

(4) 水質（出水時調査）

1) 観測目的

ダム撤去により環境が変化すると予測される荒瀬ダム上・下流において、出水時の水の濁り等の発生状況を把握することを目的とする。

2) 観測項目

次の4つの項目について採水後に室内分析する。①濁度、②SS、③D0、④粒度組成

3) 観測時期・頻度

平成27年4月～平成28年3月の期間において、出水時に2回実施する。
第1回は平成27年6月3日16時～6月4日9時に実施した。

4) 観測方法

各観測項目の観測方式及び測定範囲を下表に示す。

調査区分	調査項目	測定・分析方法
室内分析	濁度	JIS K 0101 9.4
	SS	S46 環境庁告示第59号付表9
	D0	JIS K 0102 32.1
	粒度組成	レーザ回折・散乱光式 ・測定範囲：0.1～2,000 μ m ・使用溶剤：水（分散剤は使用なし） ・超音波分散：1分

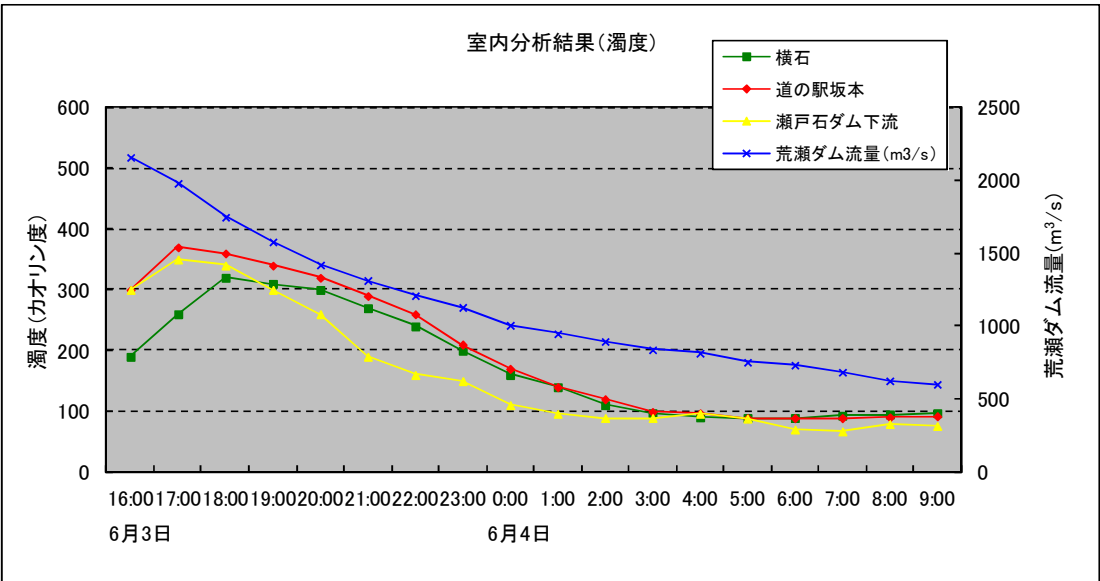
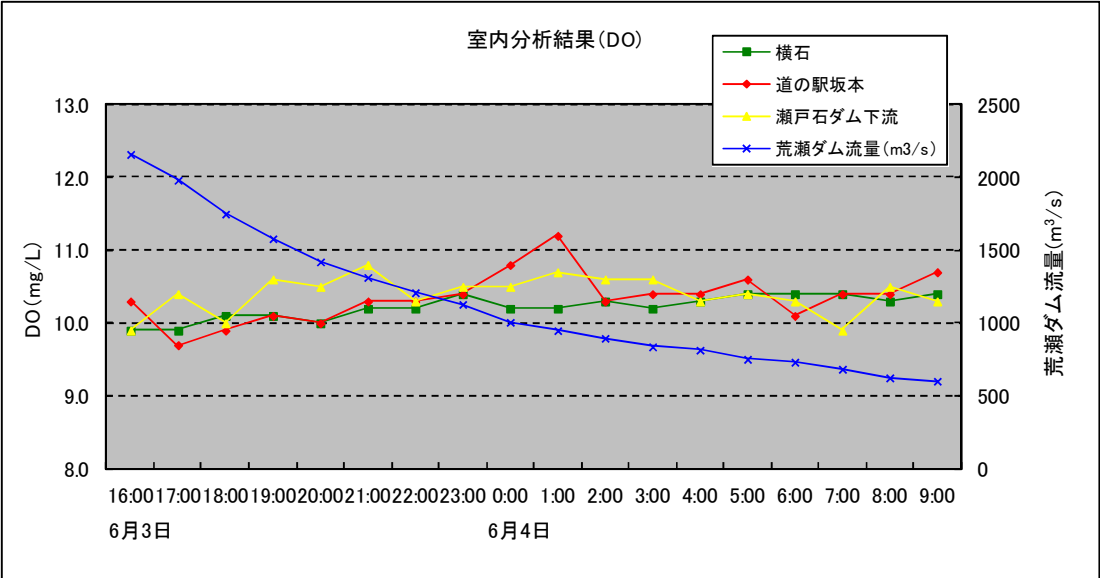
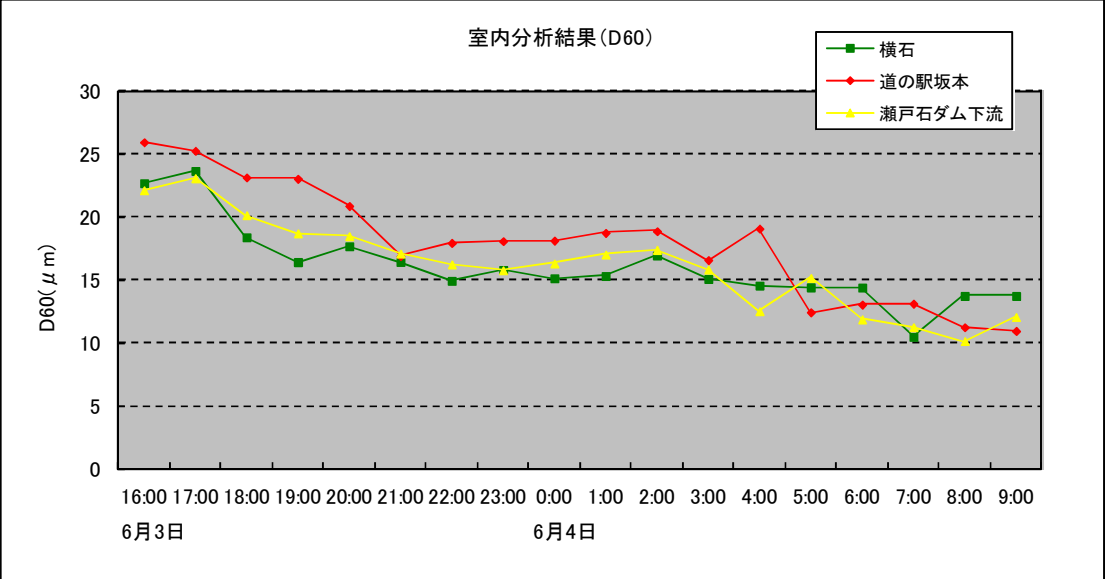
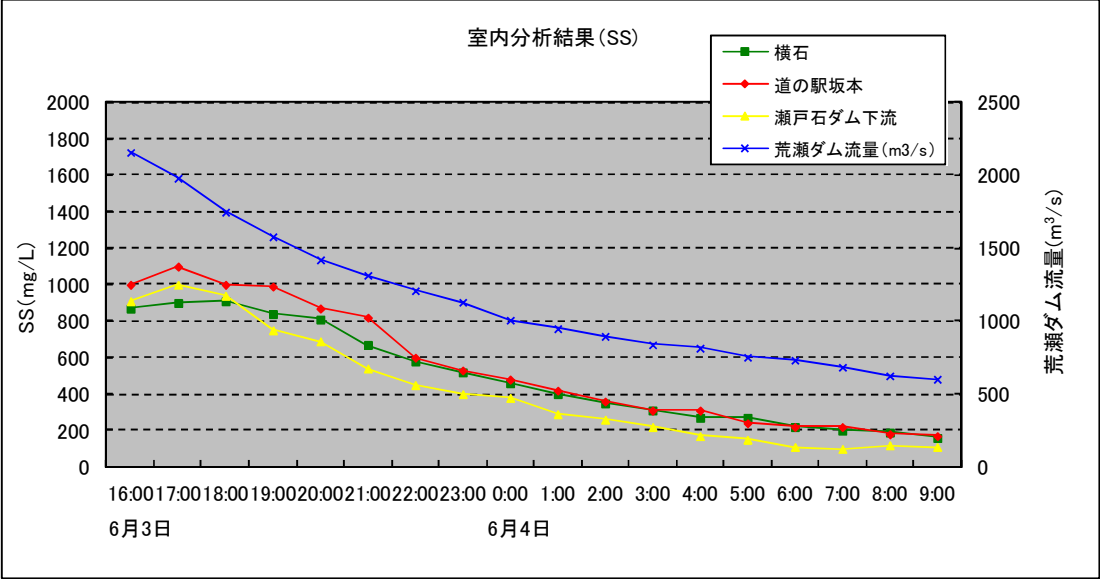
5) 観測地点

