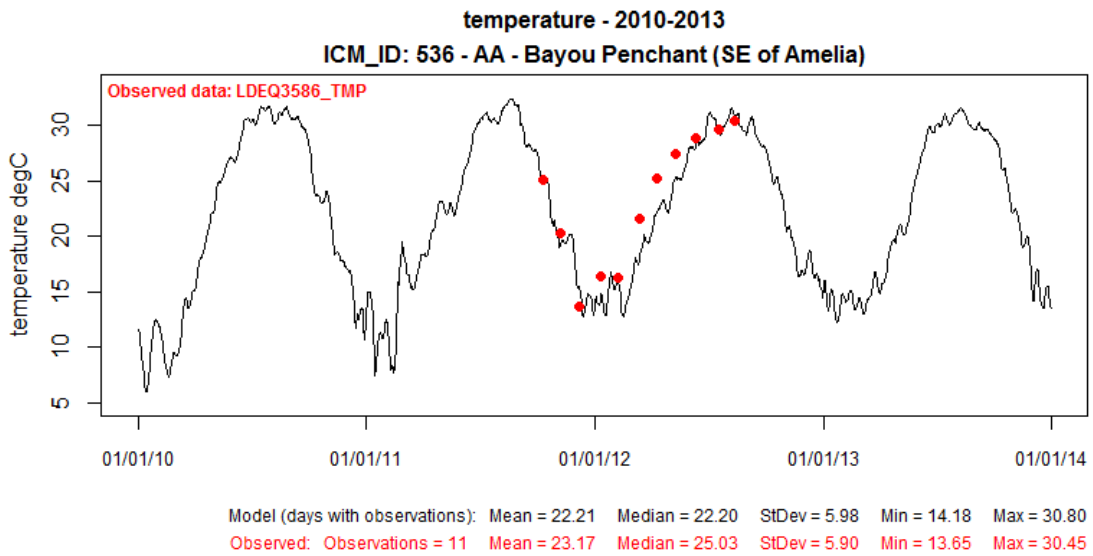

Figure 183: Modeled Temperature (degrees C) at ICM Compartment 536 (solid black line) Compared to Observed Data at LDEQ3586 for Calibration Period, 2010-2013.

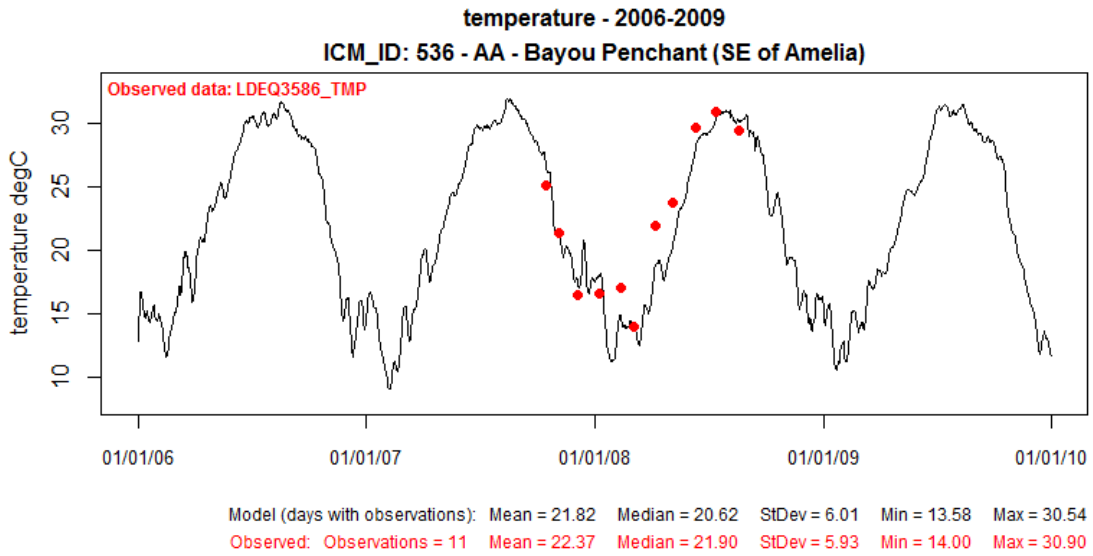

Figure 184: Modeled Temperature (degrees C) at ICM Compartment 536 (solid black line) Compared to Observed Data at LDEQ3586 for Validation Period, 2006-2009.

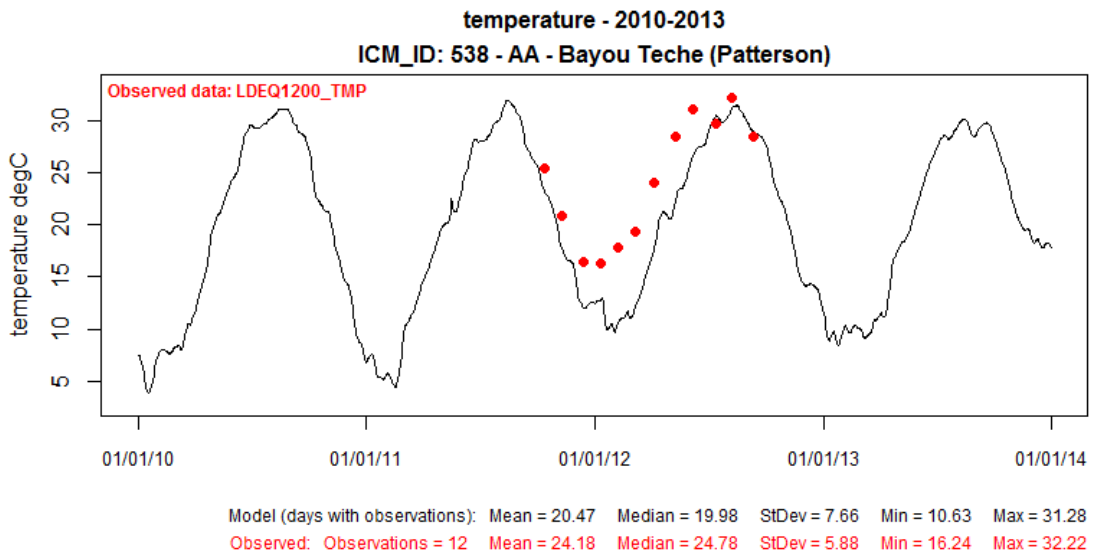

Figure 185: Modeled Temperature (degrees C) at ICM Compartment 538 (solid black line) Compared to Observed Data at LDEQ1200 for Calibration Period, 2010-2013.

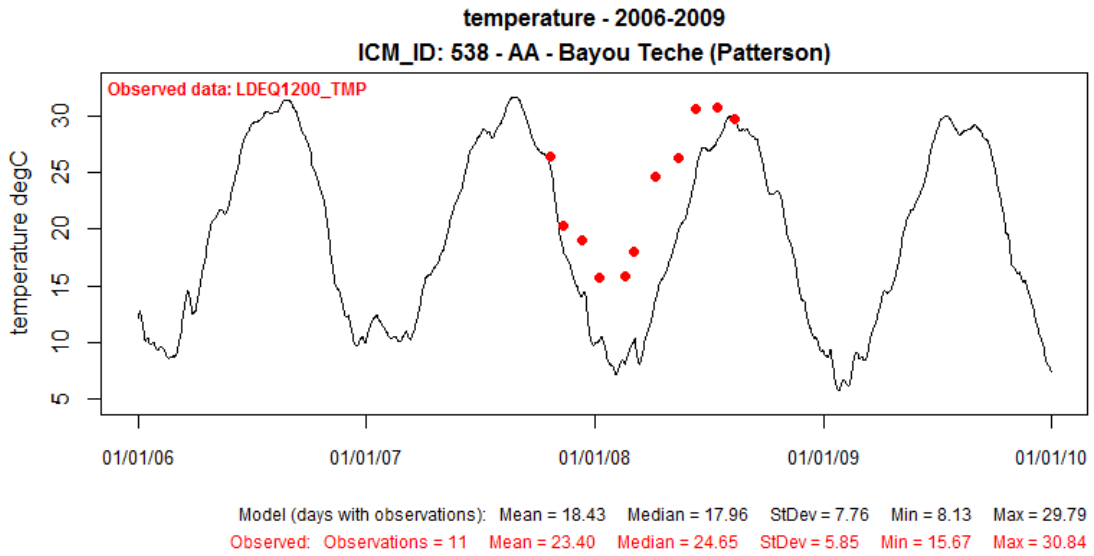

Figure 186: Modeled Temperature (degrees C) at ICM Compartment 538 (solid black line) Compared to Observed Data at LDEQ1200 for Validation Period, 2006-2009.

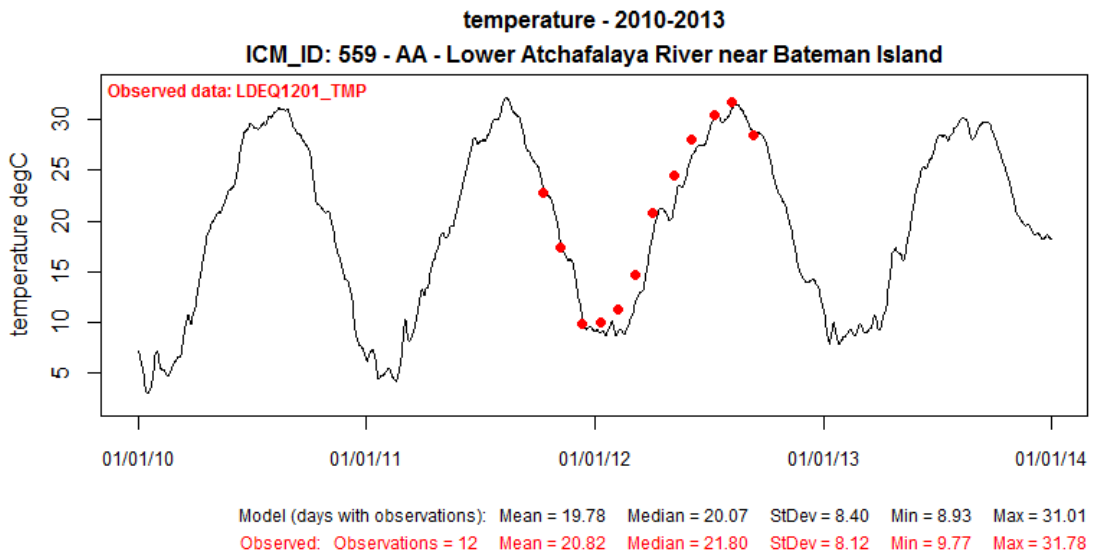

Figure 187: Modeled Temperature (degrees C) at ICM Compartment 559 (solid black line) Compared to Observed Data at LDEQ1201 for Calibration Period, 2010-2013.

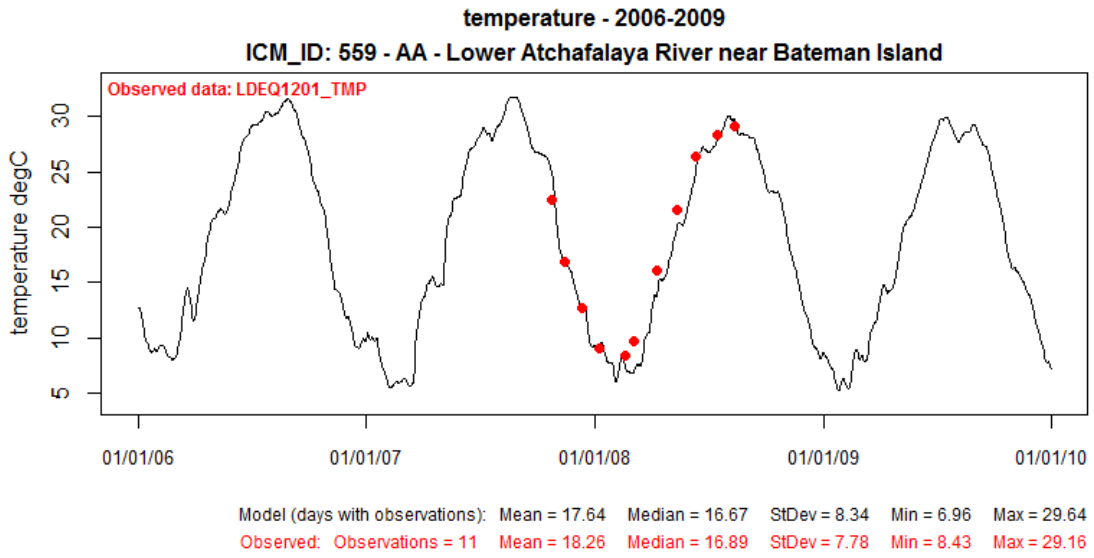

Figure 188: Modeled Temperature (degrees C) at ICM Compartment 559 (solid black line) Compared to Observed Data at LDEQ1201 for Validation Period, 2006-2009.

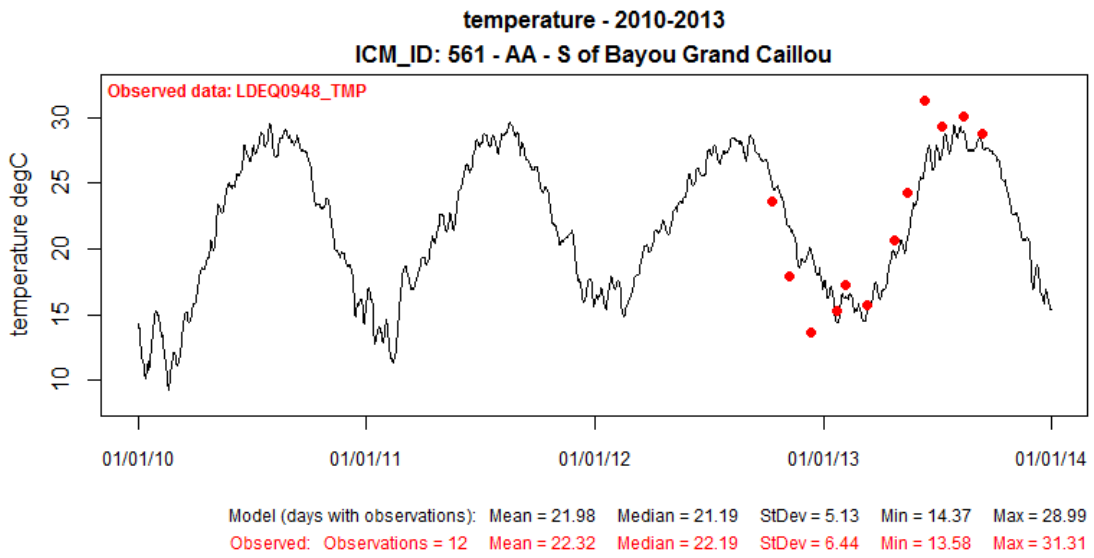

Figure 189: Modeled Temperature (degrees C) at ICM Compartment 561 (solid black line) Compared to Observed Data at LDEQ0948 for Calibration Period, 2010-2013.

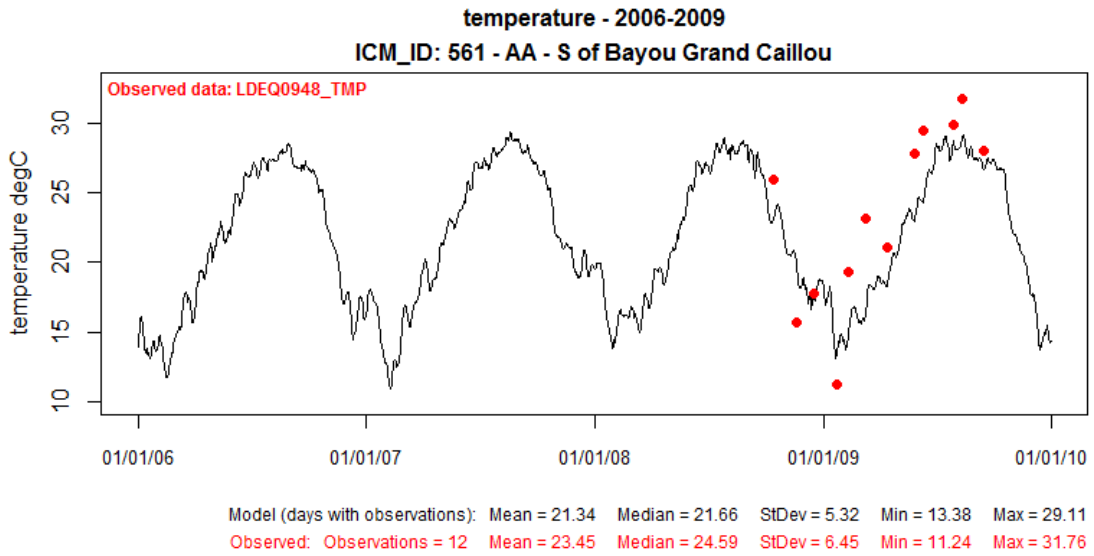

Figure 190: Modeled Temperature (degrees C) at ICM Compartment 561 (solid black line) Compared to Observed Data at LDEQ0948 for Validation Period, 2006-2009.

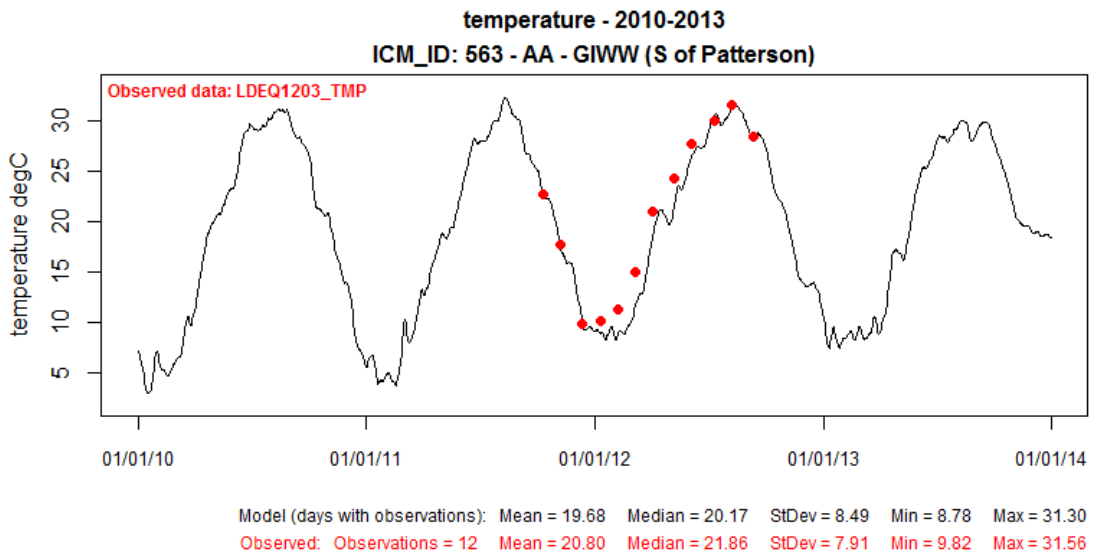

Figure 191: Modeled Temperature (degrees C) at ICM Compartment 563 (solid black line) Compared to Observed Data at LDEQ1203 for Calibration Period, 2010-2013.

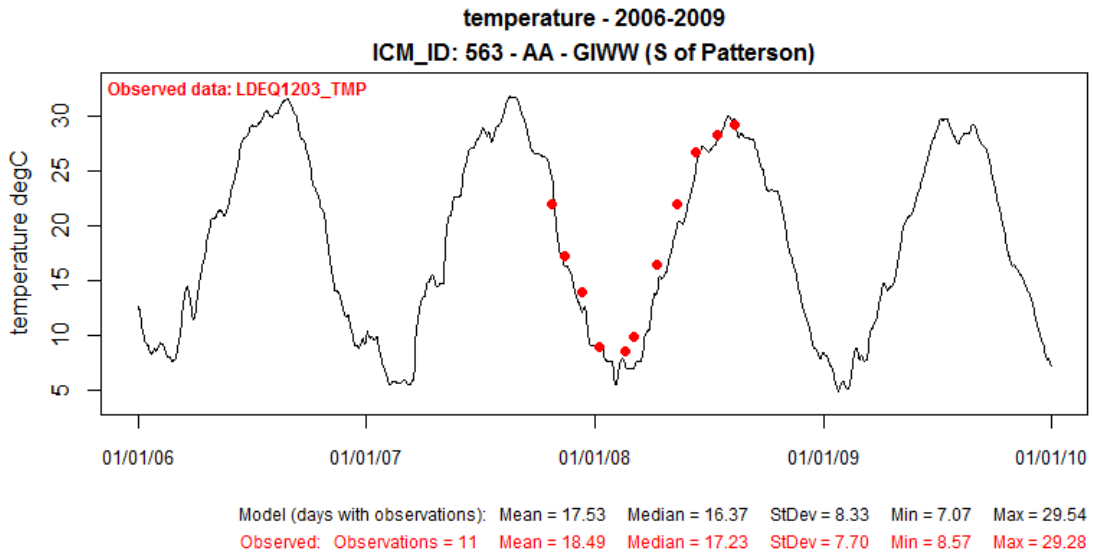

Figure 192: Modeled Temperature (degrees C) at ICM Compartment 563 (solid black line) Compared to Observed Data at LDEQ1203 for Validation Period, 2006-2009.

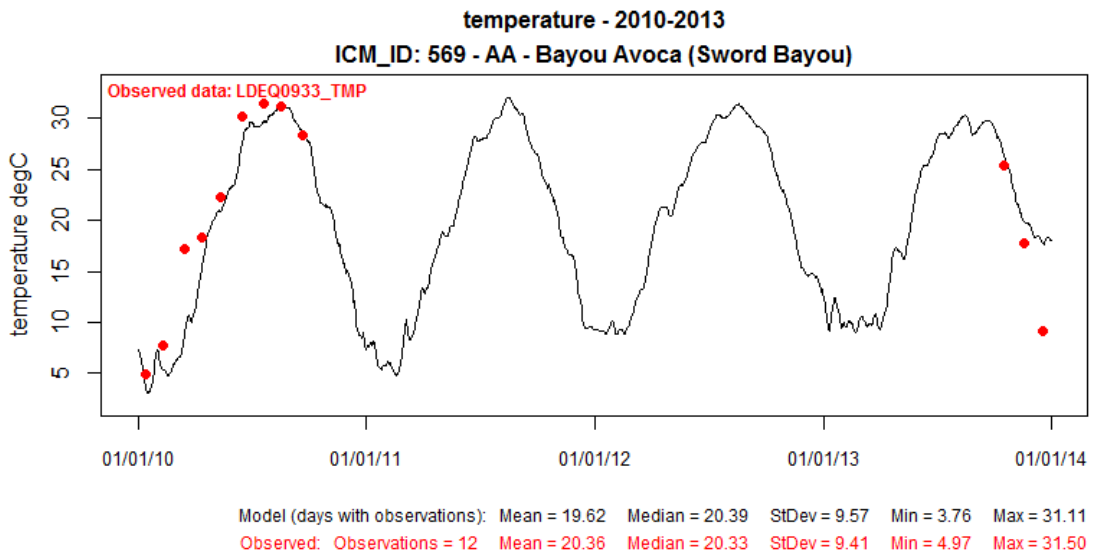

Figure 193: Modeled Temperature (degrees C) at ICM Compartment 569 (solid black line) Compared to Observed Data at LDEQ0933 for Calibration Period, 2010-2013.

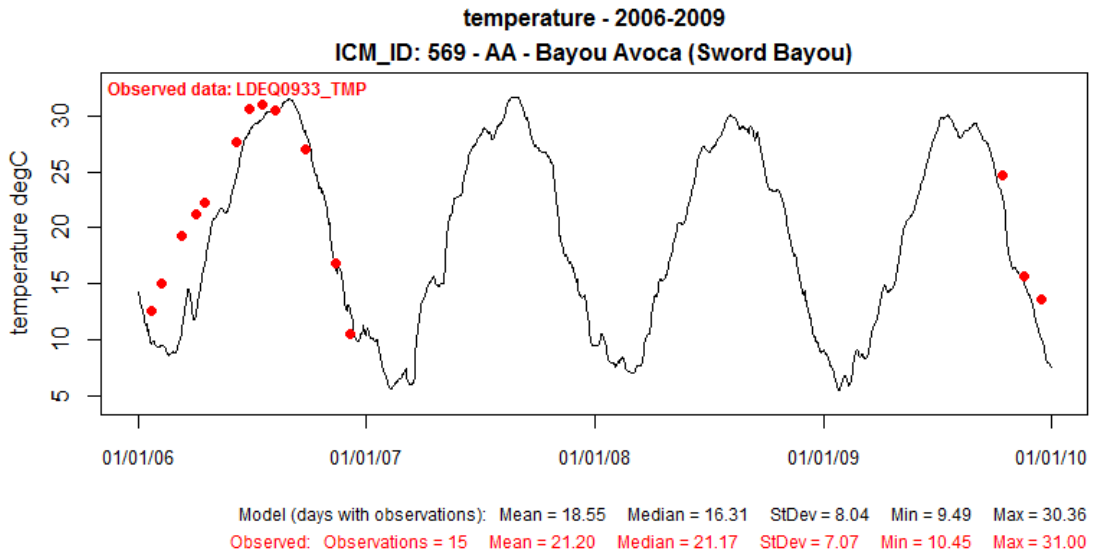

Figure 194: Modeled Temperature (degrees C) at ICM Compartment 569 (solid black line) Compared to Observed Data at LDEQ0933 for Validation Period, 2006-2009.

