

(4) 水質（出水時調査）

1) 観測目的

荒瀬ダム上下流において、出水時の水の濁り等の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、③DO、④粒度組成

3) 観測時期・頻度

平成25年4月1日～平成25年9月30日の期間において、出水時に1回実施する。今年度は6月25日19時～26日18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	積分球式（カオリン校正）
	SS	JIS-K0102
	DO	JIS-K0102
	粒度組成	レーザ回折・散乱光式 ・測定範囲：0.020～2,000 μ m ・使用溶剤：水（分散剤は使用なし） ・超音波分散：1分

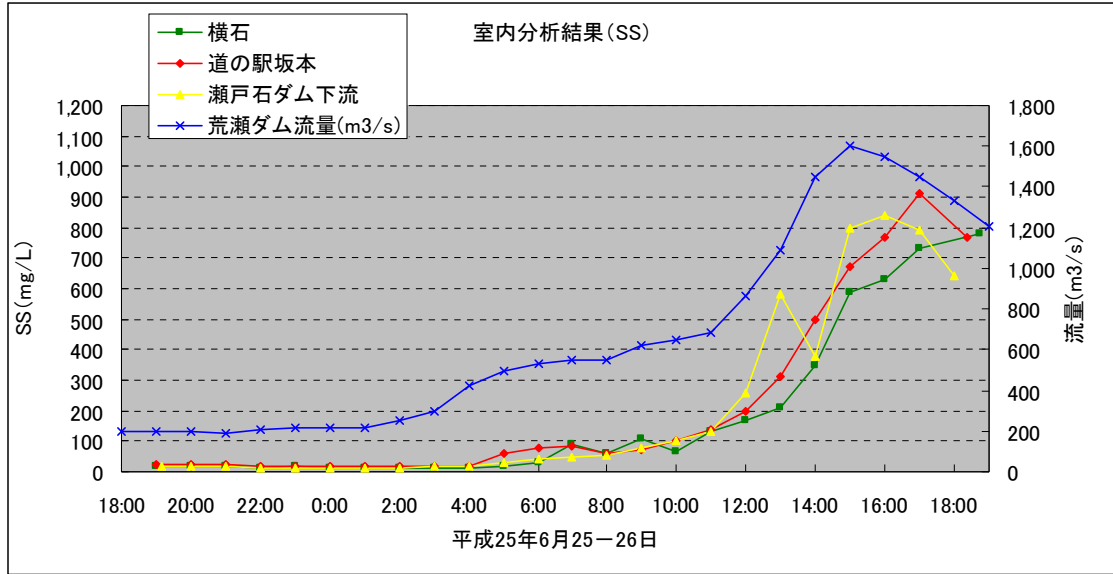
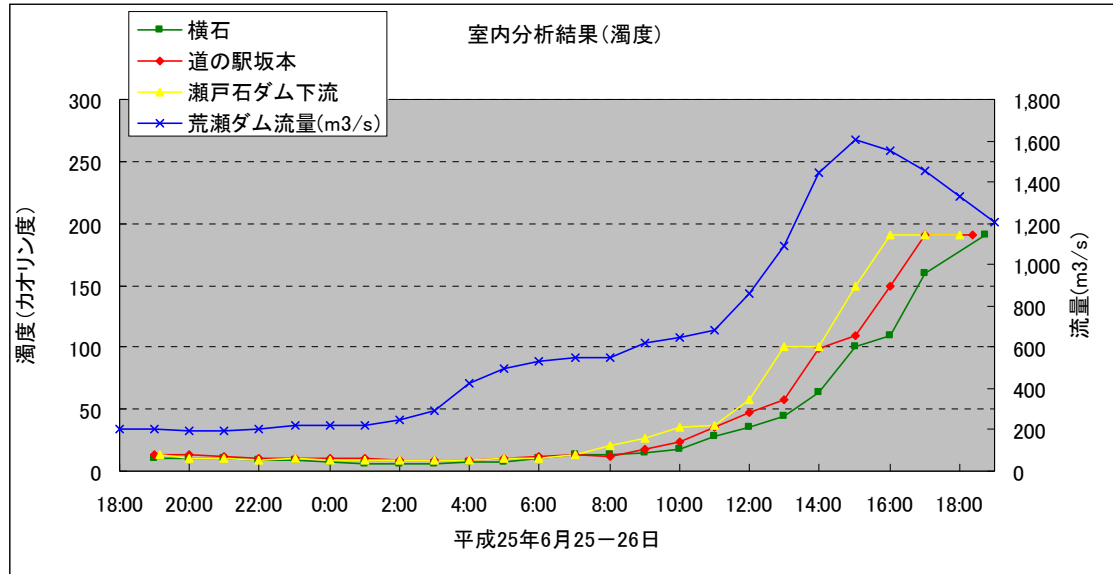
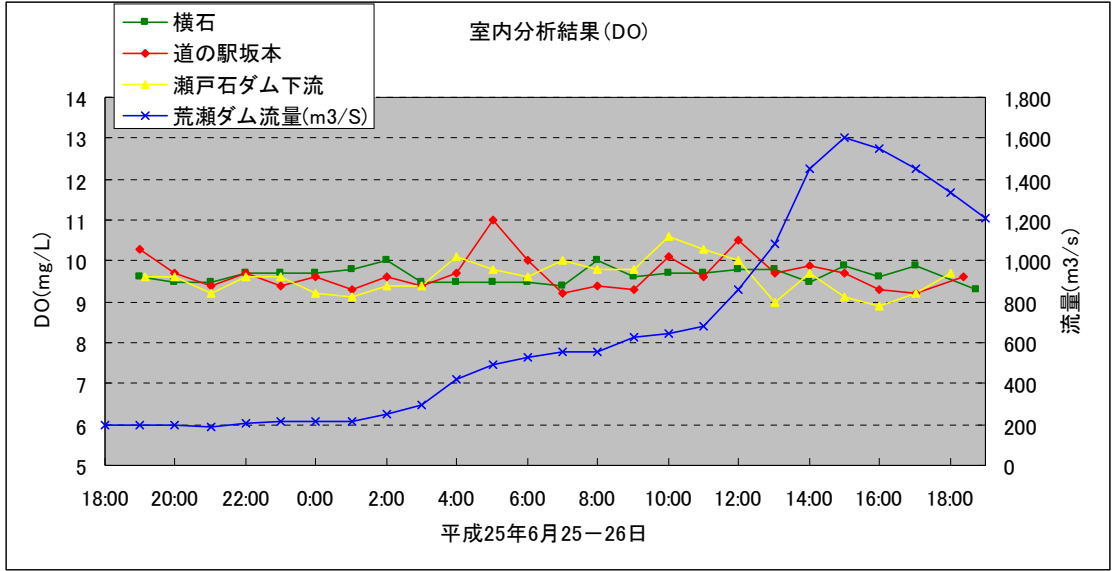
5) 観測地点