次の3地点で観測した。①瀬戸石ダム下流、②道の駅坂本、③横石

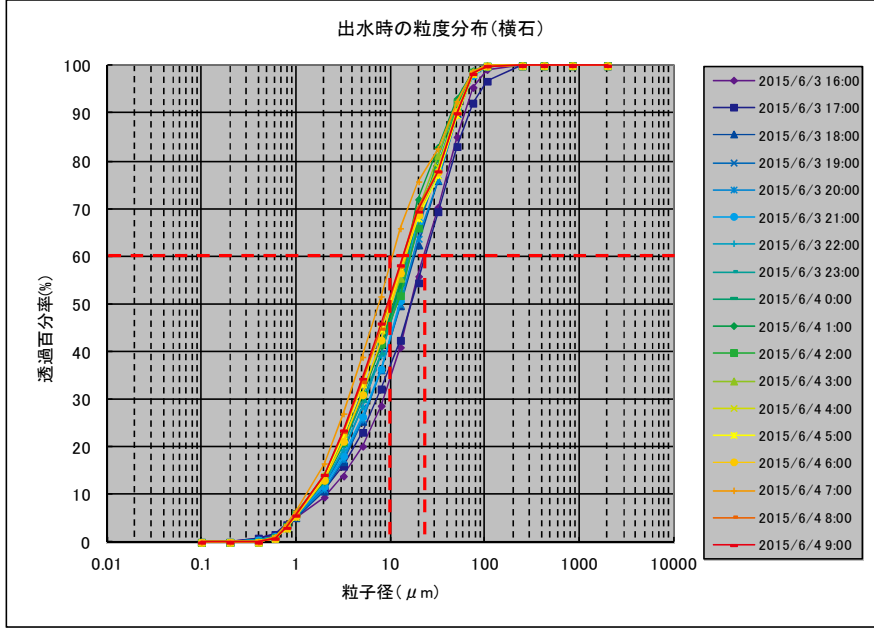
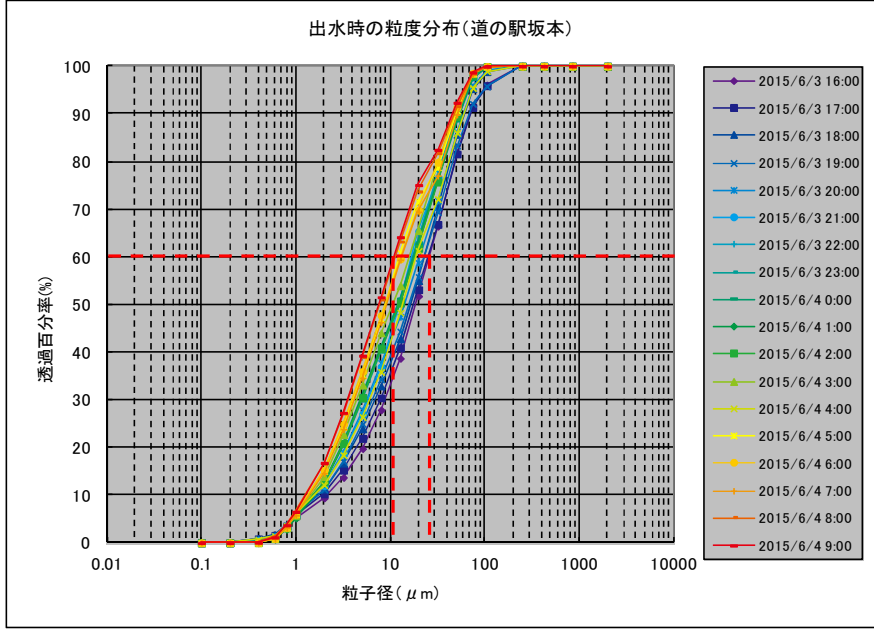
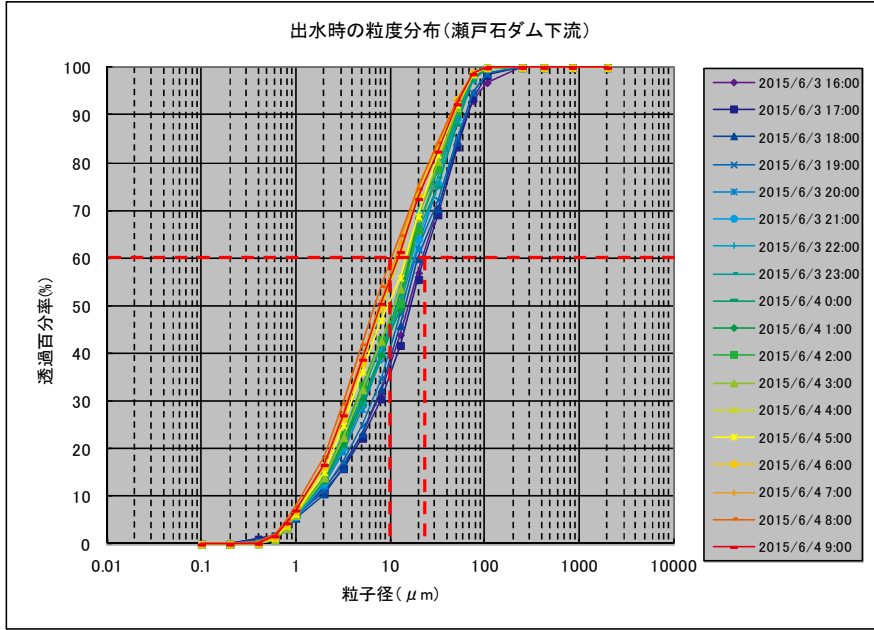