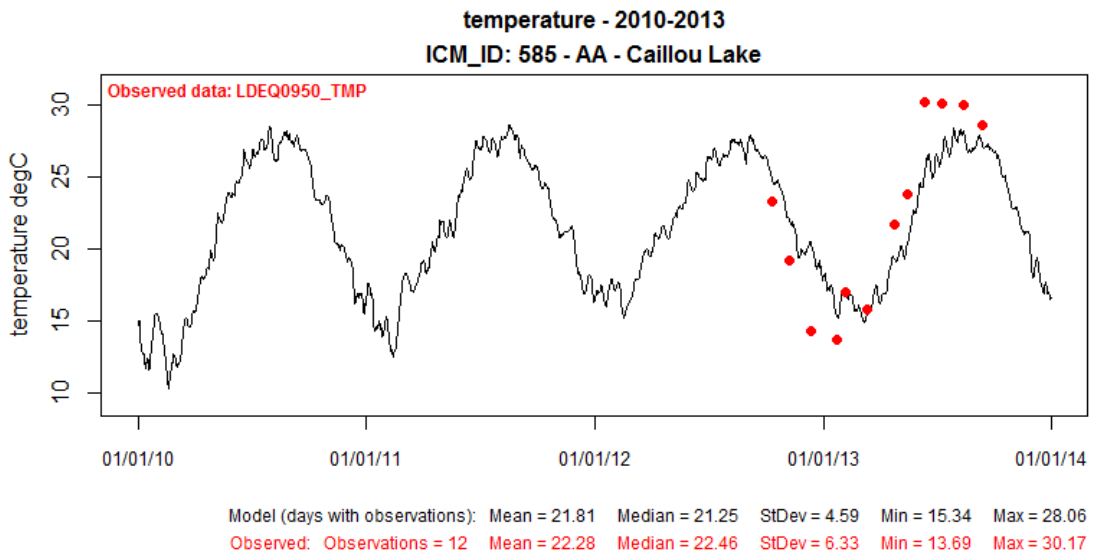

Figure 195: Modeled Temperature (degrees C) at ICM Compartment 585 (solid black line) Compared to Observed Data at LDEQ0950 for Calibration Period, 2010-2013.

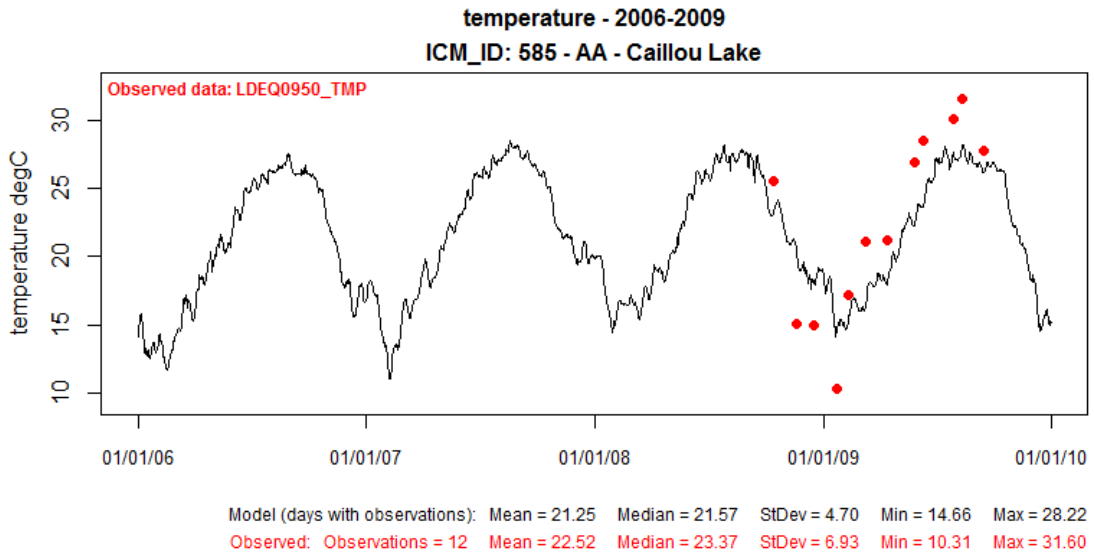

Figure 196: Modeled Temperature (degrees C) at ICM Compartment 585 (solid black line) Compared to Observed Data at LDEQ0950 for Validation Period, 2006-2009.

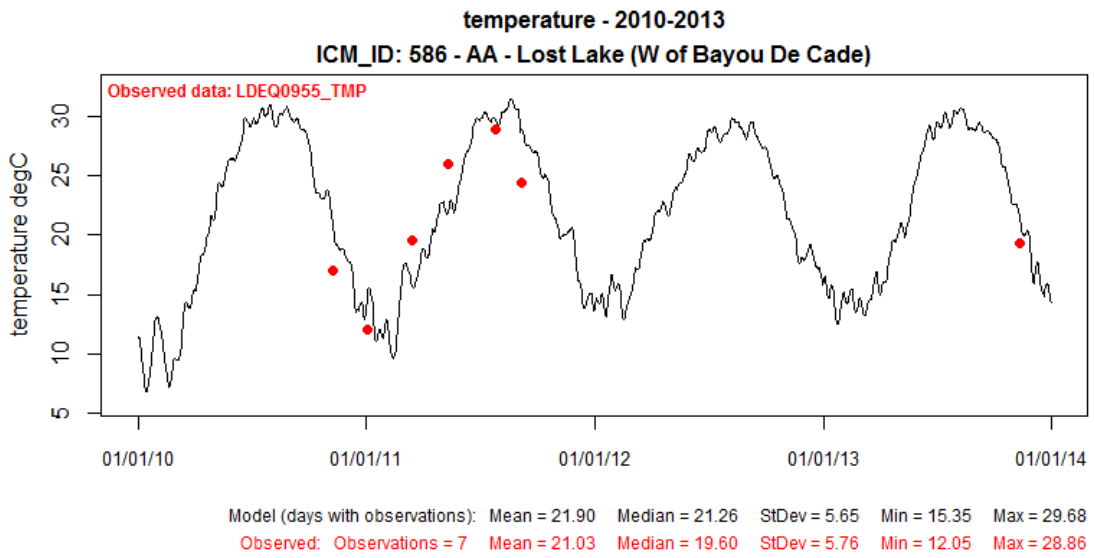

Figure 197: Modeled Temperature (degrees C) at ICM Compartment 586 (solid black line) Compared to Observed Data at LDEQ0955 for Calibration Period, 2010-2013.

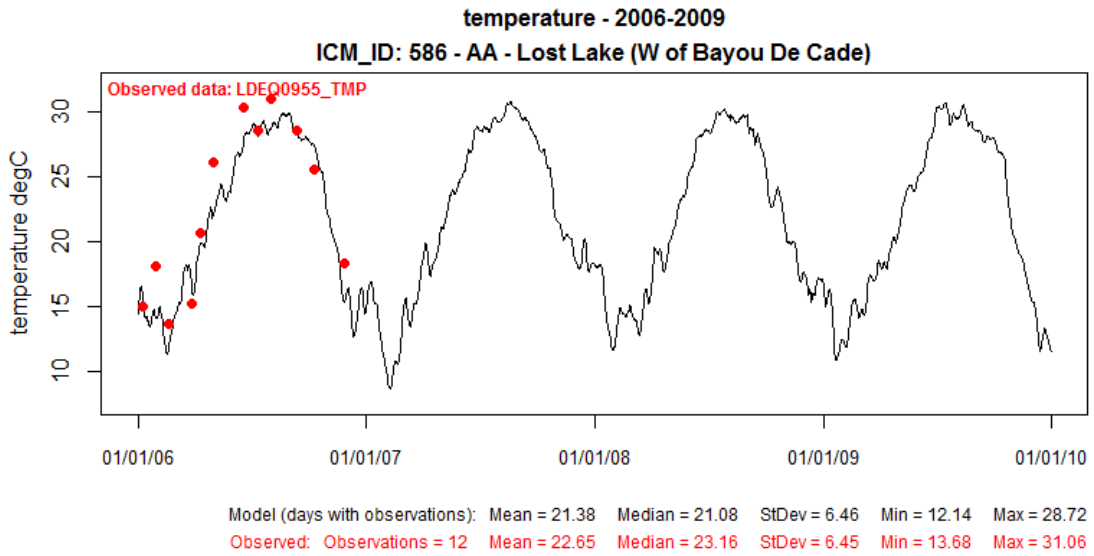

Figure 198: Modeled Temperature (degrees C) at ICM Compartment 586 (solid black line) Compared to Observed Data at LDEQ0955 for Validation Period, 2006-2009.

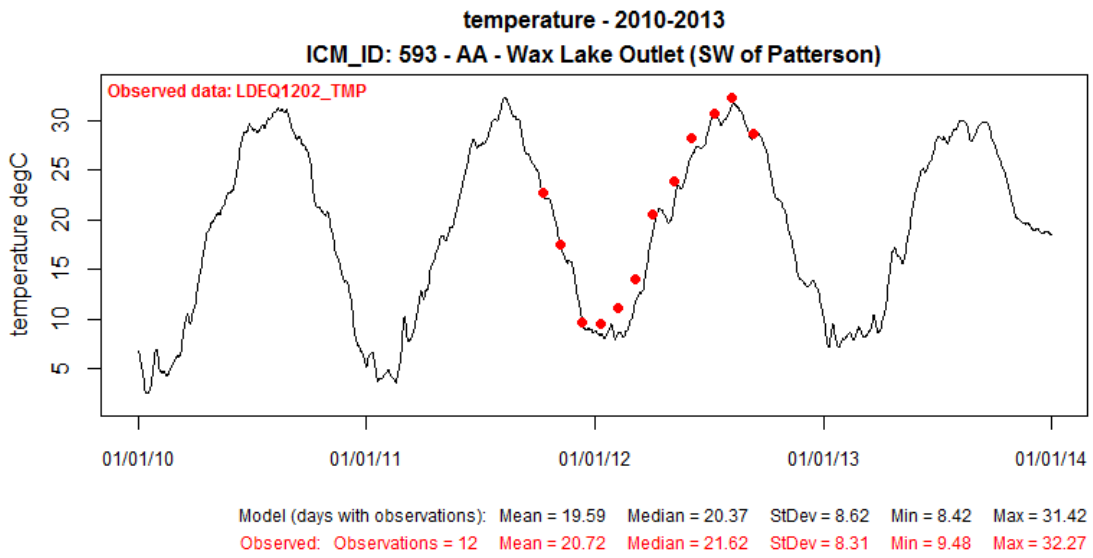

Figure 199: Modeled Temperature (degrees C) at ICM Compartment 593 (solid black line) Compared to Observed Data at LDEQ1202 for Calibration Period, 2010-2013.

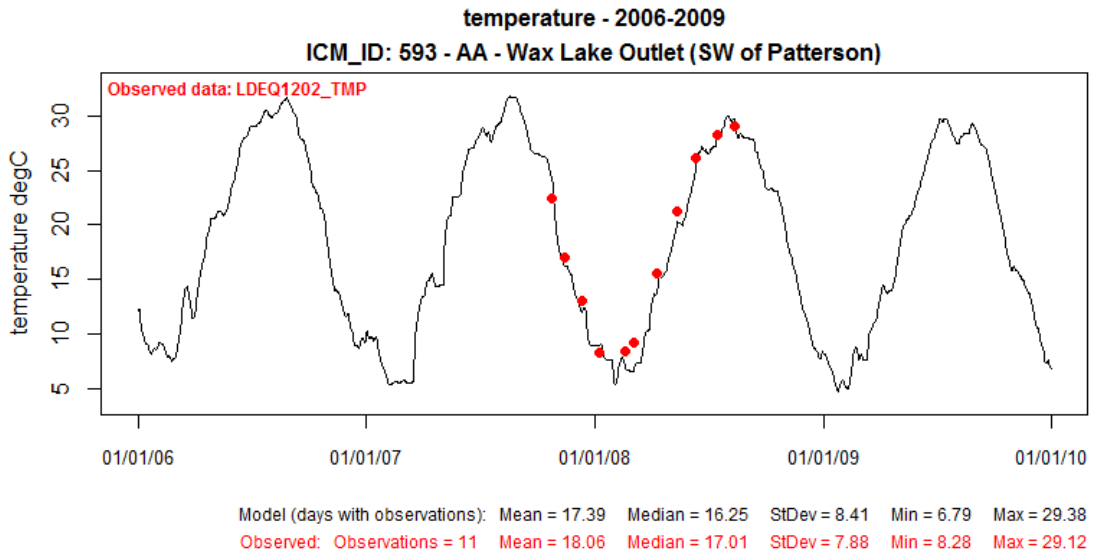

Figure 200: Modeled Temperature (degrees C) at ICM Compartment 593 (solid black line) Compared to Observed Data at LDEQ1202 for Validation Period, 2006-2009.

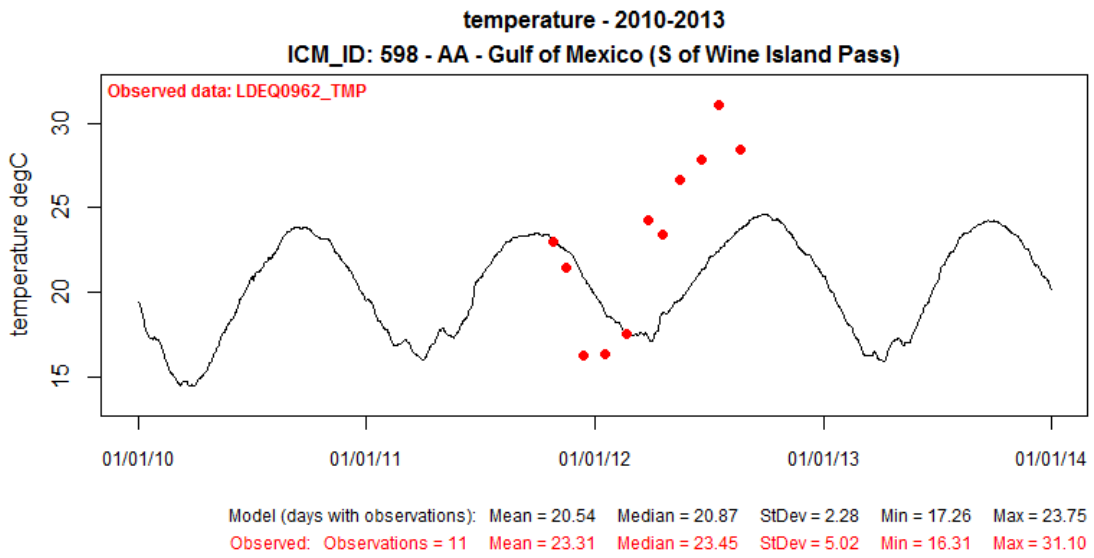

Figure 201: Modeled Temperature (degrees C) at ICM Compartment 598 (solid black line) Compared to Observed Data at LDEQ0962 for Calibration Period, 2010-2013.

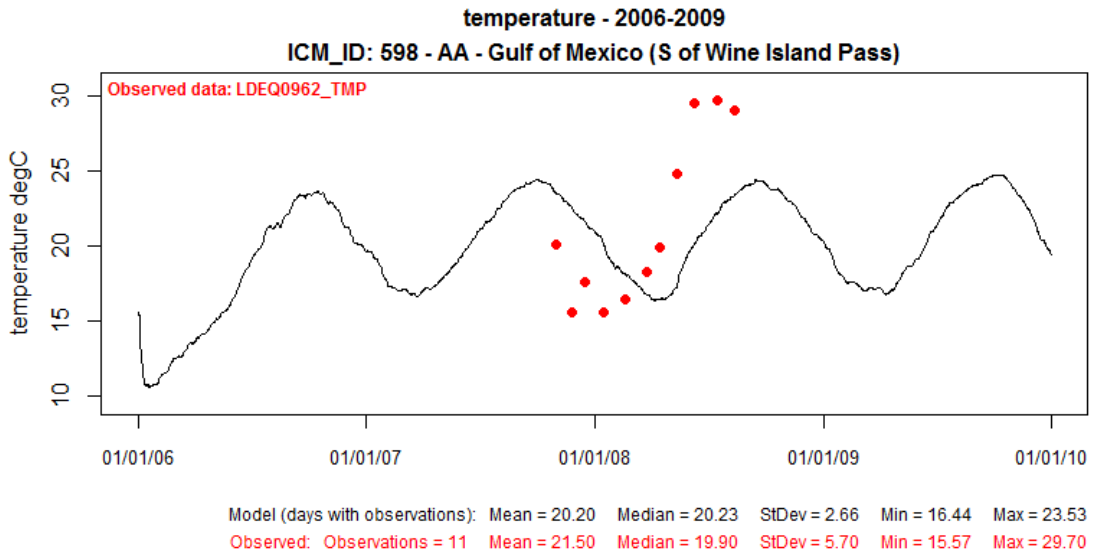

Figure 202: Modeled Temperature (degrees C) at ICM Compartment 598 (solid black line) Compared to Observed Data at LDEQ0962 for Validation Period, 2006-2009.

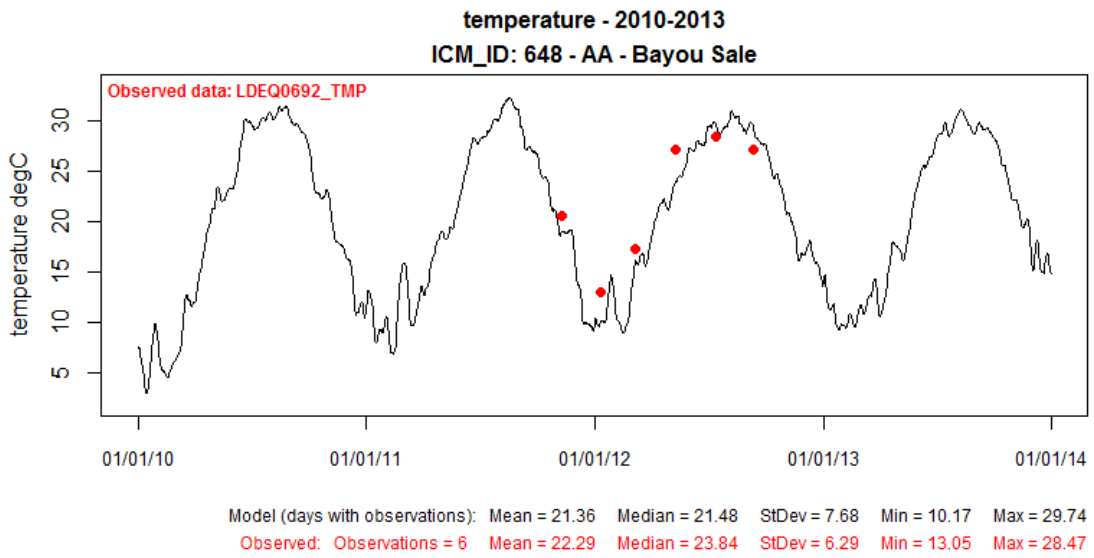

Figure 203: Modeled Temperature (degrees C) at ICM Compartment 648 (solid black line) Compared to Observed Data at LDEQ0692 for Calibration Period, 2010-2013.

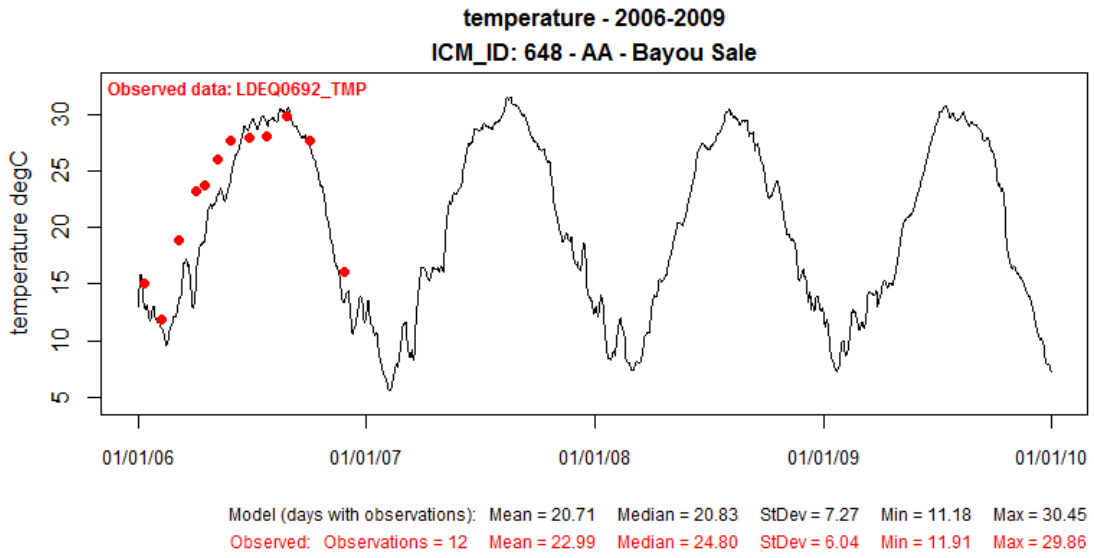

Figure 204: Modeled Temperature (degrees C) at ICM Compartment 648 (solid black line) Compared to Observed Data at LDEQ0692 for Validation Period, 2006-2009.

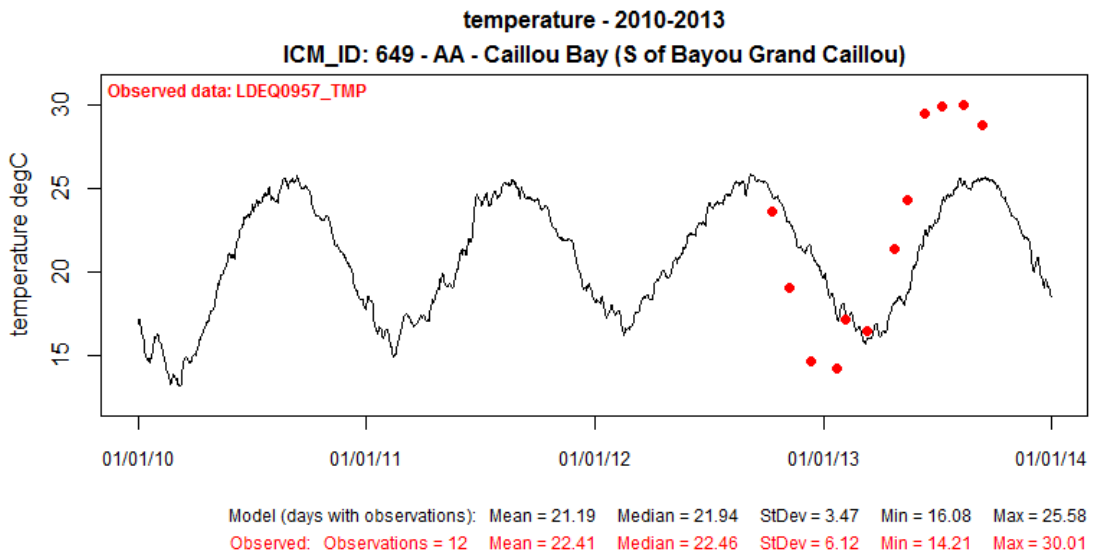

Figure 205: Modeled Temperature (degrees C) at ICM Compartment 649 (solid black line) Compared to Observed Data at LDEQ0957 for Calibration Period, 2010-2013.

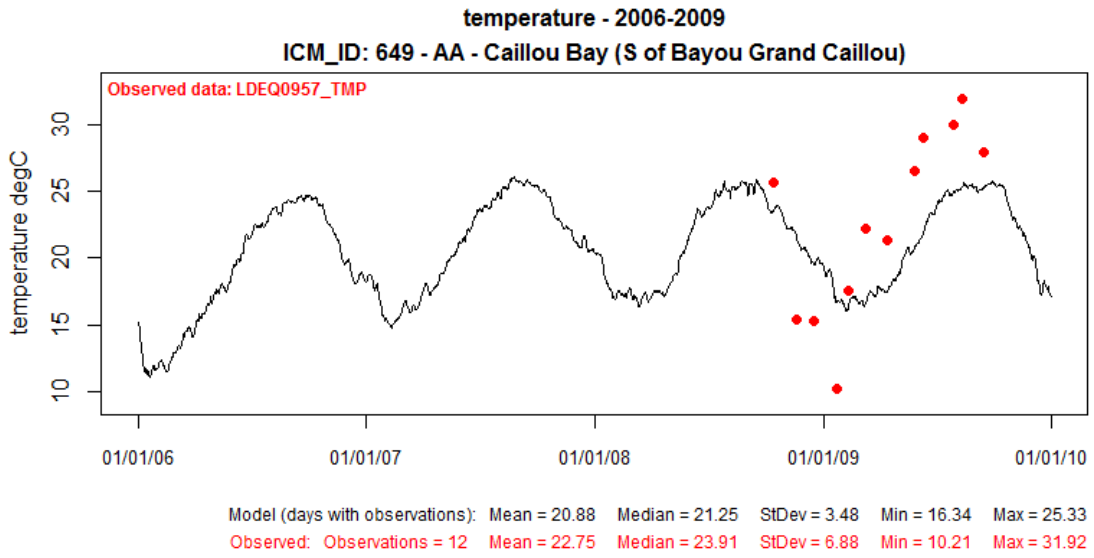

Figure 206: Modeled Temperature (degrees C) at ICM Compartment 649 (solid black line) Compared to Observed Data at LDEQ0957 for Validation Period, 2006-2009.