※この地図は、国土地理院発行の2万5千分の1地形図(坂本、中津道)を背景図として使用したものである。

6) 観測結果



No.	採水時刻	瀬戸石ダム下流			道の駅坂本			横石		
		SS(mg/L)	DO(mg/L)	濁度(カオリン度)	SS(mg/L)	DO(mg/L)	濁度(カオリン度)	SS(mg/L)	DO(mg/L)	濁度(カオリン度)
1	2015/6/3 16:00	910	9.9	300	1000	10.3	300	870	9.9	190
2	2015/6/3 17:00	1000	10.4	350	1100	9.7	370	900	9.9	260
3	2015/6/3 18:00	940	10.0	340	1000	9.9	360	910	10.1	320
4	2015/6/3 19:00	750	10.6	300	990	10.1	340	840	10.1	310
5	2015/6/3 20:00	690	10.5	260	870	10.0	320	810	10.0	300
6	2015/6/3 21:00	540	10.8	190	820	10.3	290	670	10.2	270
7	2015/6/3 22:00	450	10.3	160	600	10.3	260	580	10.2	240
8	2015/6/3 23:00	400	10.5	150	530	10.4	210	520	10.4	200
9	2015/6/4 0:00	380	10.5	110	480	10.8	170	460	10.2	160
10	2015/6/4 1:00	290	10.7	96	420	11.2	140	400	10.2	140
11	2015/6/4 2:00	260	10.6	89	360	10.3	120	350	10.3	110
12	2015/6/4 3:00	220	10.6	89	310	10.4	99	310	10.2	97
13	2015/6/4 4:00	170	10.3	96	310	10.4	97	270	10.3	90
14	2015/6/4 5:00	150	10.4	88	240	10.6	89	270	10.4	89
15	2015/6/4 6:00	110	10.3	70	220	10.1	89	220	10.4	89
16	2015/6/4 7:00	100	9.9	67	220	10.4	89	200	10.4	93
17	2015/6/4 8:00	120	10.5	79	180	10.4	90	190	10.3	95
18	2015/6/4 9:00	110	10.3	76	170	10.7	92	160	10.4	97



調査地点	採水時刻	通過百分率																			
		0.100	0.200	0.400	0.600	0.800	1.000	2.000	3.200	5.100	8.000	12.800	20.000	32.000	51.000	75.000	106.000	250.000	425.000	850.000	2000.000
瀬戸石ダム 下流	2015/6/3 16:00	0.000	0.000	1.129	1.862	3.962	6.521	11.869	16.615	23.109	31.957	43.904	56.943	70.541	84.128	92.994	96.854	99.993	100.000	100.000	100.000
	2015/6/3 17:00	0.000	0.000	1.059	1.762	3.749	6.142	11.156	15.826	22.213	30.491	41.680	55.547	69.095	83.304	93.499	98.308	100.000	100.000	100.000	100.000
	2015/6/3 18:00	0.000	0.000	0.678	1.339	3.223	5.458	10.561	15.963	23.219	32.582	45.855	59.916	70.392	84.427	94.726	98.776	100.000	100.000	100.000	100.000
	2015/6/3 19:00	0.000	0.000	0.655	1.376	3.402	5.774	11.355	17.246	24.970	34.794	48.433	61.810	72.238	85.261	94.708	98.667	100.000	100.000	100.000	100.000
	2015/6/3 20:00	0.000	0.000	0.343	1.141	3.334	5.807	12.243	19.346	28.319	39.022	50.849	62.107	75.149	88.743	97.373	99.768	100.000	100.000	100.000	100.000
	2015/6/3 21:00	0.000	0.000	0.294	1.068	3.228	5.727	12.788	20.349	29.648	40.443	52.678	63.971	75.665	89.244	97.793	99.850	100.000	100.000	100.000	100.000
	2015/6/3 22:00	0.000	0.000	0.362	1.196	3.621	6.457	13.270	20.504	29.236	38.696	51.082	69.991	78.174	90.884	98.599	99.952	100.000	100.000	100.000	100.000
	2015/6/3 23:00	0.000	0.000	0.262	1.101	3.418	6.083	13.681	21.677	31.260	41.859	54.122	66.598	77.094	89.870	98.026	99.874	100.000	100.000	100.000	100.000
	2015/6/4 0:00	0.000	0.000	0.359	1.186	3.476	6.089	13.066	20.448	29.310	39.479	52.632	65.647	75.080	88.024	97.357	99.792	100.000	100.000	100.000	100.000
	2015/6/4 1:00	0.000	0.000	0.040	0.990	3.660	6.692	13.571	21.216	30.418	39.716	49.282	68.470	79.746	91.970	98.755	99.958	100.000	100.000	100.000	100.000
	2015/6/4 2:00	0.000	0.000	0.021	0.897	3.382	6.250	14.228	23.025	33.345	42.969	50.440	65.891	78.700	90.938	98.472	99.943	100.000	100.000	100.000	100.000
	2015/6/4 3:00	0.000	0.000	0.023	0.894	3.287	6.018	13.896	22.381	32.388	42.584	53.536	68.462	80.327	91.599	98.496	99.937	100.000	100.000	100.000	100.000
	2015/6/4 4:00	0.000	0.000	0.050	1.132	3.696	6.515	16.230	26.454	37.912	49.115	60.561	72.897	83.332	93.182	98.866	99.959	100.000	100.000	100.000	100.000