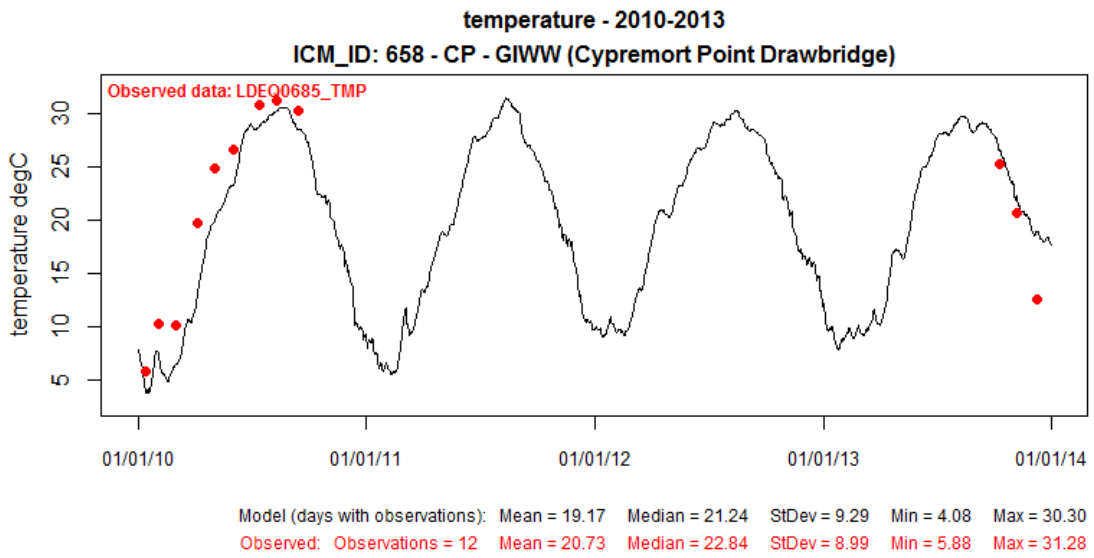

Figure 207: Modeled Temperature (degrees C) at ICM Compartment 658 (solid black line) Compared to Observed Data at LDEQ0685 for Calibration Period, 2010-2013.

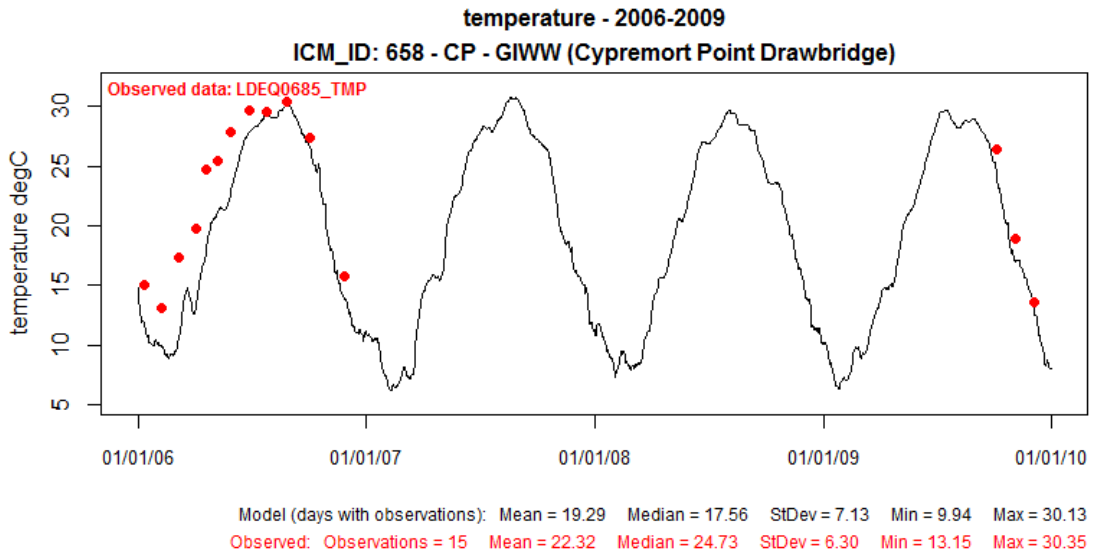

Figure 208: Modeled Temperature (degrees C) at ICM Compartment 658 (solid black line) Compared to Observed Data at LDEQ0685 for Validation Period, 2006-2009.

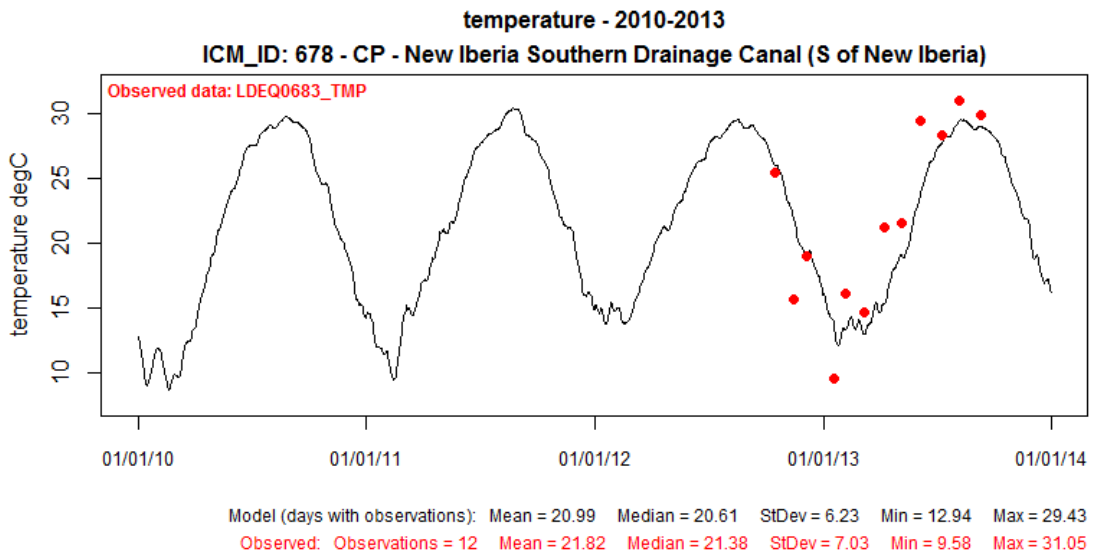

Figure 209: Modeled Temperature (degrees C) at ICM Compartment 678 (solid black line) Compared to Observed Data at LDEQ0683 for Calibration Period, 2010-2013.

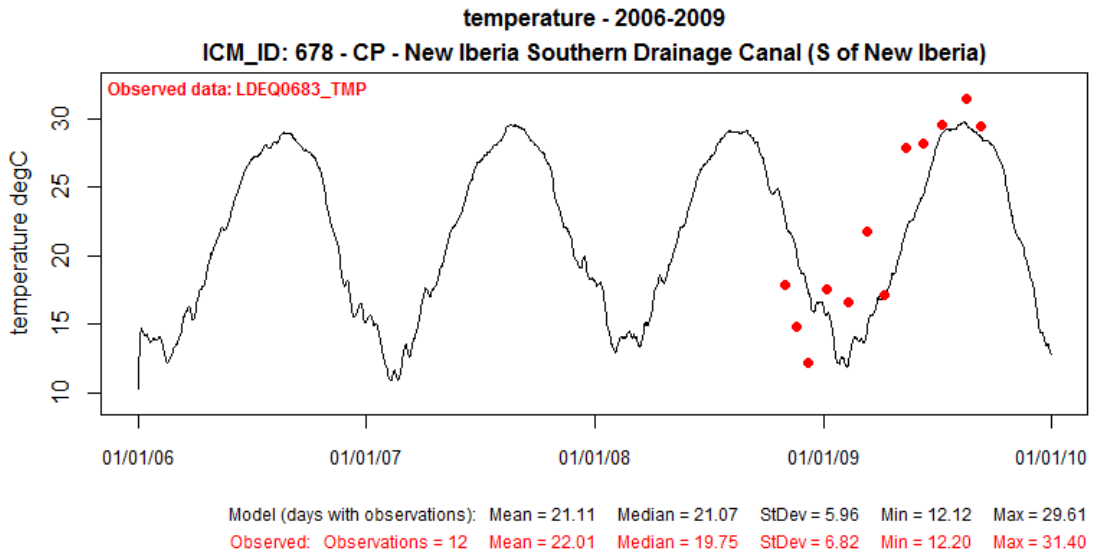

Figure 210: Modeled Temperature (degrees C) at ICM Compartment 678 (solid black line) Compared to Observed Data at LDEQ0683 for Validation Period, 2006-2009.

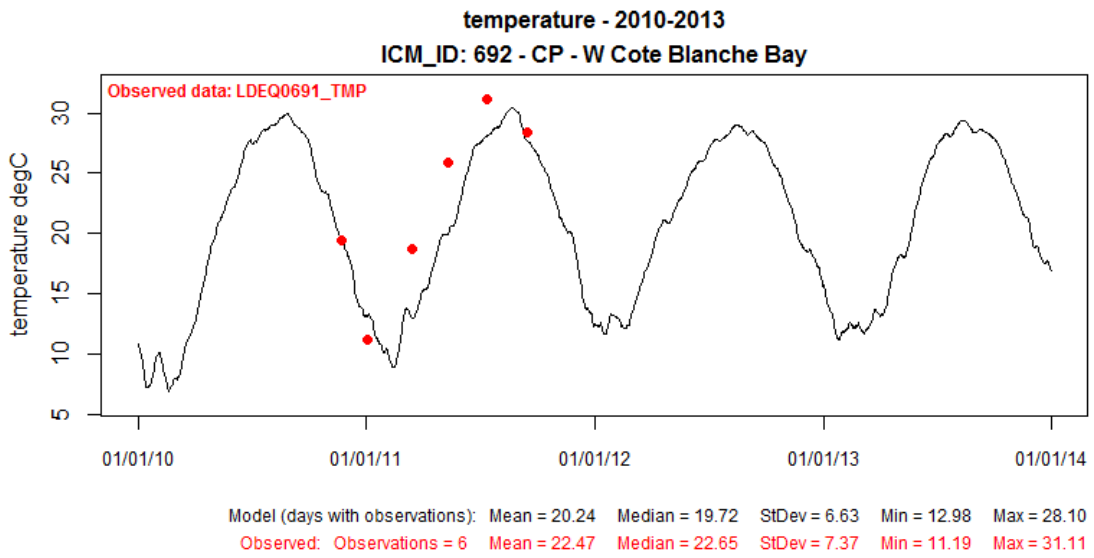

Figure 211: Modeled Temperature (degrees C) at ICM Compartment 692 (solid black line) Compared to Observed Data at LDEQ0691 for Calibration Period, 2010-2013.

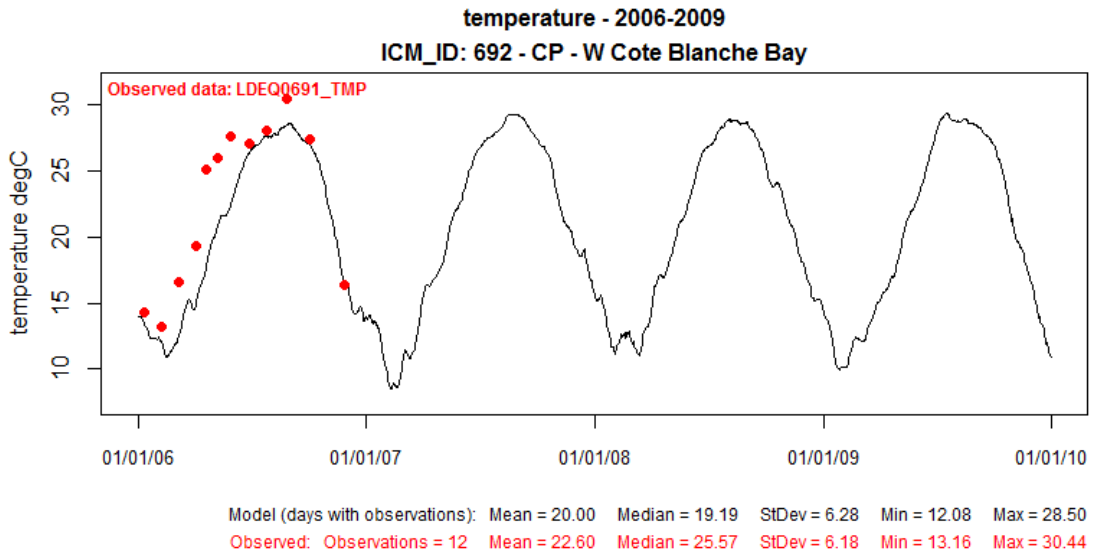

Figure 212: Modeled Temperature (degrees C) at ICM Compartment 692 (solid black line) Compared to Observed Data at LDEQ0691 for Validation Period, 2006-2009.

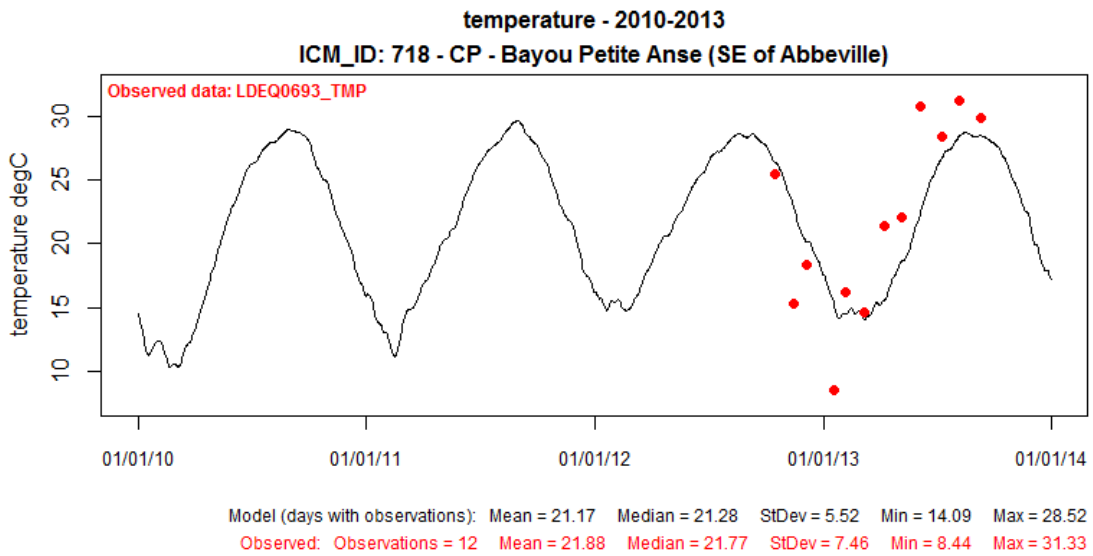

Figure 213: Modeled Temperature (degrees C) at ICM Compartment 718 (solid black line) Compared to Observed Data at LDEQ0693 for Calibration Period, 2010-2013.

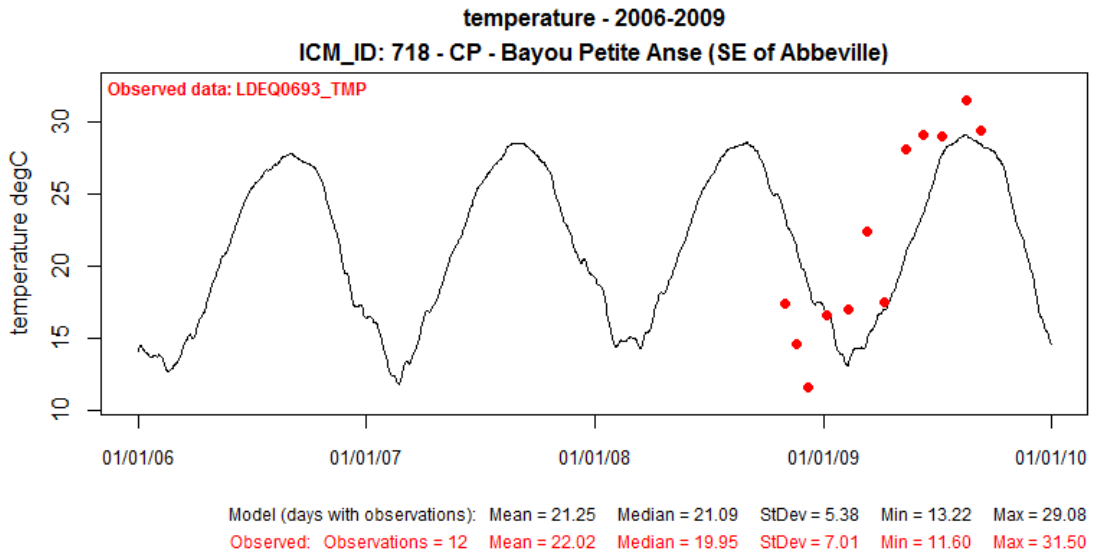

Figure 214: Modeled Temperature (degrees C) at ICM Compartment 718 (solid black line) Compared to Observed Data at LDEQ0693 for Validation Period, 2006-2009.

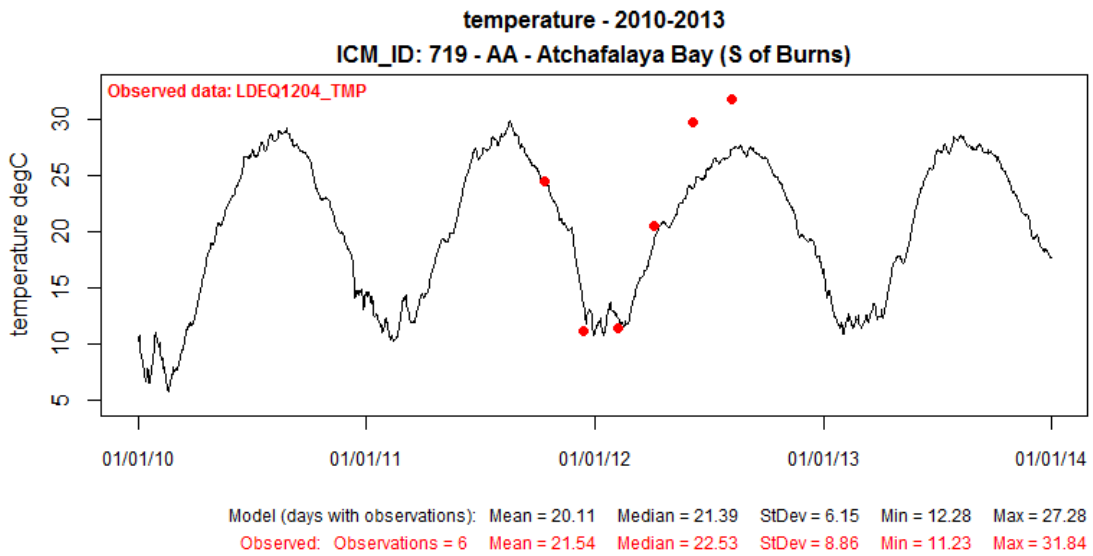

Figure 215: Modeled Temperature (degrees C) at ICM Compartment 719 (solid black line) Compared to Observed Data at LDEQ1204 for Calibration Period, 2010-2013.

Figure 216: No Validation Figure for ICM Compartment 719.

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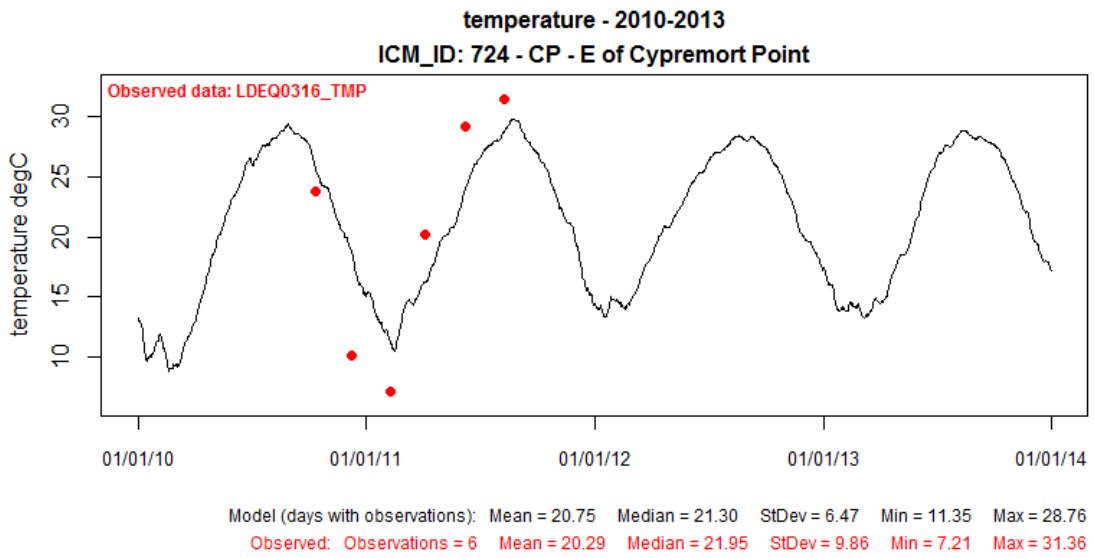

Figure 217: Modeled Temperature (degrees C) at ICM Compartment 724 (solid black line) Compared to Observed Data at LDEQ0316 for Calibration Period, 2010-2013.

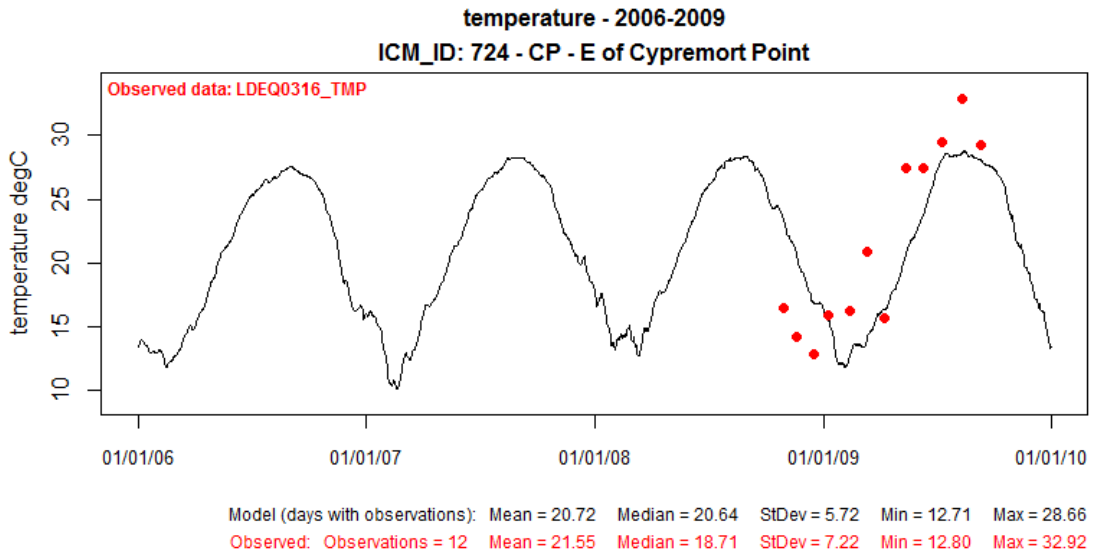

Figure 218: Modeled Temperature (degrees C) at ICM Compartment 724 (solid black line) Compared to Observed Data at LDEQ0316 for Validation Period, 2006-2009.