	2015/6/4 5:00	0.000	0.000	0.109	1.392	3.857	6.313	15.054	24.896	36.177	46.968	55.900	68.773	81.705	92.154	98.615	99.947	100.000	100.000	100.000	100.000
	2015/6/4 6:00	0.000	0.000	0.081	1.354	4.049	6.843	16.335	26.590	38.094	49.912	61.825	73.040	83.593	93.307	98.858	99.957	100.000	100.000	100.000	100.000
	2015/6/4 7:00	0.000	0.000	0.146	1.657	4.457	7.235	17.003	27.586	39.423	51.348	63.210	74.817	84.085	93.238	98.851	99.957	100.000	100.000	100.000	100.000
2015/6/4 8:00	0.000	0.000	0.343	2.259	5.197	7.996	18.423	29.572	41.998	54.203	64.847	74.645	84.410	93.265	98.790	99.952	100.000	100.000	100.000	100.000	
2015/6/4 9:00	0.000	0.000	0.155	1.658	4.396	7.103	16.666	27.084	38.759	50.453	61.316	72.430	82.370	92.322	98.669	99.950	100.000	100.000	100.000	100.000	
道の駅 坂本	2015/6/3 16:00	0.000	0.000	0.846	1.478	3.211	5.212	9.381	13.713	19.741	27.876	38.693	51.758	66.451	81.891	91.745	96.045	99.991	100.000	100.000	100.000
	2015/6/3 17:00	0.000	0.000	0.840	1.553	3.484	5.671	10.266	15.233	21.892	30.393	40.907	53.081	66.792	81.556	91.350	95.877	99.991	100.000	100.000	100.000
	2015/6/3 18:00	0.000	0.000	0.881	1.657	3.777	6.187	11.238	16.685	23.912	32.885	42.789	54.983	70.567	85.655	95.265	98.877	100.000	100.000	100.000	100.000
	2015/6/3 19:00	0.000	0.000	0.778	1.543	3.612	5.947	11.156	17.080	24.927	34.283	44.301	55.742	69.371	83.319	92.083	95.728	99.989	100.000	100.000	100.000
	2015/6/3 20:00	0.000	0.000	0.510	1.285	3.416	5.832	11.944	18.948	27.833	37.716	47.392	58.712	71.841	86.160	95.797	99.056	100.000	100.000	100.000	100.000
	2015/6/3 21:00	0.000	0.000	0.524	1.275	3.370	5.799	11.984	18.616	26.945	36.921	50.524	65.386	76.399	89.675	97.689	99.718	100.000	100.000	100.000	100.000
	2015/6/3 22:00	0.000	0.000	0.148	0.982	3.219	5.729	12.811	20.723	30.420	41.122	51.401	63.276	77.999	90.358	97.922	99.851	100.000	100.000	100.000	100.000
	2015/6/3 23:00	0.000	0.000	0.304	1.126	3.351	5.844	12.850	20.519	29.903	40.166	50.605	63.071	76.788	89.429	97.445	99.688	100.000	100.000	100.000	100.000
	2015/6/4 0:00	0.000	0.000	0.035	0.860	2.996	5.366	12.822	21.171	31.046	41.405	51.219	62.873	76.159	88.647	97.402	99.795	100.000	100.000	100.000	100.000
	2015/6/4 1:00	0.000	0.000	0.018	0.770	2.849	5.211	12.523	20.800	30.627	40.979	50.392	61.997	76.063	89.757	98.209	99.923	100.000	100.000	100.000	100.000