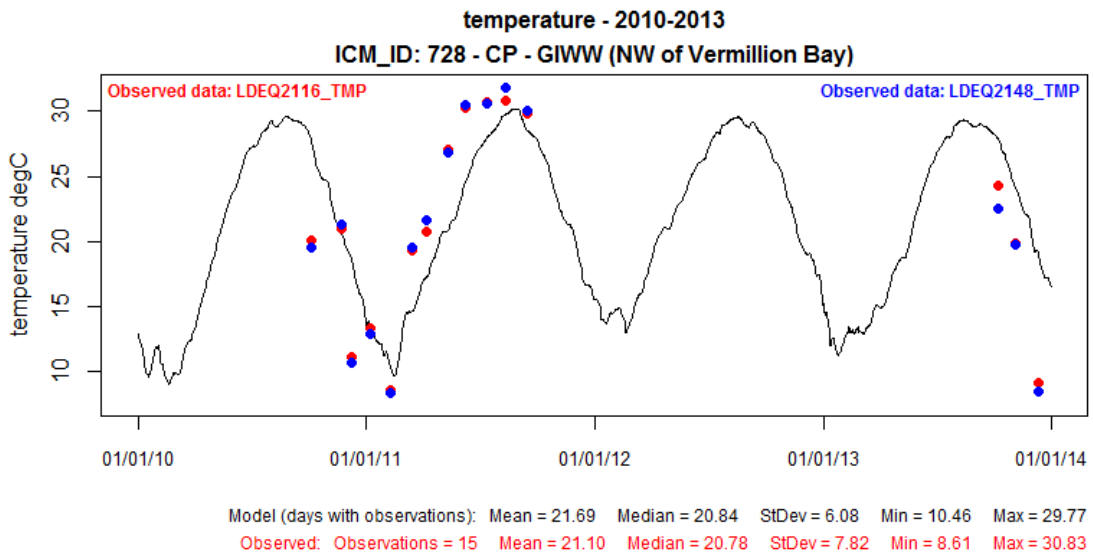

Figure 219: Modeled Temperature (degrees C) at ICM Compartment 728 (solid black line) Compared to Observed Data at LDEQ2116 for Calibration Period, 2010-2013.

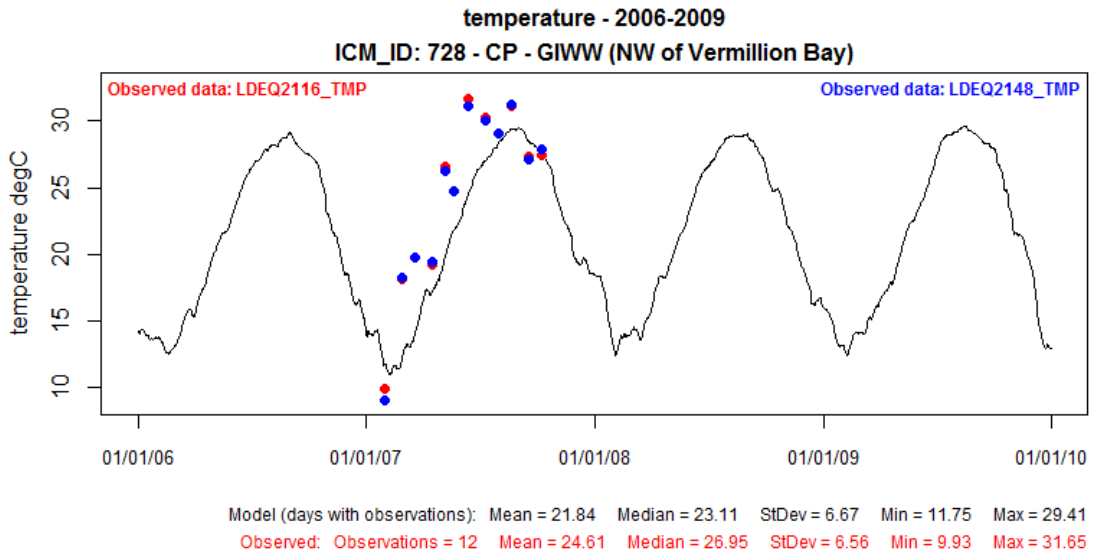

Figure 220: Modeled Temperature (degrees C) at ICM Compartment 728 (solid black line) Compared to Observed Data at LDEQ2116 for Validation Period, 2006-2009.

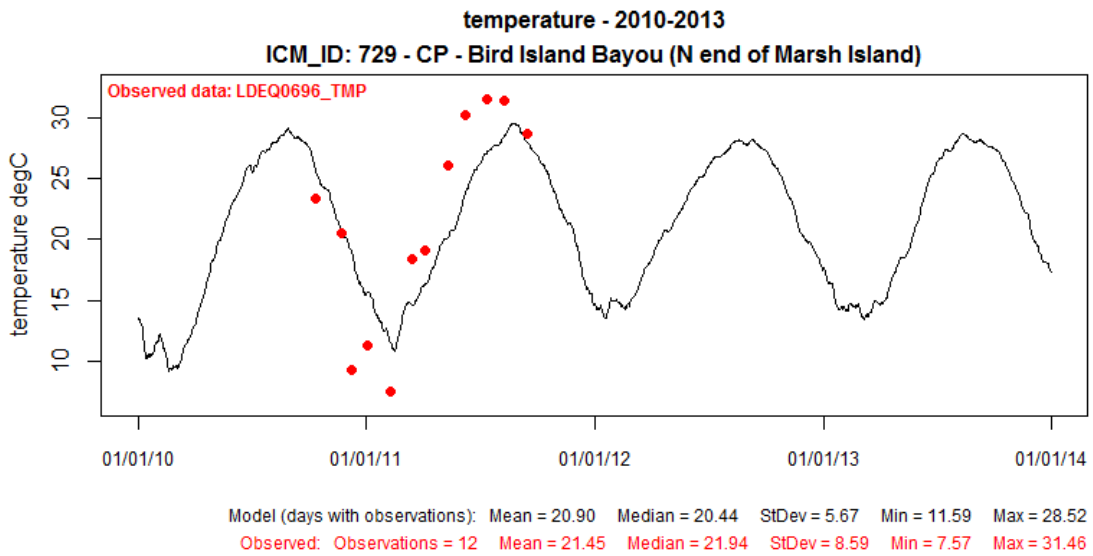

Figure 221: Modeled Temperature (degrees C) at ICM Compartment 729 (solid black line) Compared to Observed Data at LDEQ0696 for Calibration Period, 2010-2013.

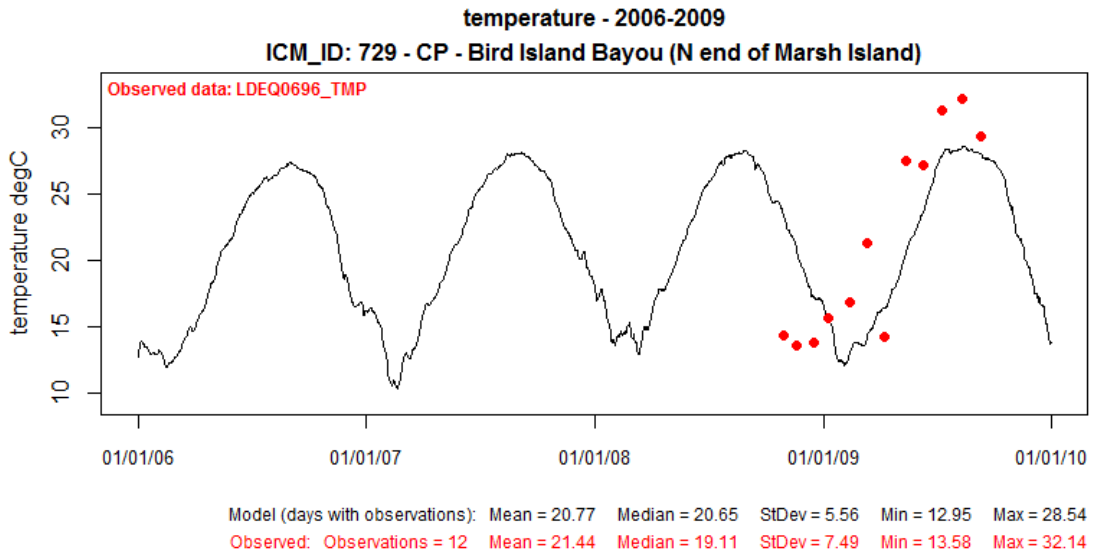

Figure 222: Modeled Temperature (degrees C) at ICM Compartment 729 (solid black line) Compared to Observed Data at LDEQ0696 for Validation Period, 2006-2009.

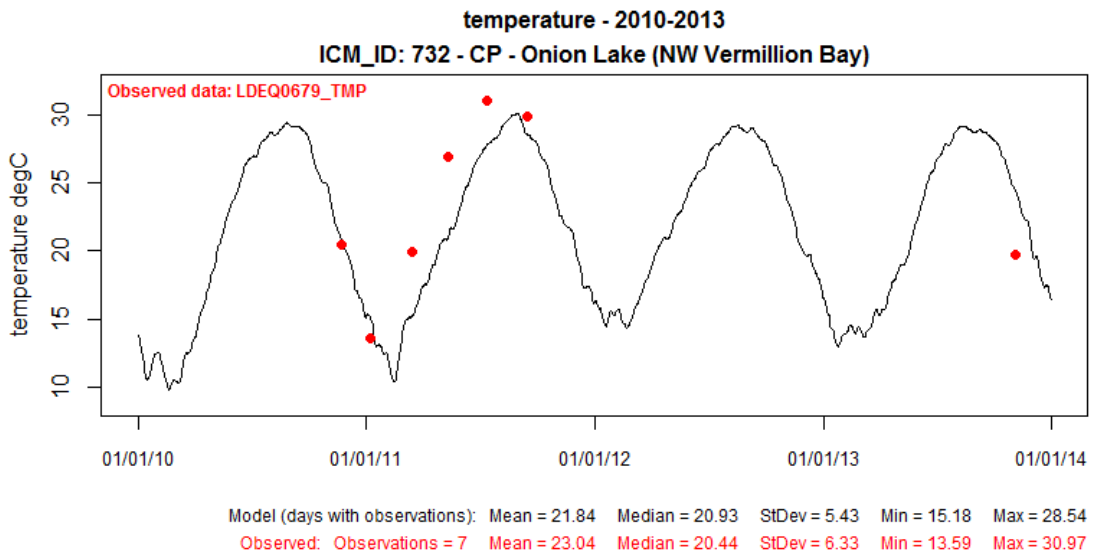

Figure 223: Modeled Temperature (degrees C) at ICM Compartment 732 (solid black line) Compared to Observed Data at LDEQ0679 for Calibration Period, 2010-2013.

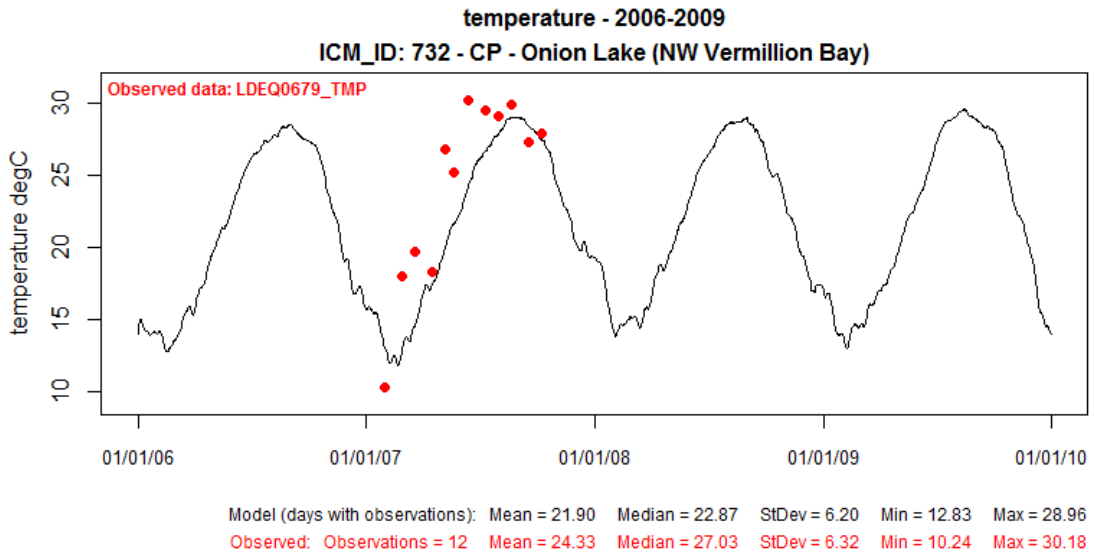

Figure 224: Modeled Temperature (degrees C) at ICM Compartment 732 (solid black line) Compared to Observed Data at LDEQ0679 for Validation Period, 2006-2009.

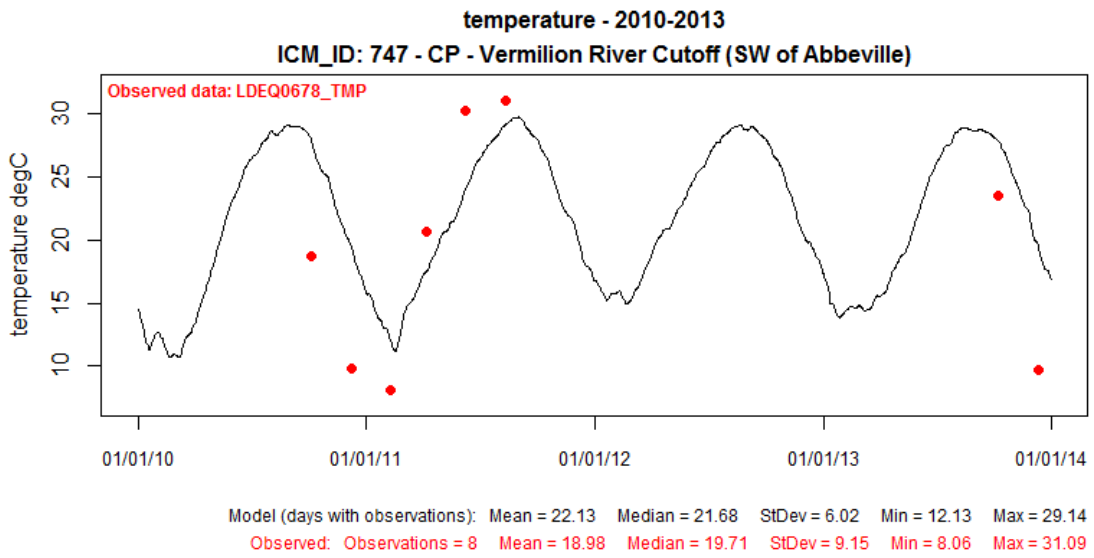

Figure 225: Modeled Temperature (degrees C) at ICM Compartment 747 (solid black line) Compared to Observed Data at LDEQ0678 for Calibration Period, 2010-2013.

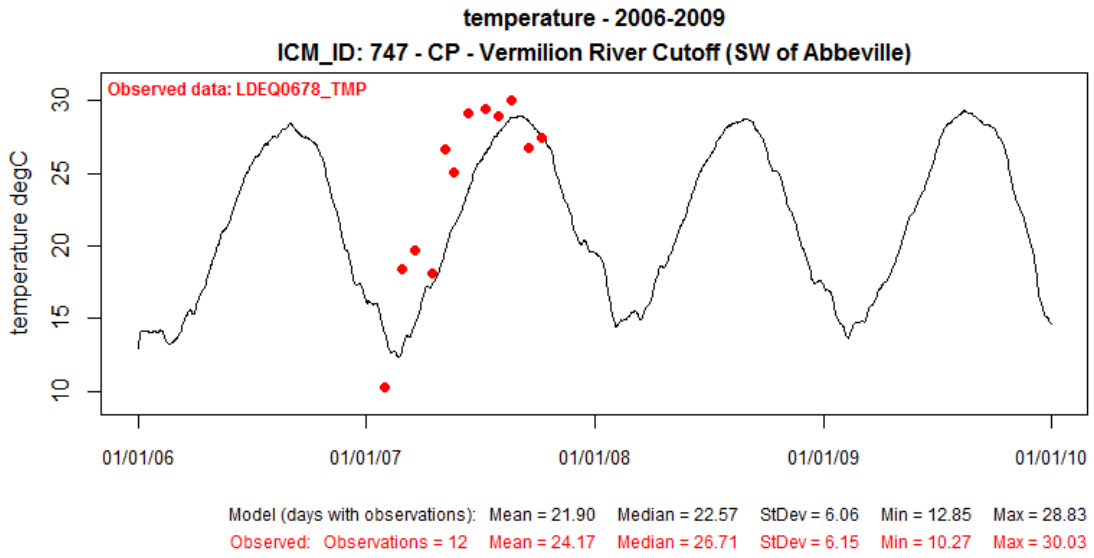

Figure 226: Modeled Temperature (degrees C) at ICM Compartment 747 (solid black line) Compared to Observed Data at LDEQ0678 for Validation Period, 2006-2009.

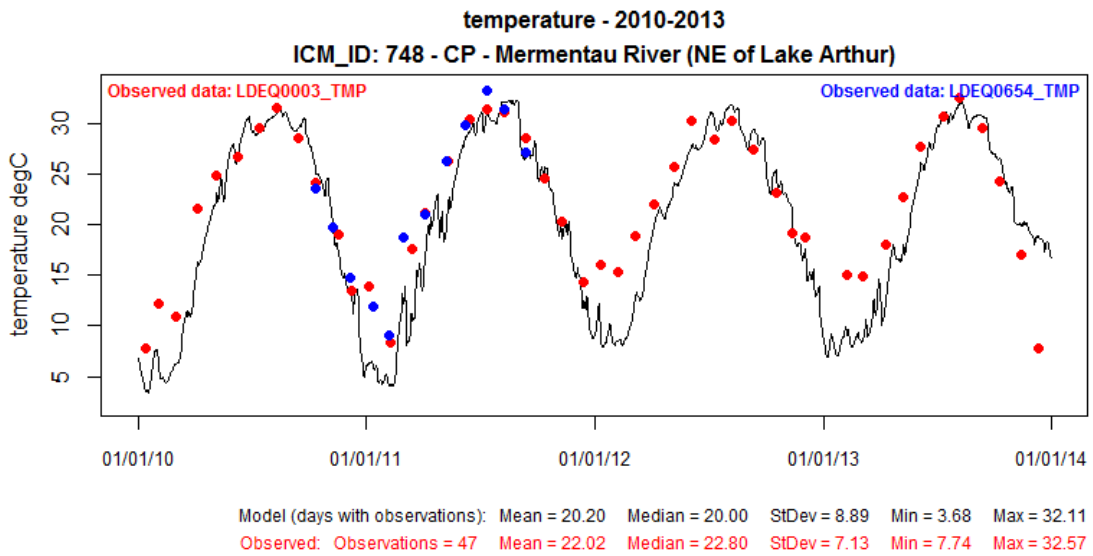

Figure 227: Modeled Temperature (degrees C) at ICM Compartment 748 (solid black line) Compared to Observed Data at LDEQ0003 for Calibration Period, 2010-2013.

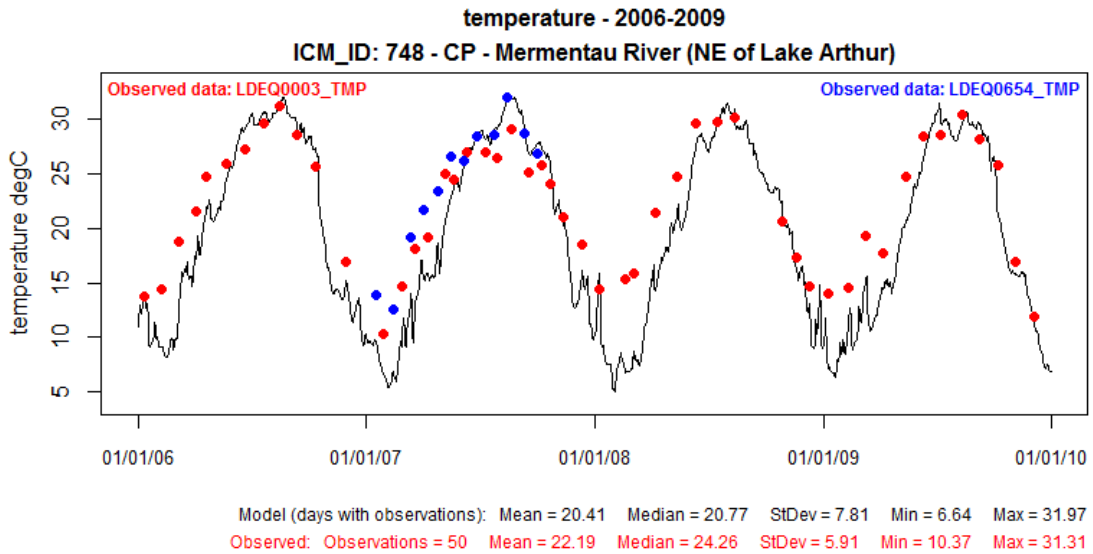

Figure 228: Modeled Temperature (degrees C) at ICM Compartment 748 (solid black line) Compared to Observed Data at LDEQ0003 for Validation Period, 2006-2009.

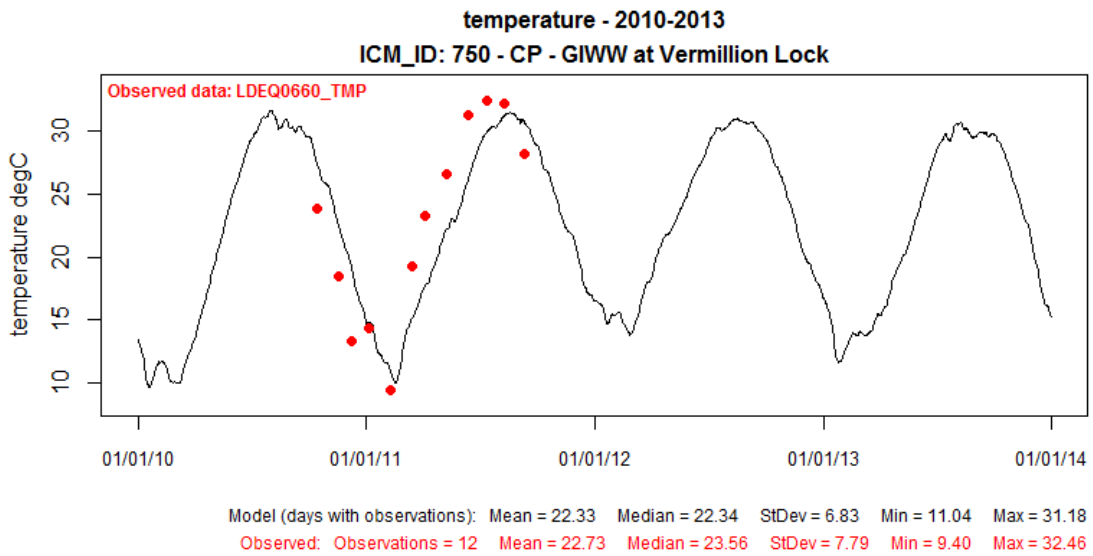

Figure 229: Modeled Temperature (degrees C) at ICM Compartment 750 (solid black line) Compared to Observed Data at LDEQ0660 for Calibration Period, 2010-2013.

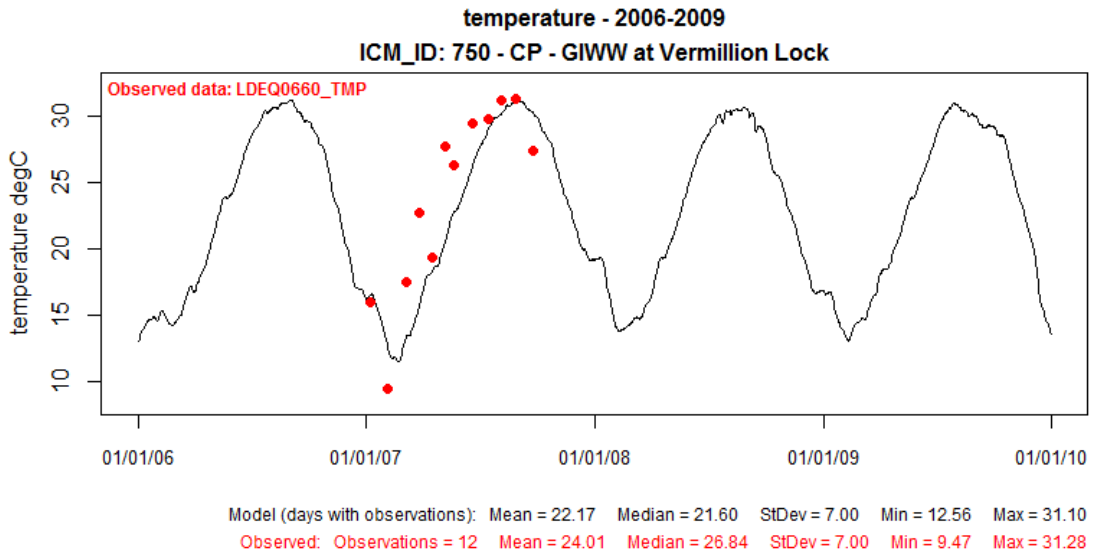

Figure 230: Modeled Temperature (degrees C) at ICM Compartment 750 (solid black line) Compared to Observed Data at LDEQ0660 for Validation Period, 2006-2009.

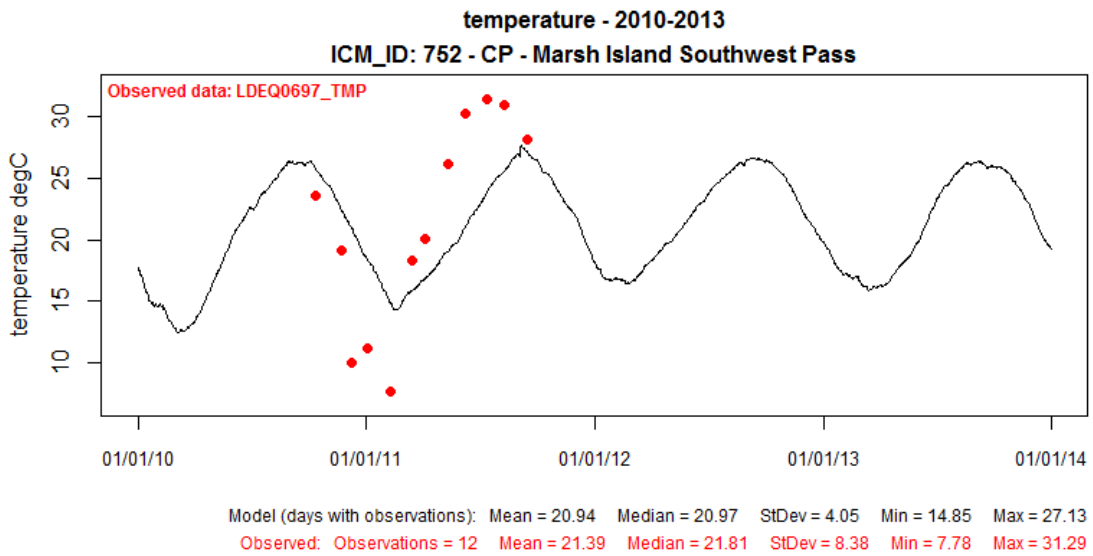

Figure 231: Modeled Temperature (degrees C) at ICM Compartment 752 (solid black line) Compared to Observed Data at LDEQ0697 for Calibration Period, 2010-2013.

Figure 232: No Validation Figure for ICM Compartment 752.

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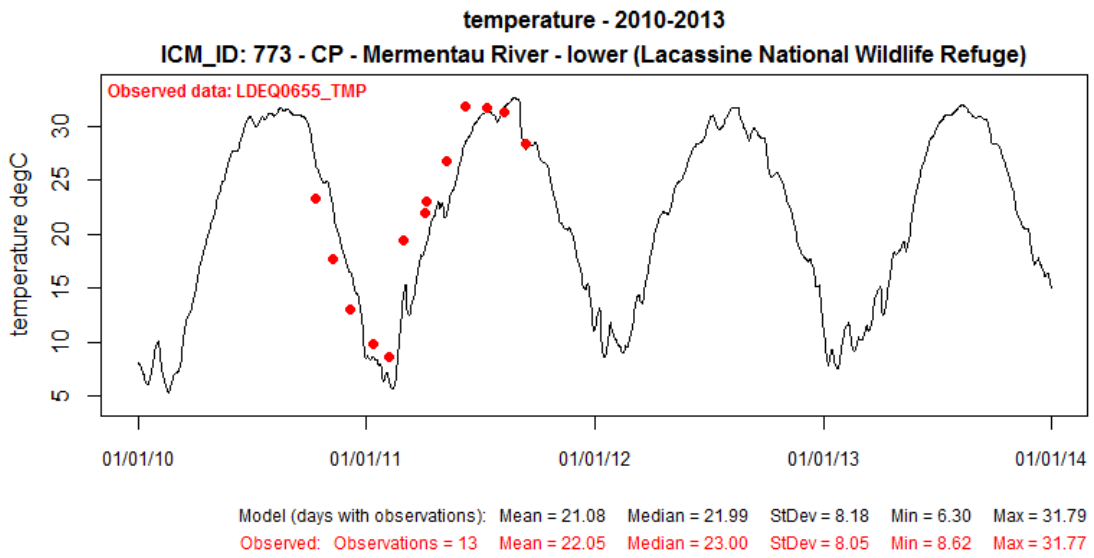

Figure 233: Modeled Temperature (degrees C) at ICM Compartment 773 (solid black line) Compared to Observed Data at LDEQ0655 for Calibration Period, 2010-2013.

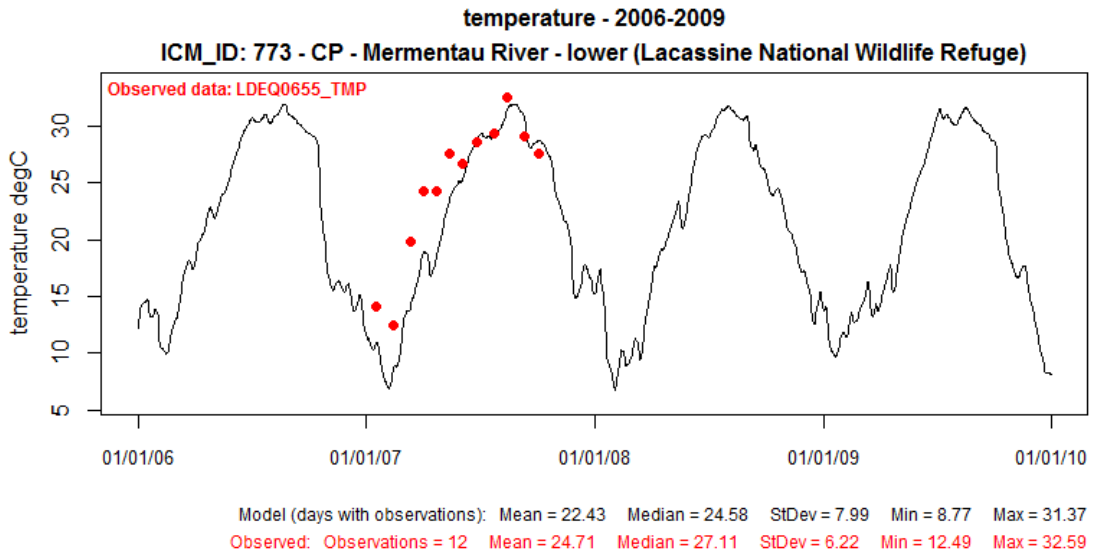

Figure 234: Modeled Temperature (degrees C) at ICM Compartment 773 (solid black line) Compared to Observed Data at LDEQ0655 for Validation Period, 2006-2009.

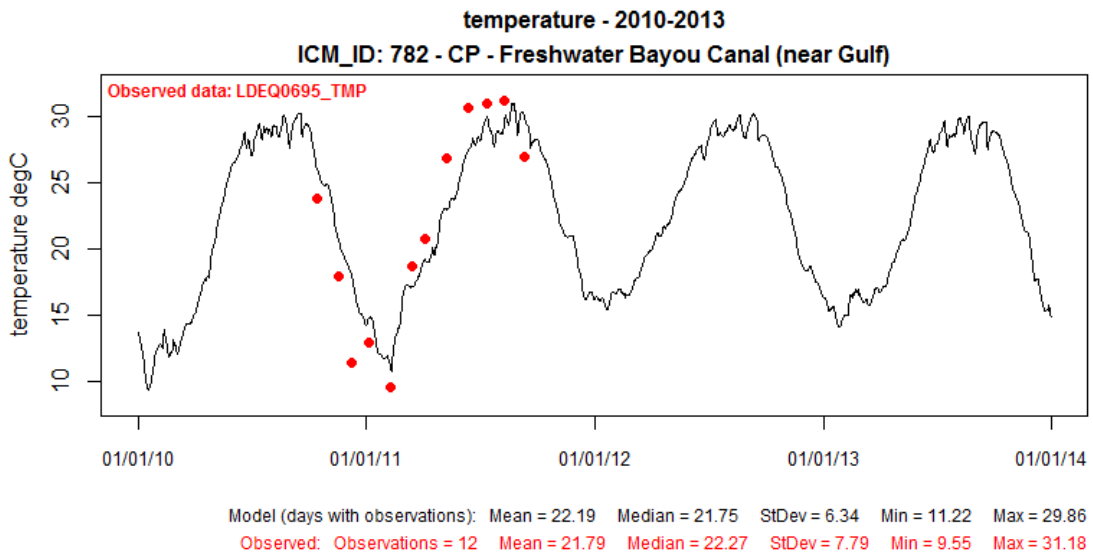

Figure 235: Modeled Temperature (degrees C) at ICM Compartment 782 (solid black line) Compared to Observed Data at LDEQ0695 for Calibration Period, 2010-2013.

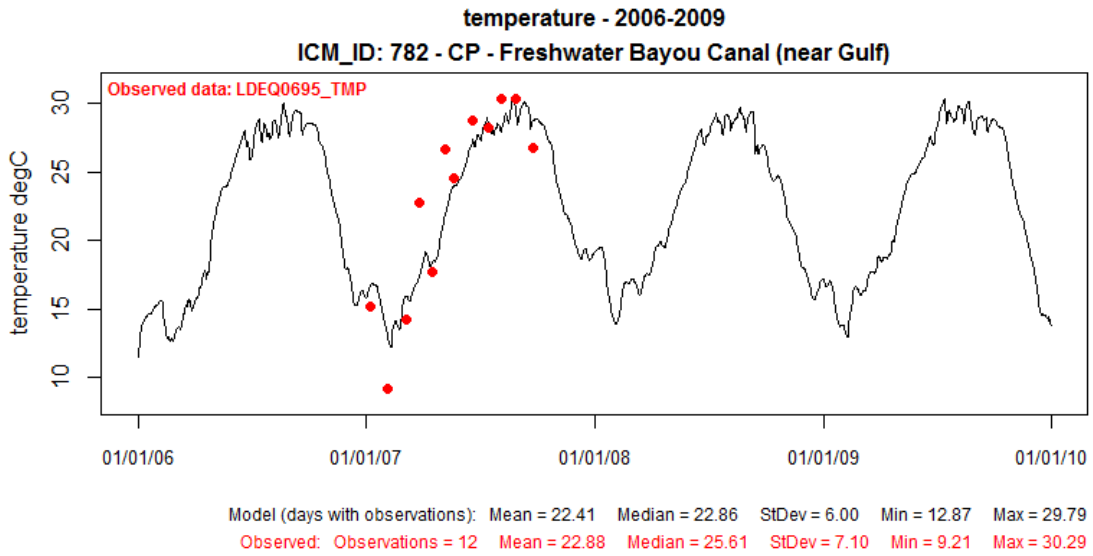

Figure 236: Modeled Temperature (degrees C) at ICM Compartment 782 (solid black line) Compared to Observed Data at LDEQ0695 for Validation Period, 2006-2009.

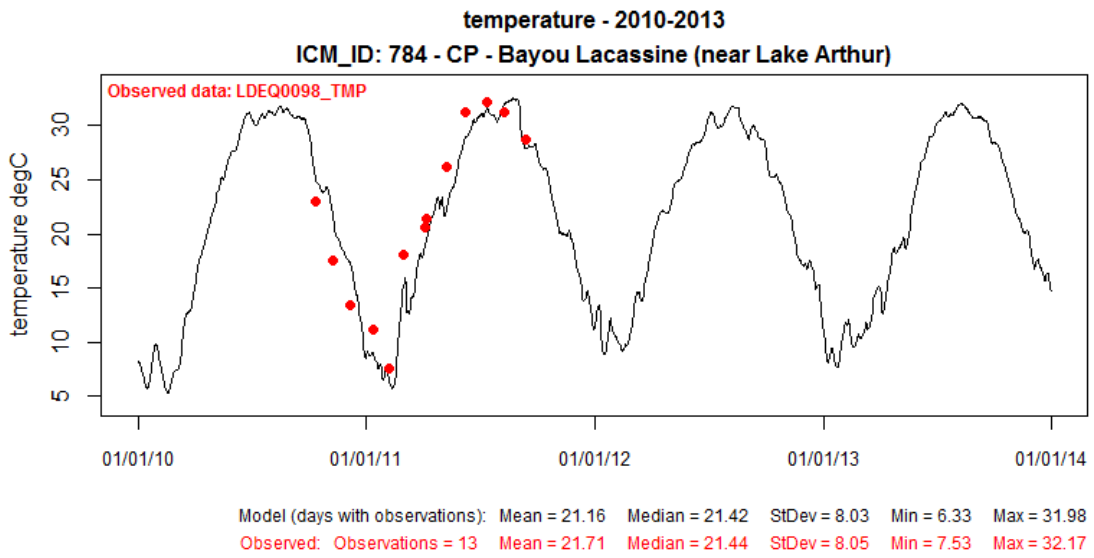

Figure 237: Modeled Temperature (degrees C) at ICM Compartment 784 (solid black line) Compared to Observed Data at LDEQ0098 for Calibration Period, 2010-2013.

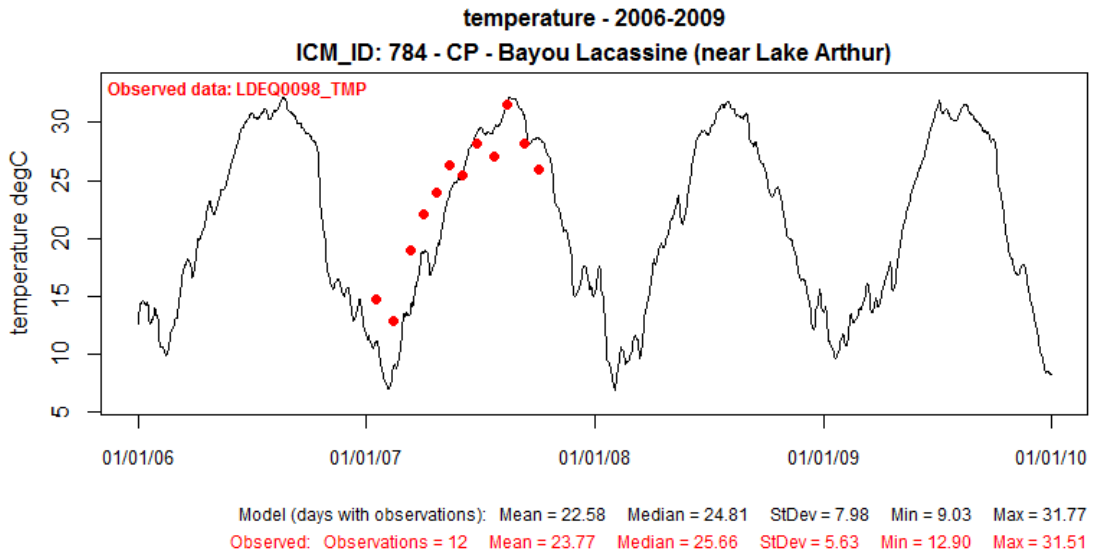

Figure 238: Modeled Temperature (degrees C) at ICM Compartment 784 (solid black line) Compared to Observed Data at LDEQ0098 for Validation Period, 2006-2009.

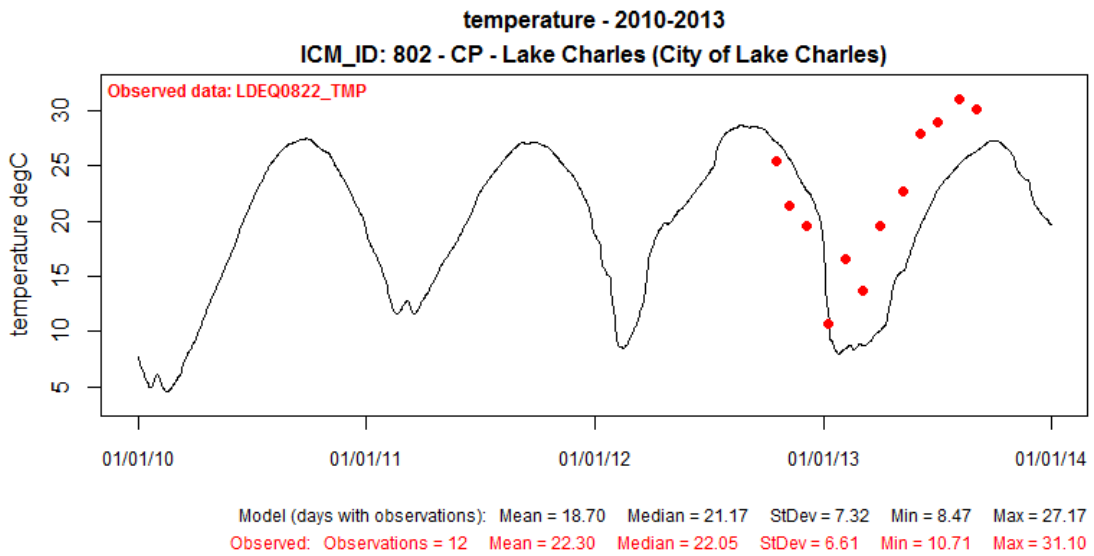

Figure 239: Modeled Temperature (degrees C) at ICM Compartment 802 (solid black line) Compared to Observed Data at LDEQ0822 for Calibration Period, 2010-2013.

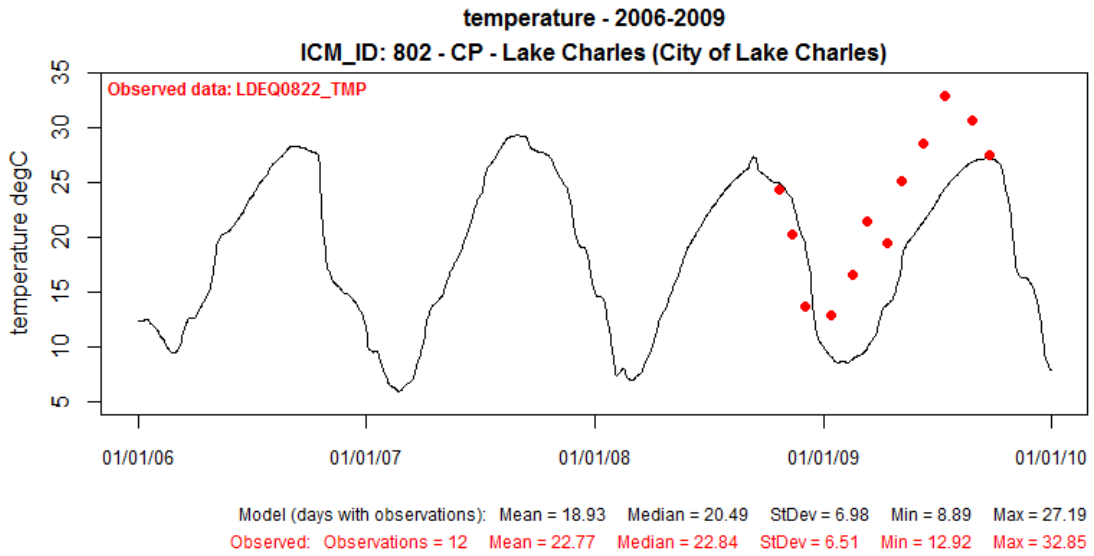

Figure 240: Modeled Temperature (degrees C) at ICM Compartment 802 (solid black line) Compared to Observed Data at LDEQ0822 for Validation Period, 2006-2009.

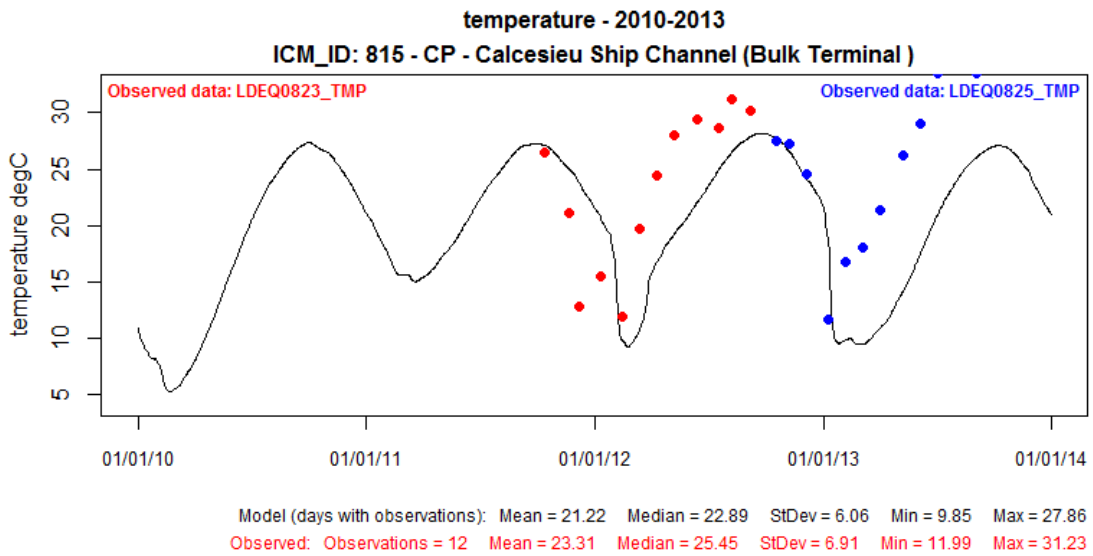

Figure 241: Modeled Temperature (degrees C) at ICM Compartment 815 (solid black line) Compared to Observed Data at LDEQ0823 for Calibration Period, 2010-2013.

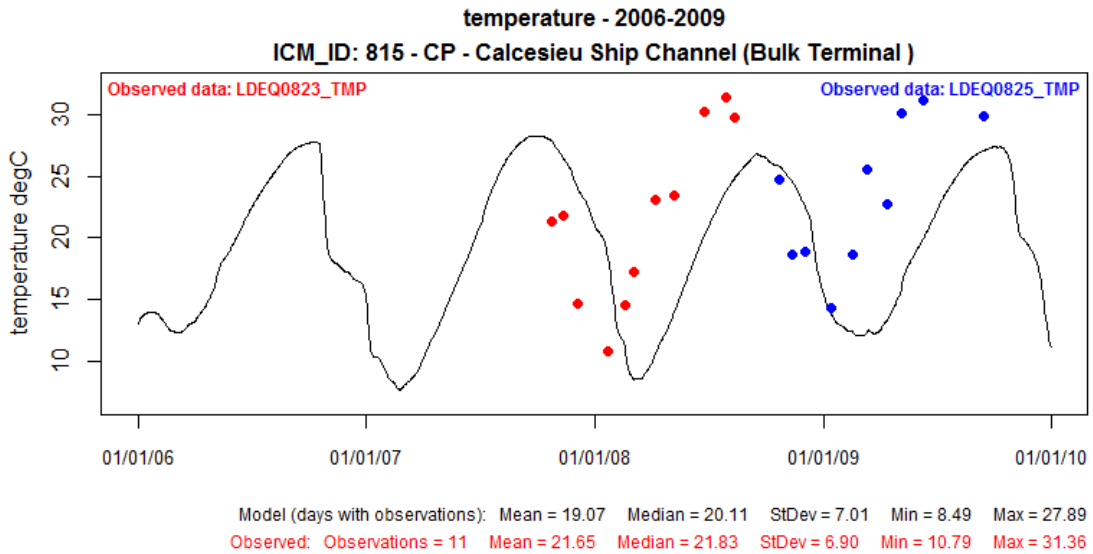

Figure 242: Modeled Temperature (degrees C) at ICM Compartment 815 (solid black line) Compared to Observed Data at LDEQ0823 for Validation Period, 2006-2009.

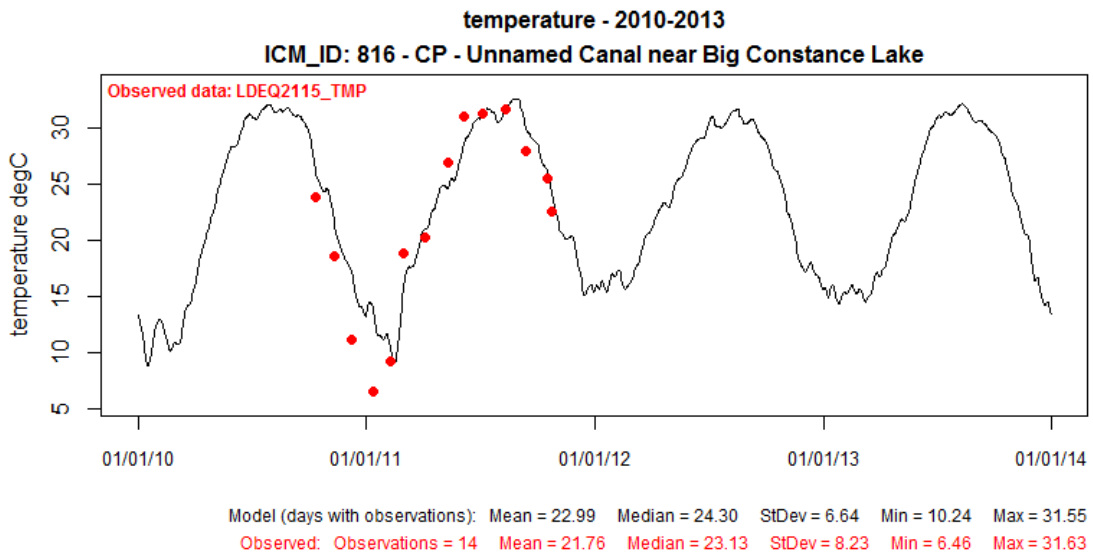

Figure 243: Modeled Temperature (degrees C) at ICM Compartment 816 (solid black line) Compared to Observed Data at LDEQ2115 for Calibration Period, 2010-2013.