	2015/6/4 2:00	0.000	0.000	0.100	0.931	3.144	5.621	12.784	20.823	30.433	40.692	50.283	61.748	75.703	89.439	98.081	99.915	100.000	100.000	100.000	100.000
	2015/6/4 3:00	0.000	0.000	0.020	0.851	3.151	5.781	13.862	22.709	33.083	44.024	53.935	65.464	79.695	91.375	98.449	99.939	100.000	100.000	100.000	100.000
	2015/6/4 4:00	0.000	0.000	0.667	1.428	3.545	6.015	12.099	18.362	26.349	35.826	48.271	61.221	72.085	85.983	95.391	98.942	100.000	100.000	100.000	100.000
	2015/6/4 5:00	0.000	0.000	0.019	0.849	3.198	5.981	15.038	24.345	35.147	46.917	60.809	71.529	78.769	90.682	98.438	99.940	100.000	100.000	100.000	100.000
	2015/6/4 6:00	0.000	0.000	0.021	0.862	3.201	5.950	15.268	24.880	35.972	47.702	59.545	69.802	79.848	91.411	98.513	99.943	100.000	100.000	100.000	100.000
	2015/6/4 7:00	0.000	0.000	0.020	0.837	3.121	5.799	14.594	23.812	34.552	46.254	59.385	69.419	77.016	89.842	98.303	99.930	100.000	100.000	100.000	100.000
2015/6/4 8:00	0.000	0.000	0.085	1.299	3.859	6.607	16.679	27.183	39.016	51.098	63.222	73.761	81.770	91.631	98.503	99.942	100.000	100.000	100.000	100.000	
2015/6/4 9:00	0.000	0.000	0.060	1.165	3.699	6.528	16.774	27.296	39.271	51.541	64.134	75.055	82.438	92.359	98.714	99.953	100.000	100.000	100.000	100.000	
横石	2015/6/3 16:00	0.000	0.000	0.795	1.420	3.160	5.194	9.471	13.907	20.134	28.646	40.921	55.823	70.272	85.058	95.450	99.193	100.000	100.000	100.000	100.000
	2015/6/3 17:00	0.000	0.000	0.891	1.643	3.706	6.065	10.925	16.006	23.061	32.189	42.400	54.437	69.351	83.039	92.120	96.736	99.995	100.000	100.000	100.000
	2015/6/3 18:00	0.000	0.000	0.417	1.094	2.996	5.194	10.703	16.929	25.372	36.221	49.640	62.402	75.854	89.970	98.143	99.910	100.000	100.000	100.000	100.000
	2015/6/3 19:00	0.000	0.000	0.383	1.082	3.055	5.376	11.849	18.961	28.307	39.665	53.015	65.588	78.589	91.245	98.421	99.932	100.000	100.000	100.000	100.000
	2015/6/3 20:00	0.000	0.000	0.529	1.240	3.213	5.487	11.129	17.410	25.712	36.145	49.892	63.701	75.969	89.587	98.005	99.892	100.000	100.000	100.000	100.000
	2015/6/3 21:00	0.000	0.000	0.511	1.272	3.419	5.902	11.719	18.073	26.333	36.363	50.654	67.320	78.315	90.618	97.923	99.773	100.000	100.000	100.000	100.000
	2015/6/3 22:00	0.000	0.000	0.357	1.132	3.295	5.780	12.340	19.496	28.441	39.167	54.405									