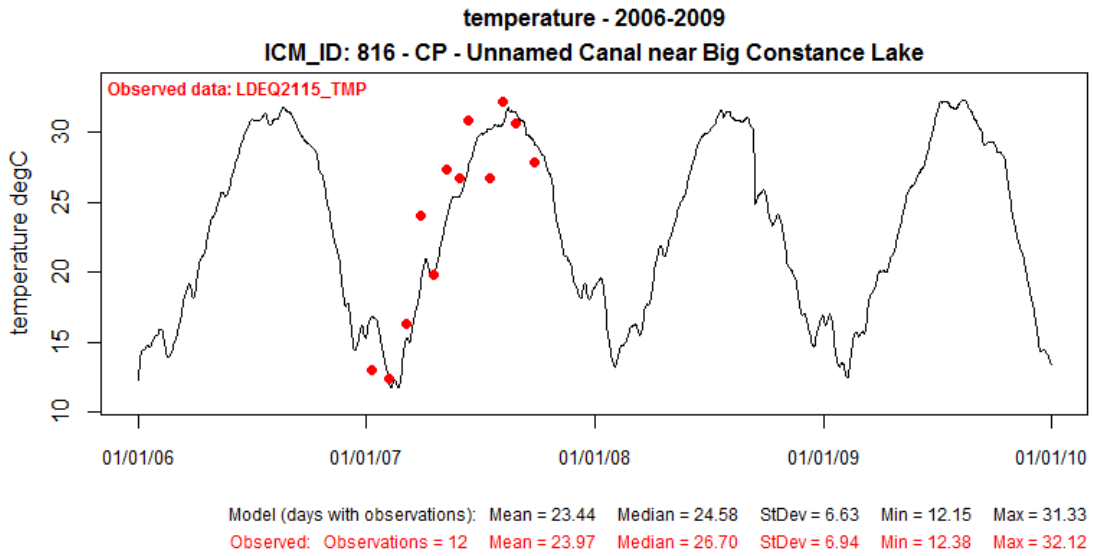

Figure 244: Modeled Temperature (degrees C) at ICM Compartment 816 (solid black line) Compared to Observed Data at LDEQ2115 for Validation Period, 2006-2009.

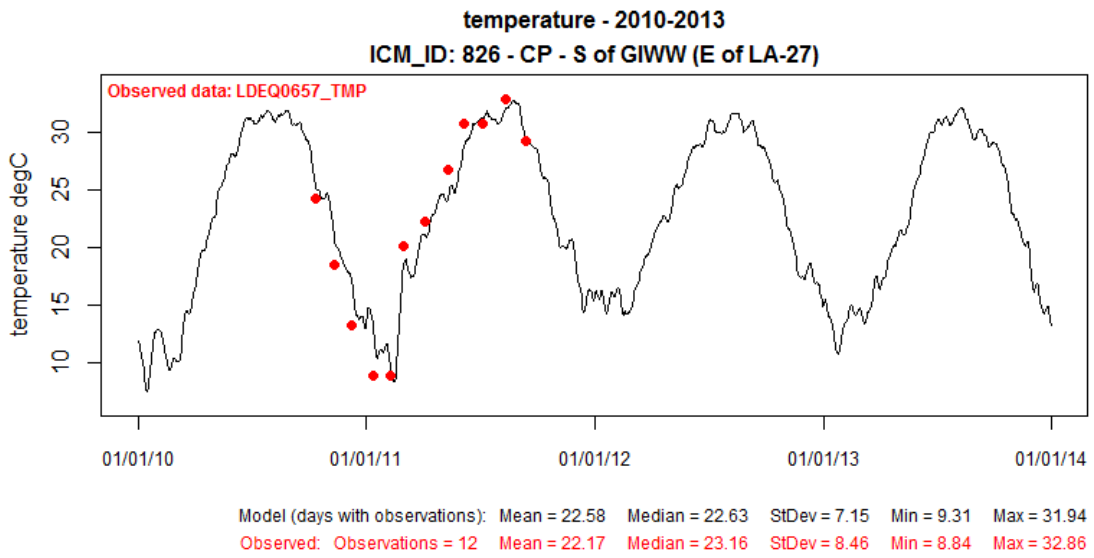

Figure 245: Modeled Temperature (degrees C) at ICM Compartment 826 (solid black line) Compared to Observed Data at LDEQ0657 for Calibration Period, 2010-2013.

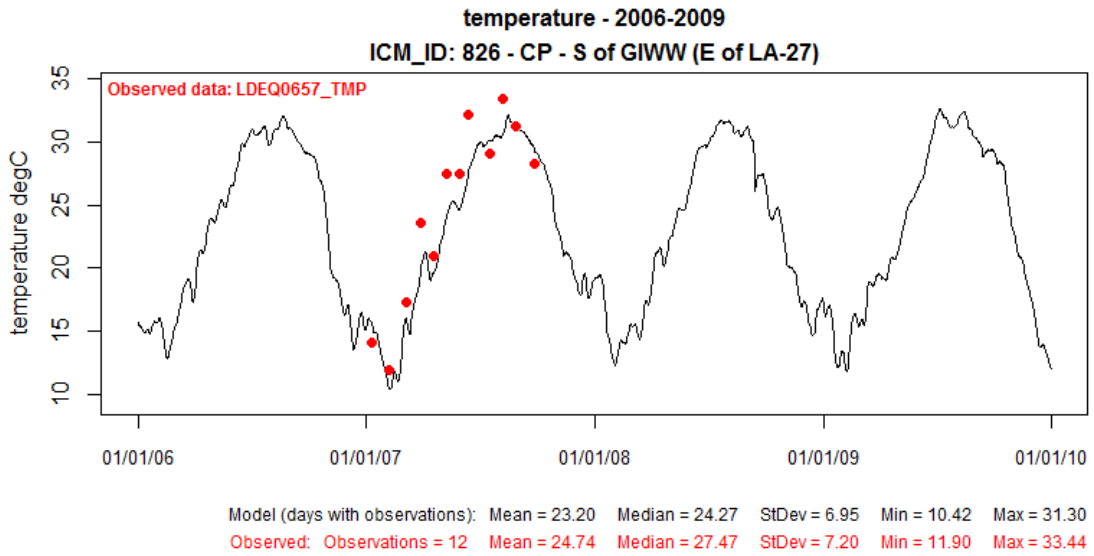

Figure 246: Modeled Temperature (degrees C) at ICM Compartment 826 (solid black line) Compared to Observed Data at LDEQ0657 for Validation Period, 2006-2009.

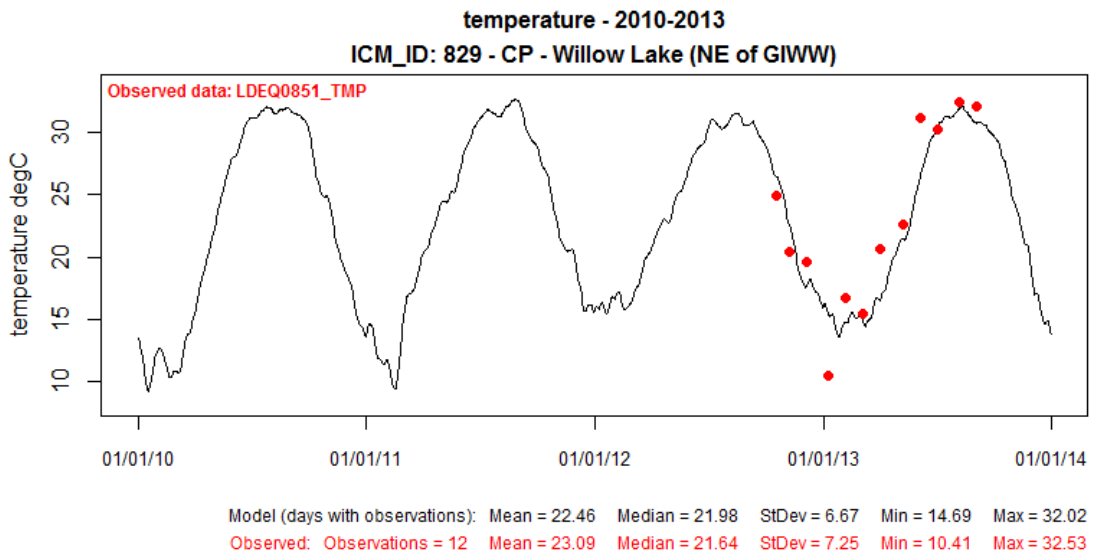

Figure 247: Modeled Temperature (degrees C) at ICM Compartment 829 (solid black line) Compared to Observed Data at LDEQ0851 for Calibration Period, 2010-2013.

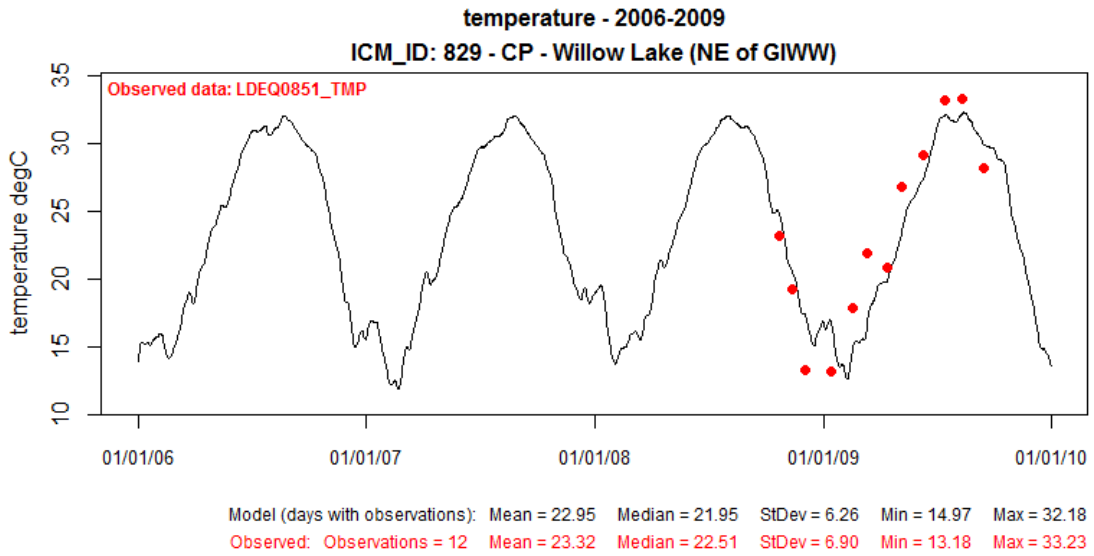

Figure 248: Modeled Temperature (degrees C) at ICM Compartment 829 (solid black line) Compared to Observed Data at LDEQ0851 for Validation Period, 2006-2009.

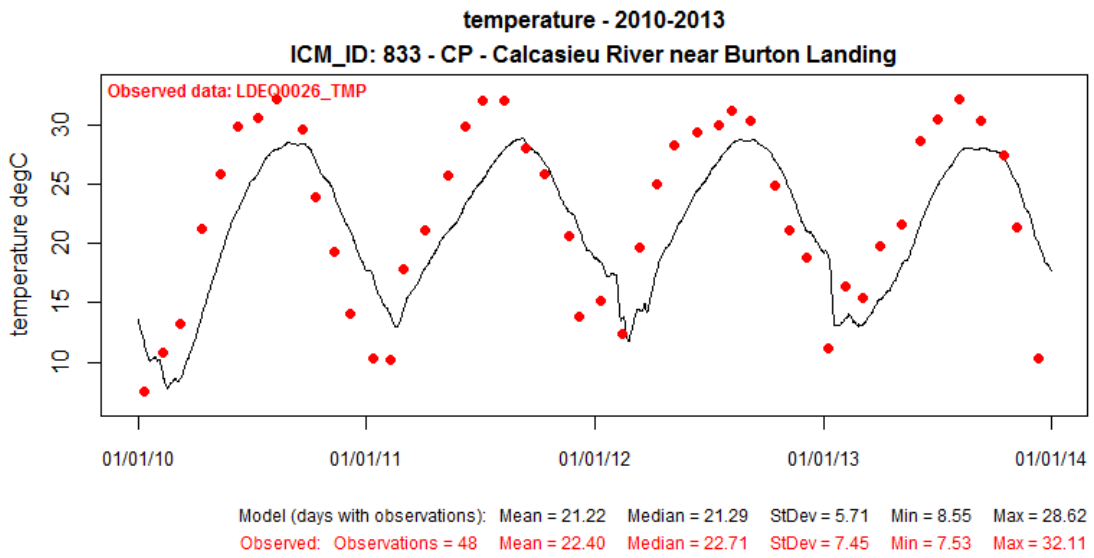

Figure 249: Modeled Temperature (degrees C) at ICM Compartment 833 (solid black line) Compared to Observed Data at LDEQ0026 for Calibration Period, 2010-2013.

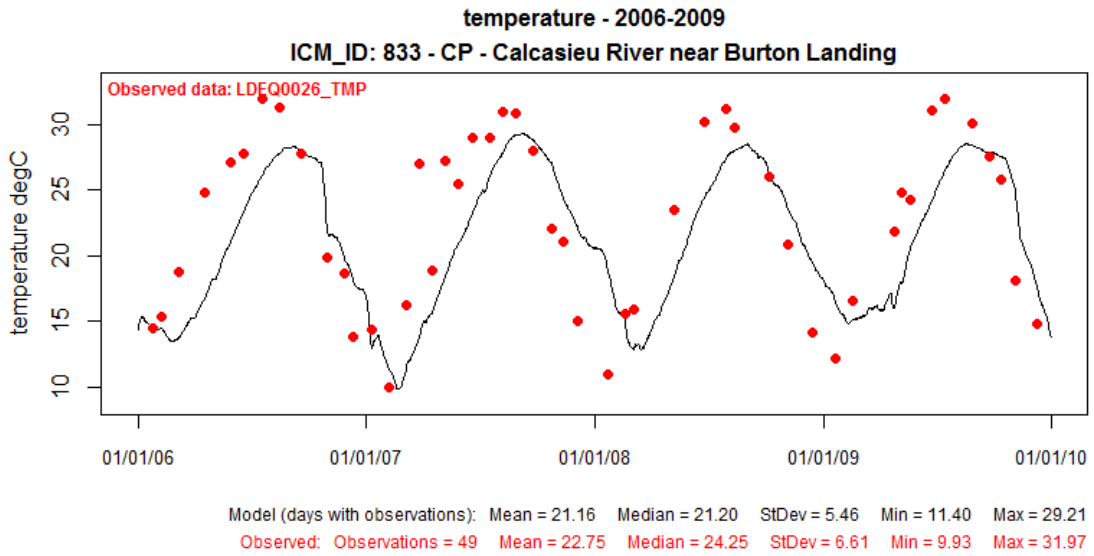

Figure 250: Modeled Temperature (degrees C) at ICM Compartment 833 (solid black line) Compared to Observed Data at LDEQ0026 for Validation Period, 2006-2009.

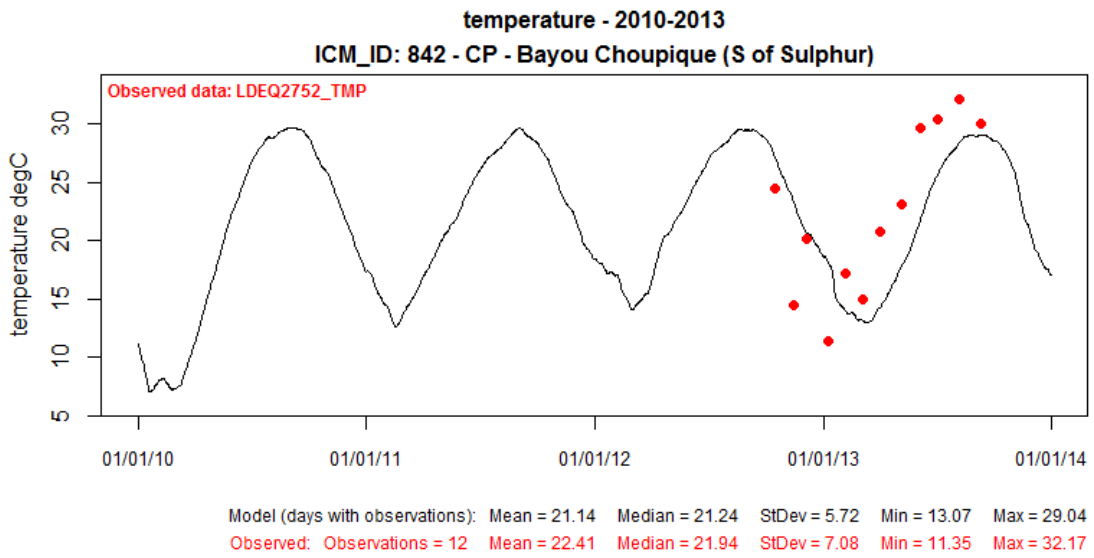

Figure 251: Modeled Temperature (degrees C) at ICM Compartment 842 (solid black line) Compared to Observed Data at LDEQ2752 for Calibration Period, 2010-2013.

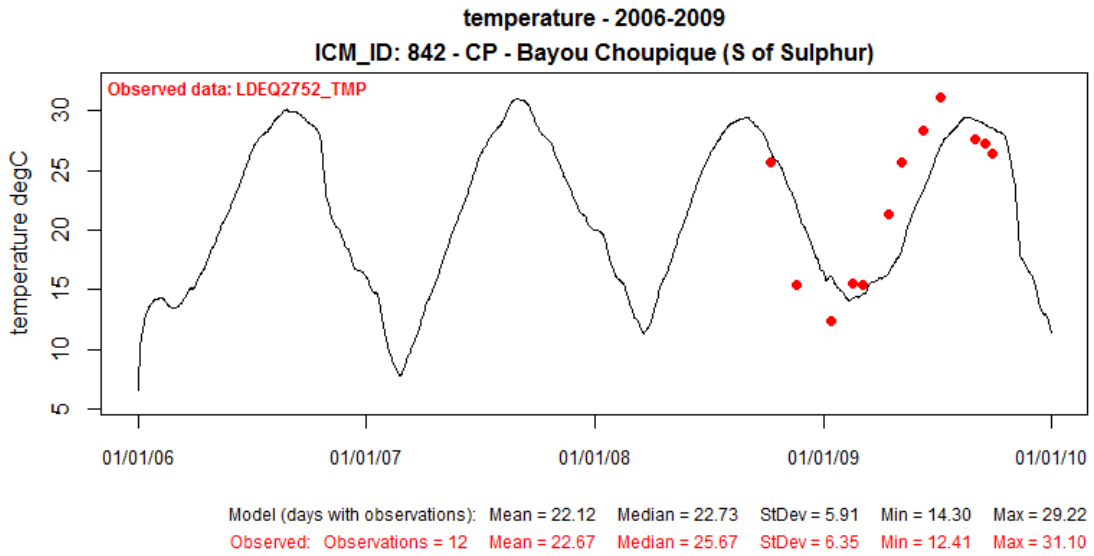

Figure 252: Modeled Temperature (degrees C) at ICM Compartment 842 (solid black line) Compared to Observed Data at LDEQ2752 for Validation Period, 2006-2009.

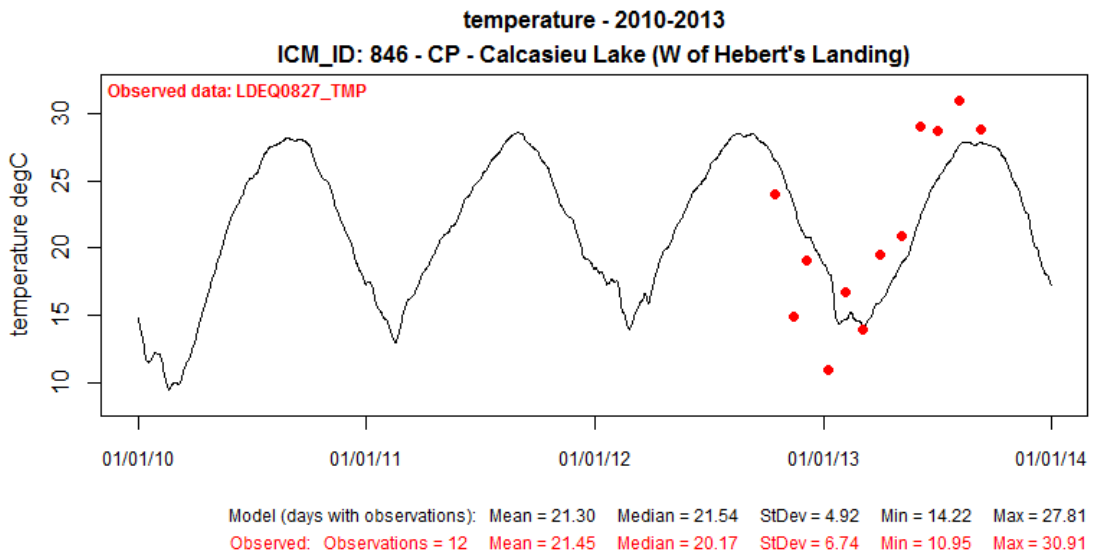

Figure 253: Modeled Temperature (degrees C) at ICM Compartment 846 (solid black line) Compared to Observed Data at LDEQ0827 for Calibration Period, 2010-2013.

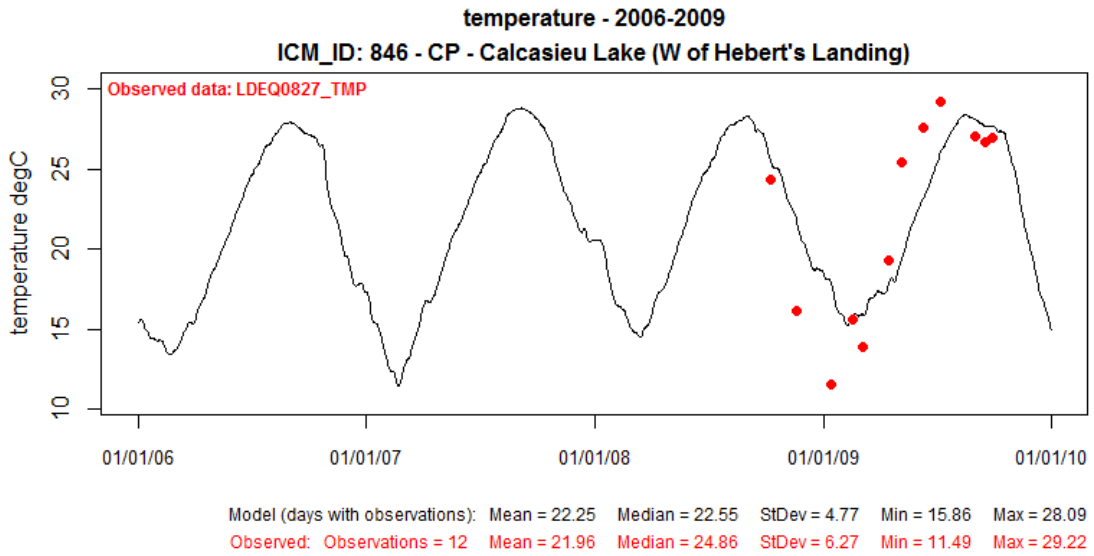

Figure 254: Modeled Temperature (degrees C) at ICM Compartment 846 (solid black line) Compared to Observed Data at LDEQ0827 for Validation Period, 2006-2009.

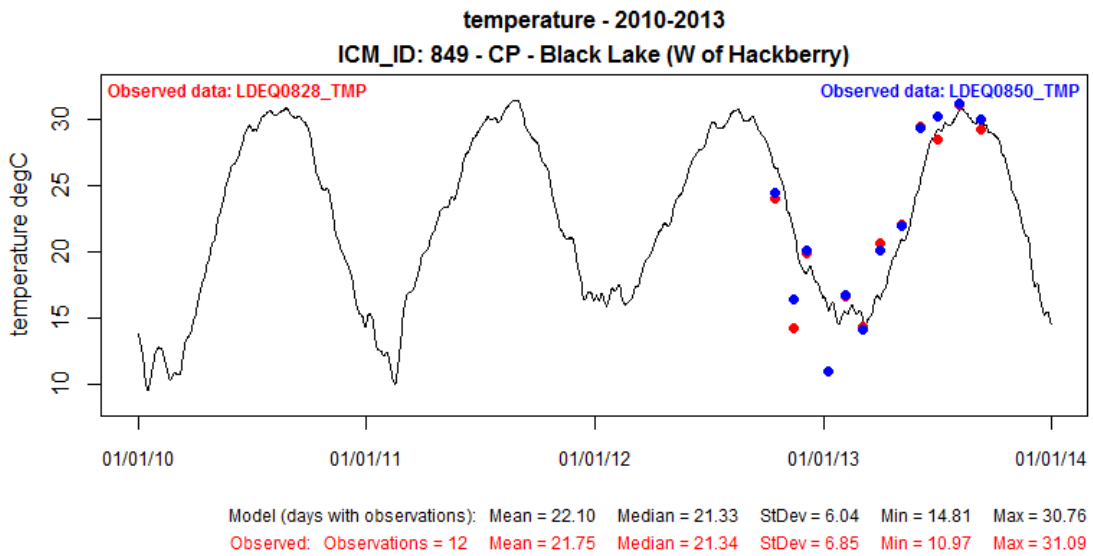

Figure 255: Modeled Temperature (degrees C) at ICM Compartment 849 (solid black line) Compared to Observed Data at LDEQ0828 for Calibration Period, 2010-2013.

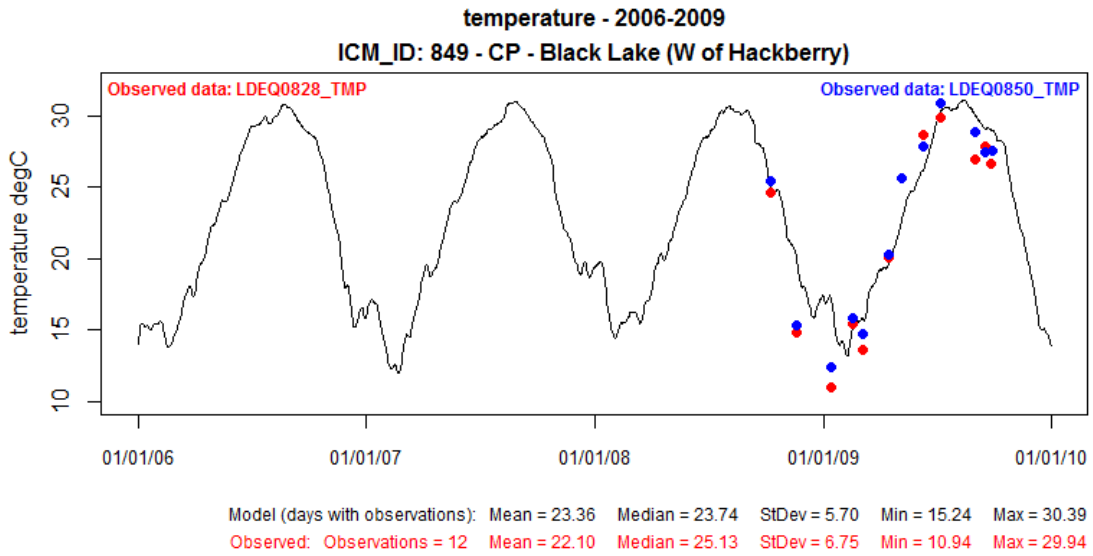

Figure 256: Modeled Temperature (degrees C) at ICM Compartment 849 (solid black line) Compared to Observed Data at LDEQ0828 for Validation Period, 2006-2009.

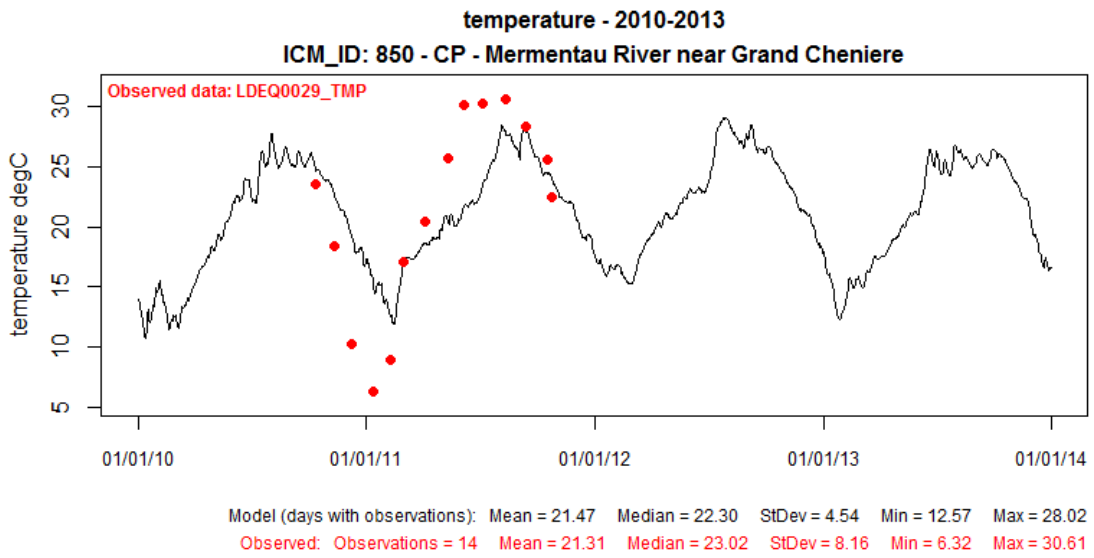

Figure 257: Modeled Temperature (degrees C) at ICM Compartment 850 (solid black line) Compared to Observed Data at LDEQ0029 for Calibration Period, 2010-2013.

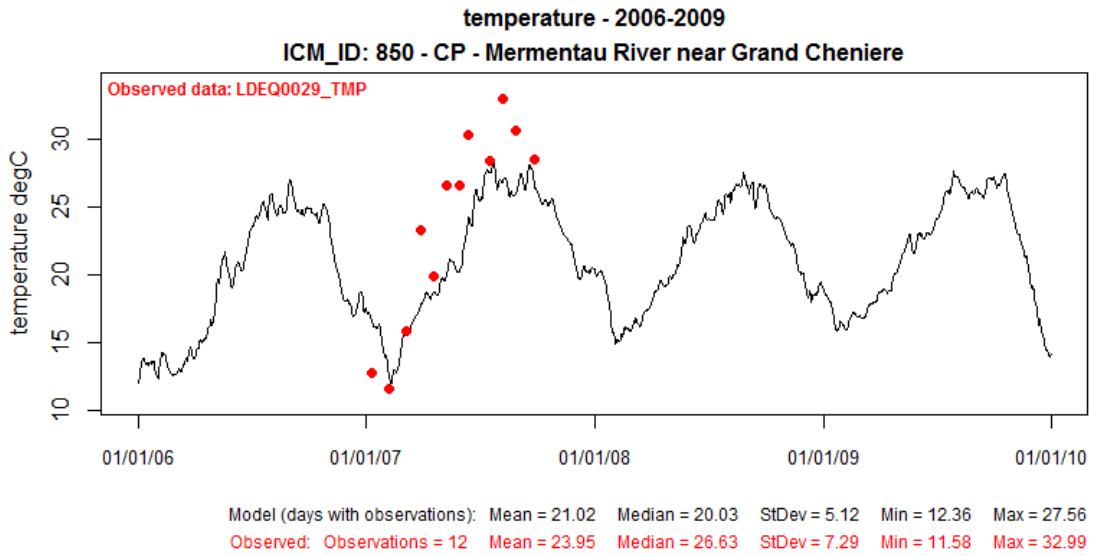

Figure 258: Modeled Temperature (degrees C) at ICM Compartment 850 (solid black line) Compared to Observed Data at LDEQ0029 for Validation Period, 2006-2009.

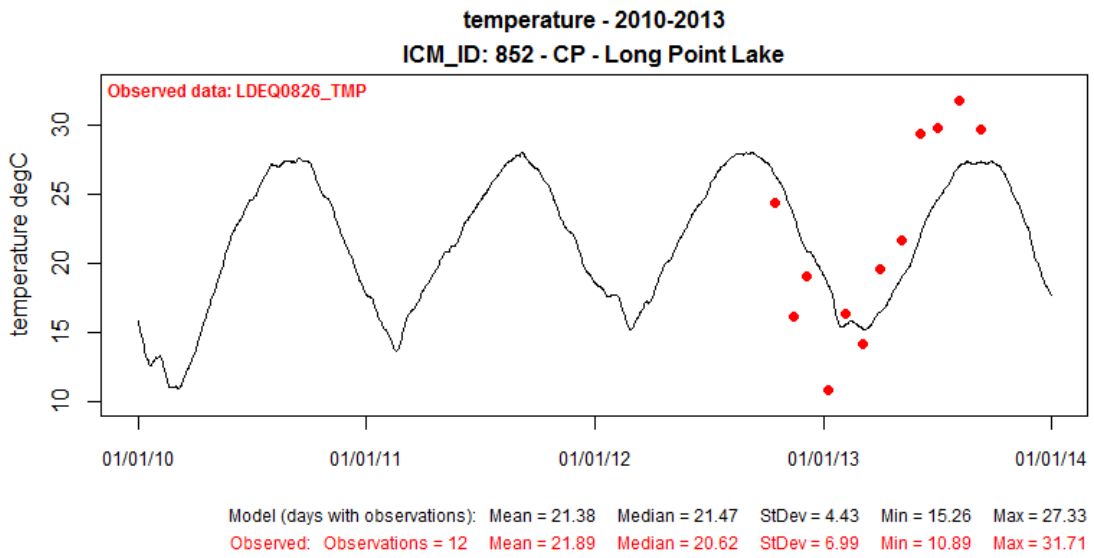

Figure 259: Modeled Temperature (degrees C) at ICM Compartment 852 (solid black line) Compared to Observed Data at LDEQ0826 for Calibration Period, 2010-2013.

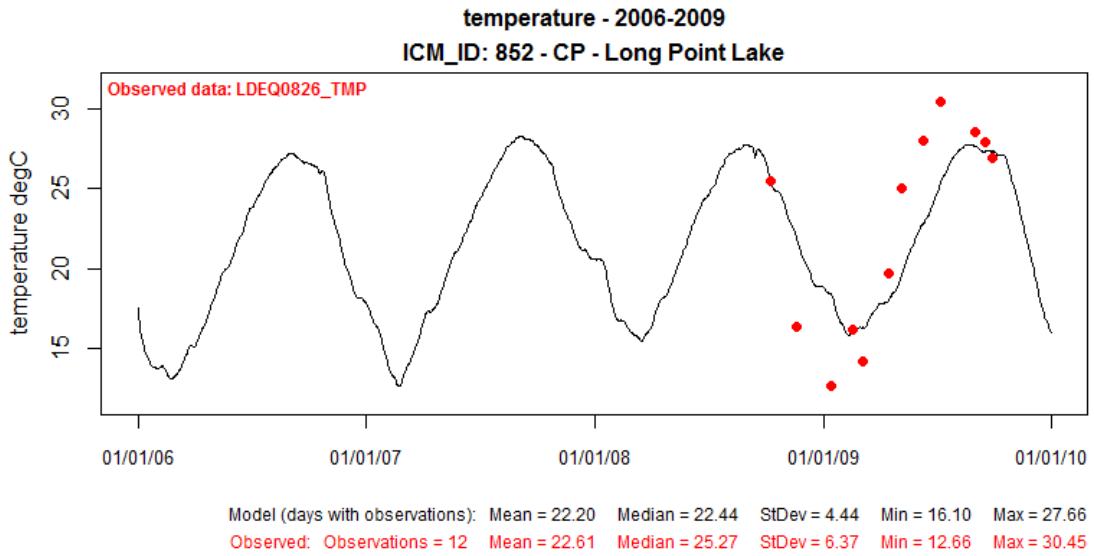

Figure 260: Modeled Temperature (degrees C) at ICM Compartment 852 (solid black line) Compared to Observed Data at LDEQ0826 for Validation Period, 2006-2009.

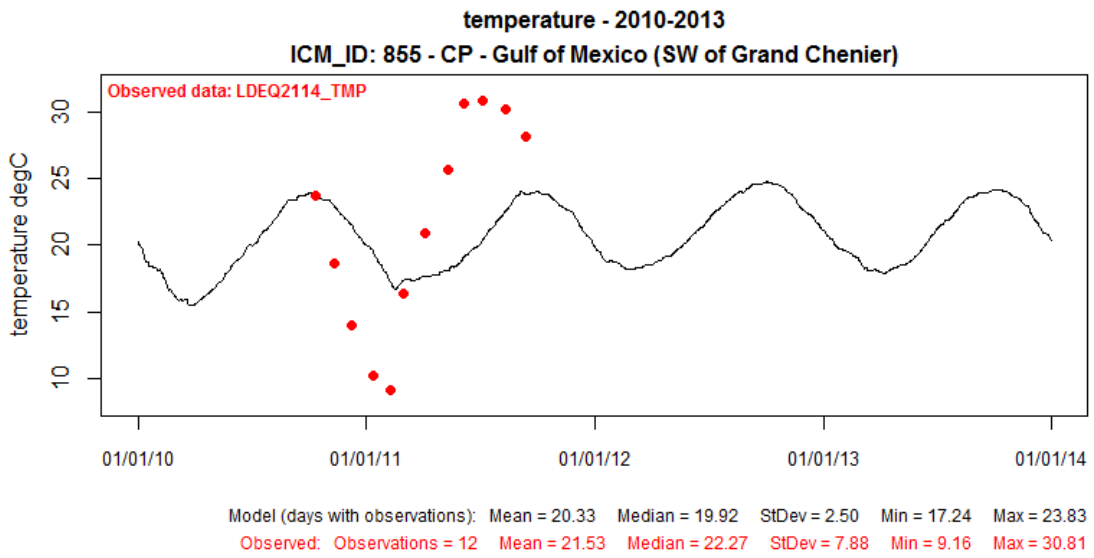

Figure 261: Modeled Temperature (degrees C) at ICM Compartment 855 (solid black line) Compared to Observed Data at LDEQ2114 for Calibration Period, 2010-2013.

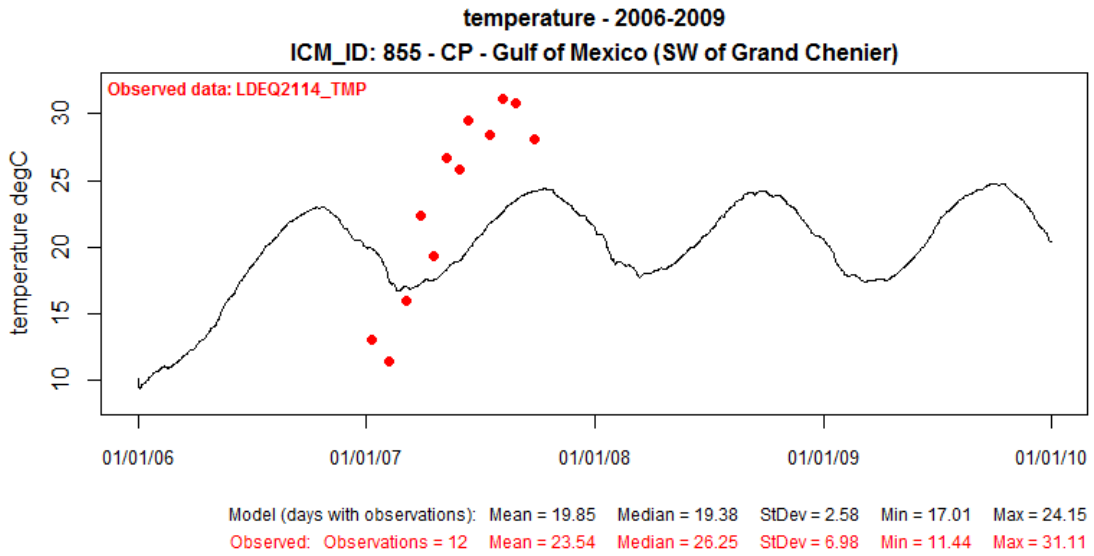

Figure 262: Modeled Temperature (degrees C) at ICM Compartment 855 (solid black line) Compared to Observed Data at LDEQ2114 for Validation Period, 2006-2009.

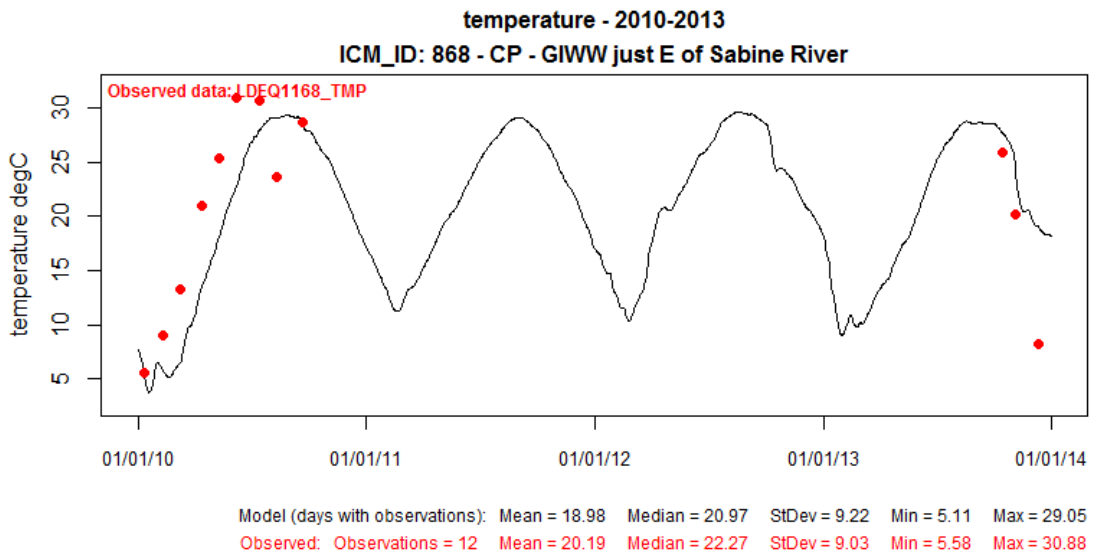

Figure 263: Modeled Temperature (degrees C) at ICM Compartment 868 (solid black line) Compared to Observed Data at LDEQ1168 for Calibration Period, 2010-2013.

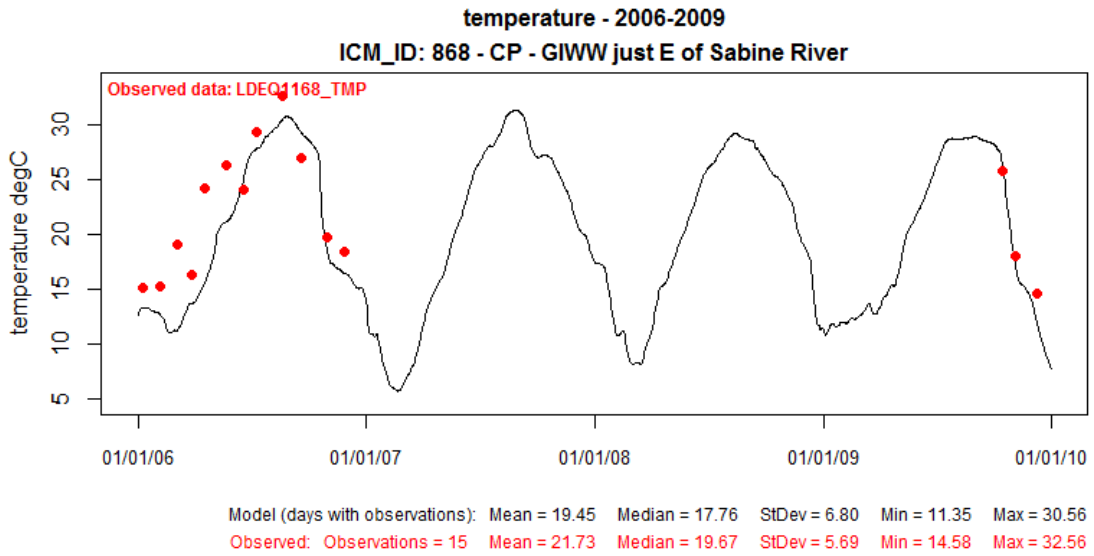

Figure 264: Modeled Temperature (degrees C) at ICM Compartment 868 (solid black line) Compared to Observed Data at LDEQ1168 for Validation Period, 2006-2009.

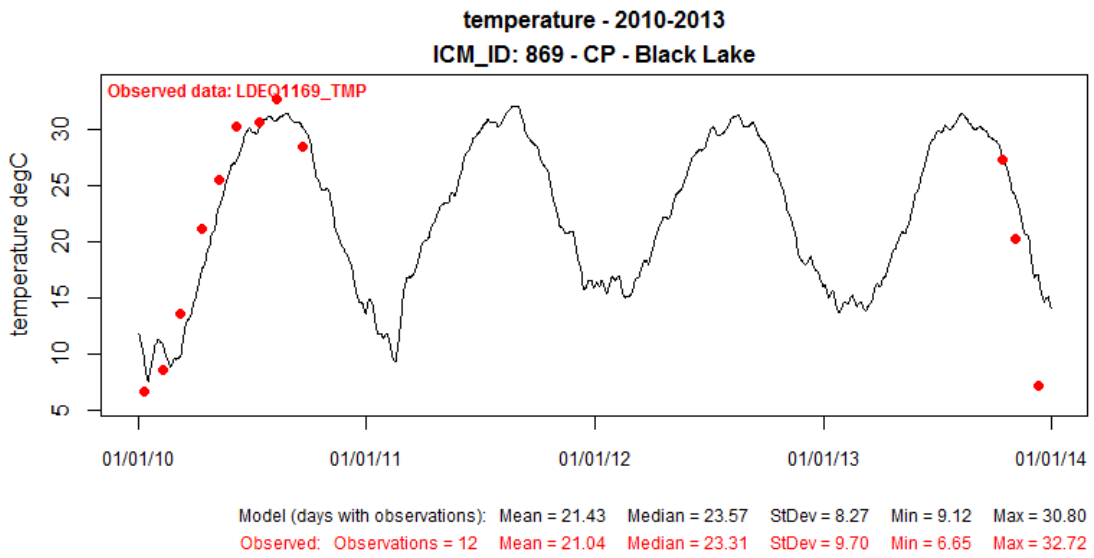

Figure 265: Modeled Temperature (degrees C) at ICM Compartment 869 (solid black line) Compared to Observed Data at LDEQ1169 for Calibration Period, 2010-2013.

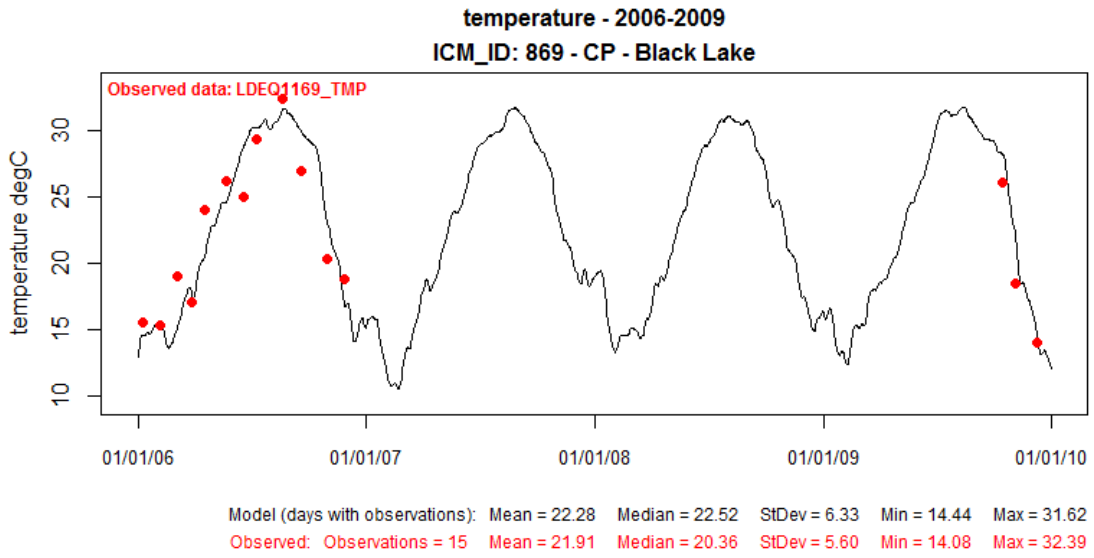

Figure 266: Modeled Temperature (degrees C) at ICM Compartment 869 (solid black line) Compared to Observed Data at LDEQ1169 for Validation Period, 2006-2009.

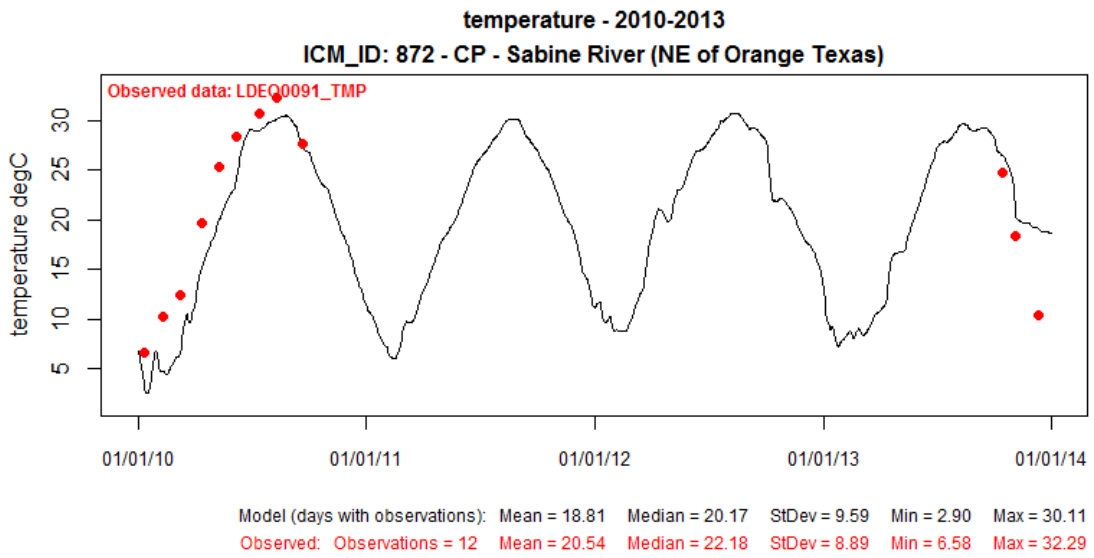

Figure 267: Modeled Temperature (degrees C) at ICM Compartment 872 (solid black line) Compared to Observed Data at LDEQ0091 for Calibration Period, 2010-2013.

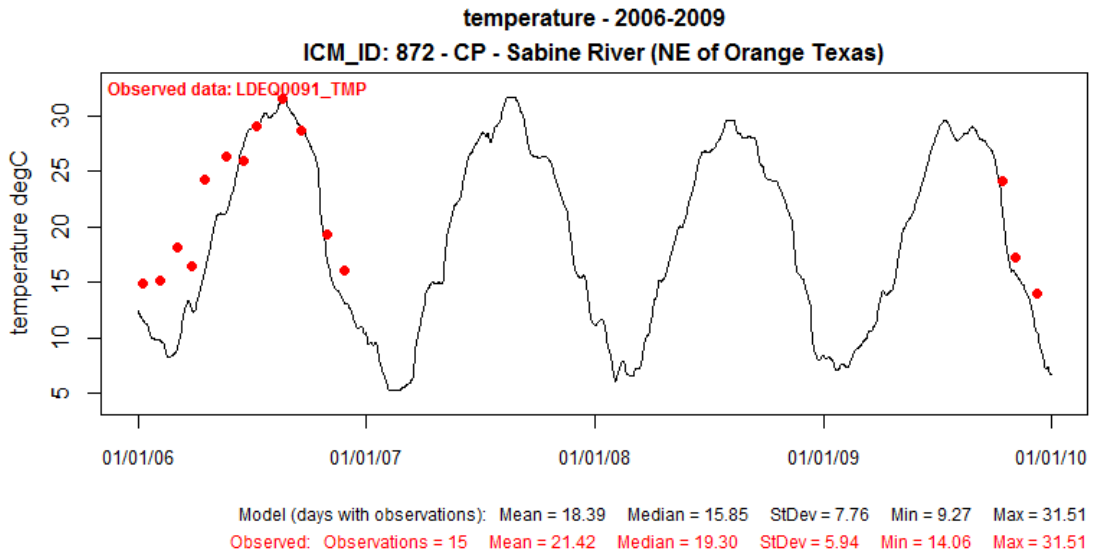

Figure 268: Modeled Temperature (degrees C) at ICM Compartment 872 (solid black line) Compared to Observed Data at LDEQ0091 for Validation Period, 2006-2009.

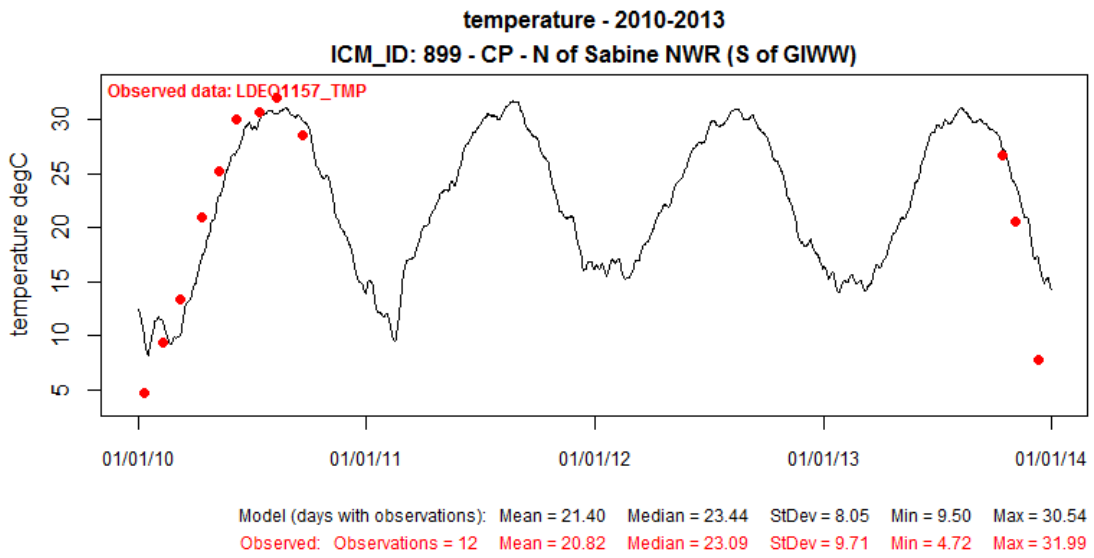

Figure 269: Modeled Temperature (degrees C) at ICM Compartment 899 (solid black line) Compared to Observed Data at LDEQ1157 for Calibration Period, 2010-2013.

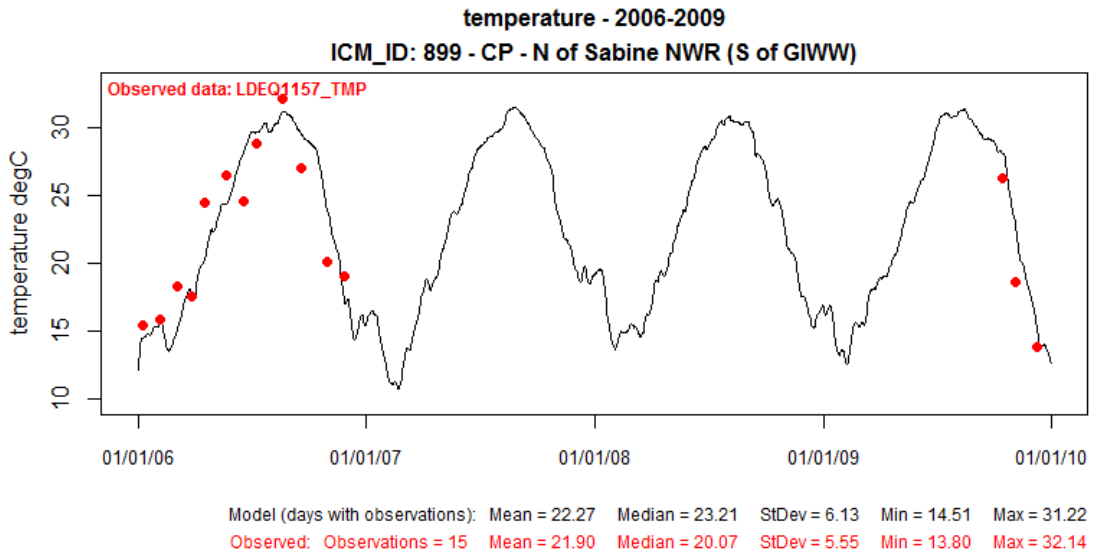

Figure 270: Modeled Temperature (degrees C) at ICM Compartment 899 (solid black line) Compared to Observed Data at LDEQ1157 for Validation Period, 2006-2009.

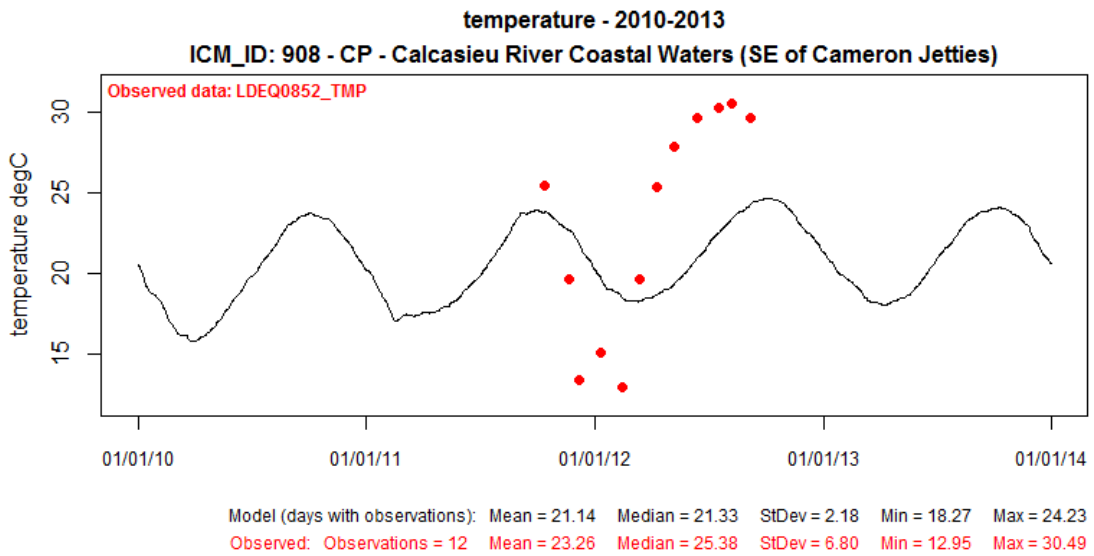

Figure 271: Modeled Temperature (degrees C) at ICM Compartment 908 (solid black line) Compared to Observed Data at LDEQ0852 for Calibration Period, 2010-2013.

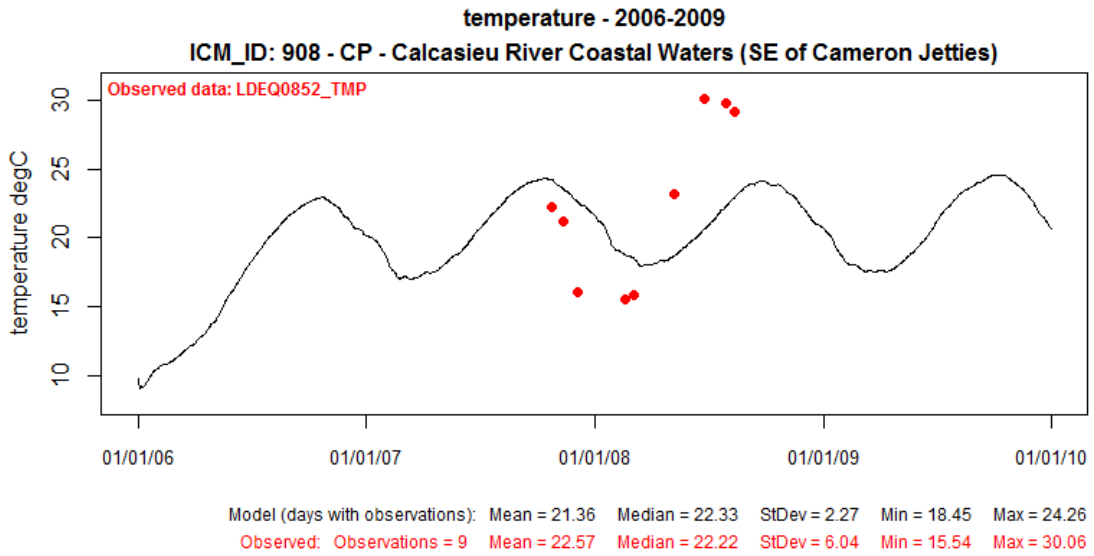

Figure 272: Modeled Temperature (degrees C) at ICM Compartment 908 (solid black line) Compared to Observed Data at LDEQ0852 for Validation Period, 2006-2009.

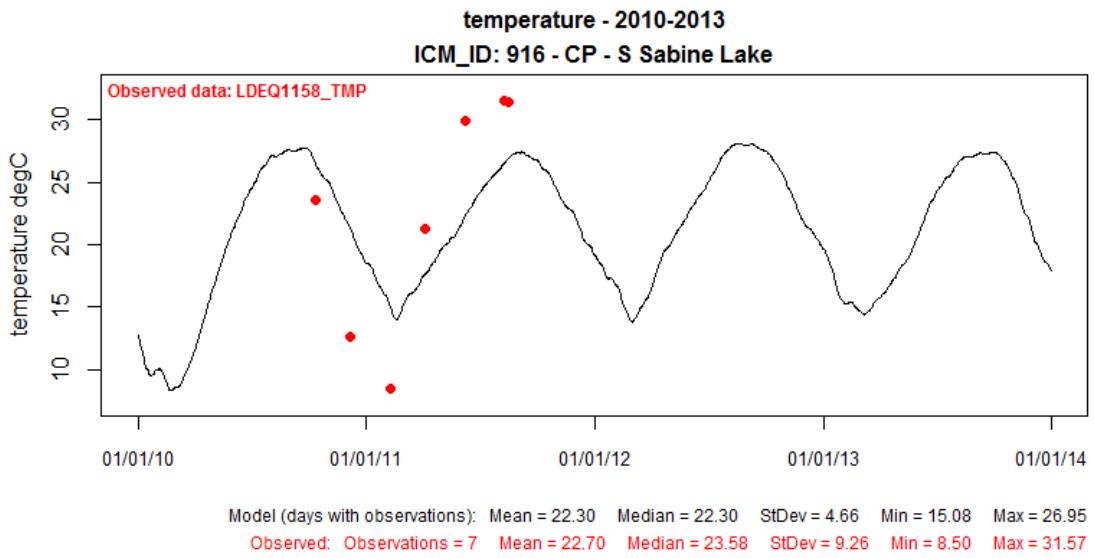

Figure 273: Modeled Temperature (degrees C) at ICM Compartment 916 (solid black line) Compared to Observed Data at LDEQ1158 for Calibration Period, 2010-2013.

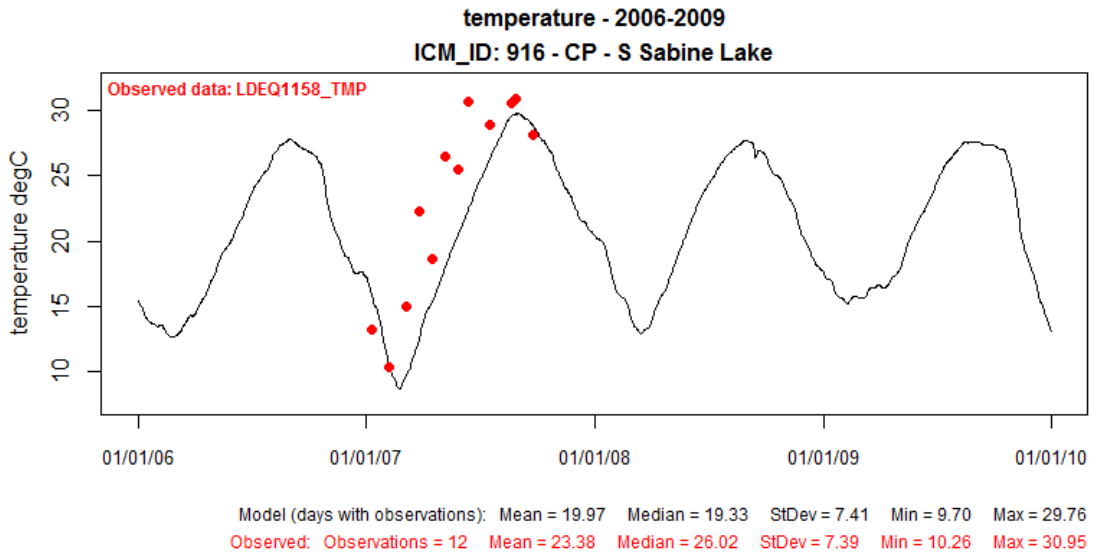

Figure 274: Modeled Temperature (degrees C) at ICM Compartment 916 (solid black line) Compared to Observed Data at LDEQ1158 for Validation Period, 2006-2009.

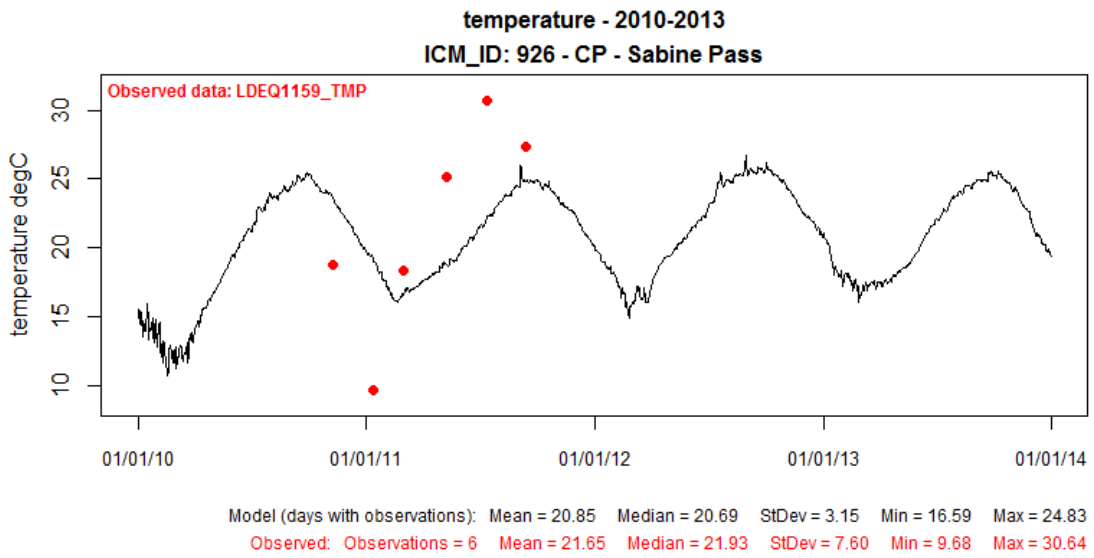

Figure 275: Modeled Temperature (degrees C) at ICM Compartment 926 (solid black line) Compared to Observed Data at LDEQ1159 for Calibration Period, 2010-2013.

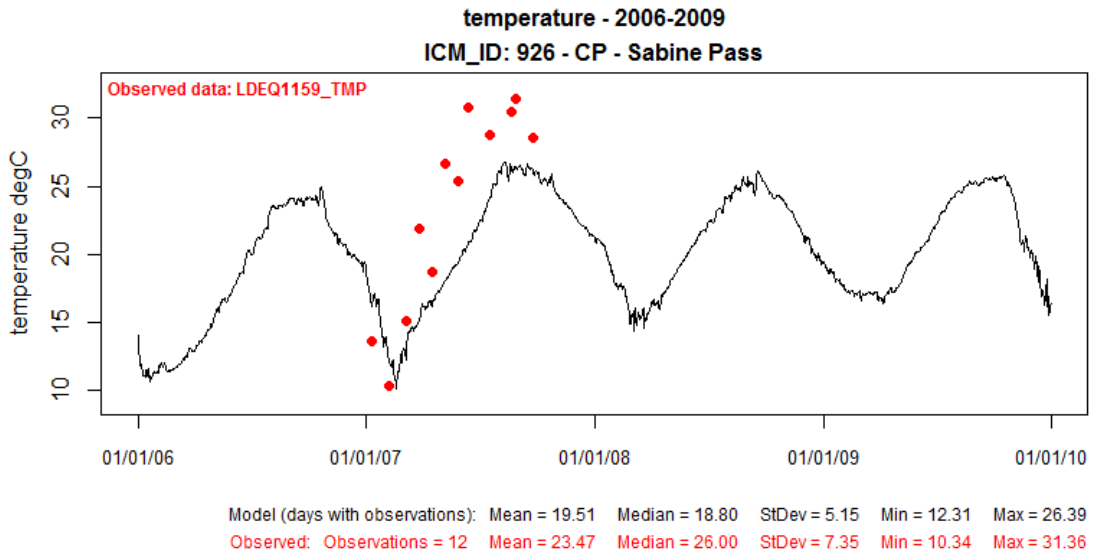

Figure 276: Modeled Temperature (degrees C) at ICM Compartment 926 (solid black line) Compared to Observed Data at LDEQ1159 for Validation Period, 2006-2009.

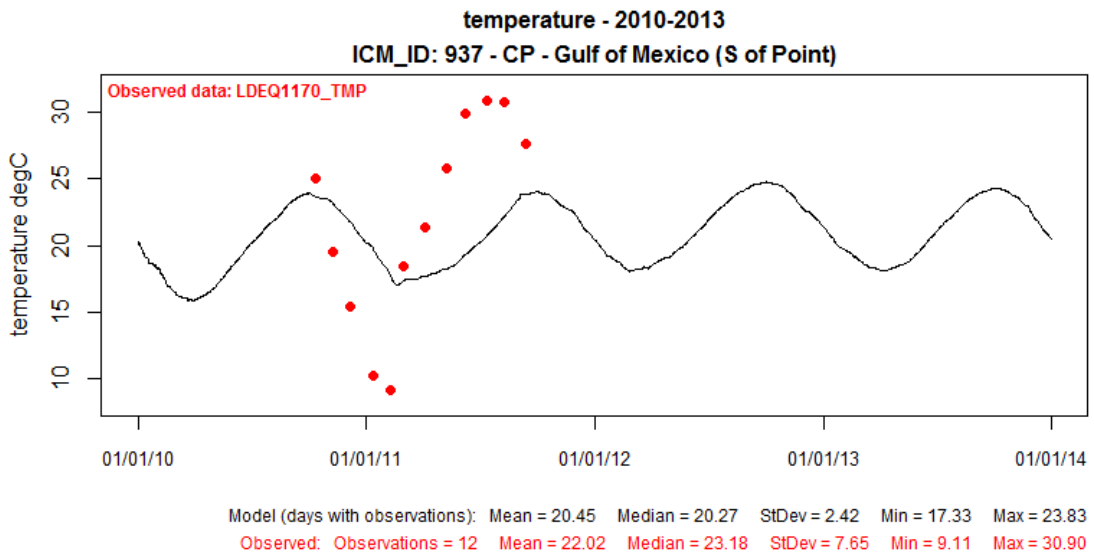

Figure 277: Modeled Temperature (degrees C) at ICM Compartment 937 (solid black line) Compared to Observed Data at LDEQ1170 for Calibration Period, 2010-2013.

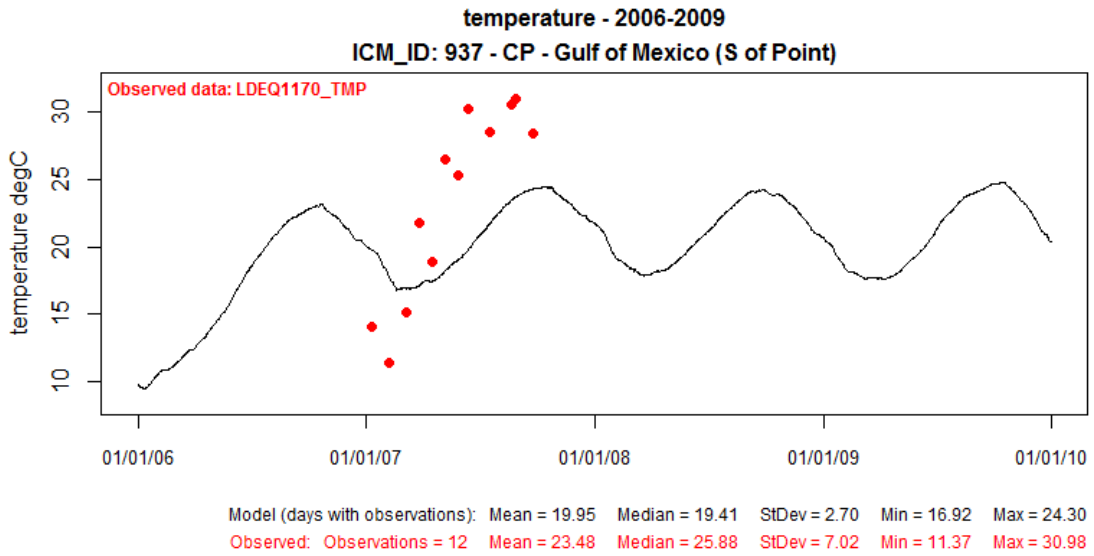

Figure 278: Modeled Temperature (degrees C) at ICM Compartment 937 (solid black line) Compared to Observed Data at LDEQ1170 for Validation Period, 2006-2009.