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

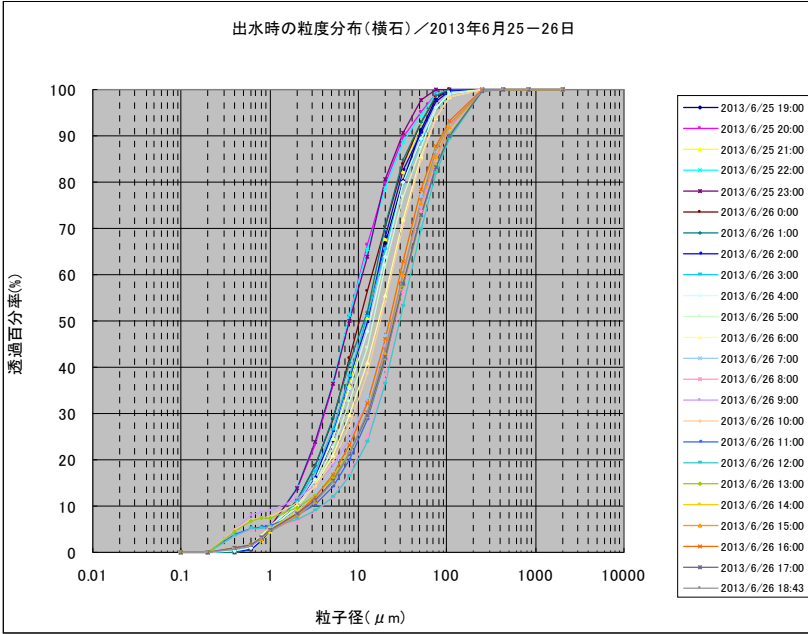
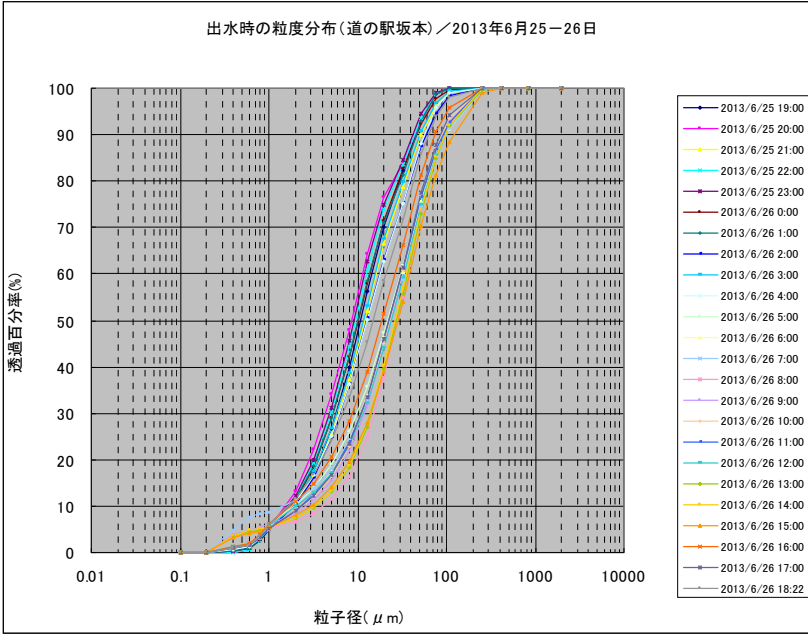
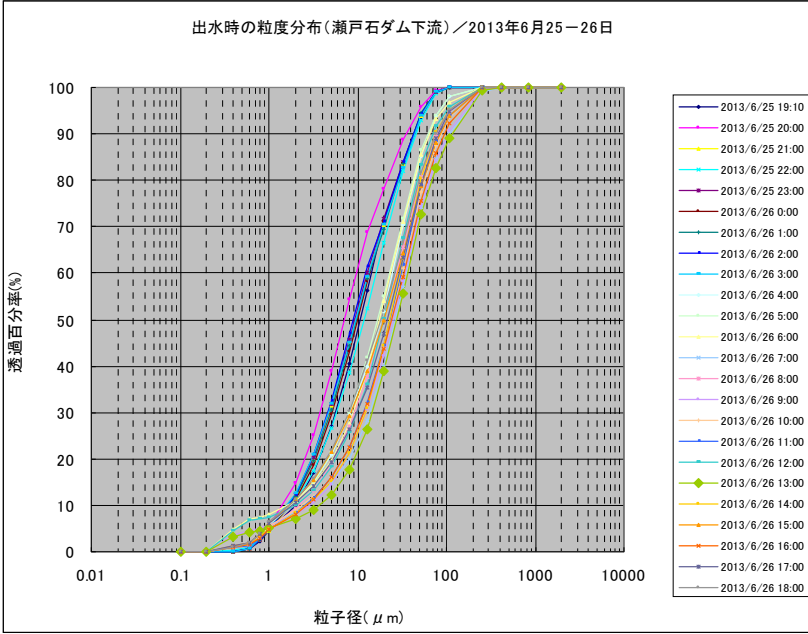


※この地図は、国土地理院発行の2万5千分の1地形図(坂本、中津道)を背景図として使用したものである。

6) 観測結果



No.	瀬戸石ダム下流				道の駅坂本				横石			
	採水時刻	濁度(カオリン)	SS(mg/l)	DO(mg/l)	採水時刻	濁度(カオリン)	SS(mg/l)	DO(mg/l)	採水時刻	濁度(カオリン)	SS(mg/l)	DO(mg/l)
1	19:10	13	18	9.6	19:00	14	27	10.3	19:00	10	21	9.6
2	20:00	11	17	9.6	20:00	13	25	9.7	20:00	10	17	9.5
3	21:00	10	19	9.2	21:00	12	24	9.4	21:00	9.9	17	9.5
4	22:00	9	15	9.6	22:00	11	20	9.7	22:00	9.3	15	9.7
5	23:00	9.8	13	9.6	23:00	11	19	9.4	23:00	8.6	16	9.7
6	0:00	8.5	13	9.2	0:00	10	19	9.6	0:00	7.4	15	9.7
7	1:00	8.9	14	9.1	1:00	10	19	9.3	1:00	6.6	12	9.8
8	2:00	8.2	12	9.4	2:00	9.3	20	9.6	2:00	6.3	12	10.0
9	3:00	9.2	18	9.4	3:00	9.2	18	9.4	3:00	6.6	13	9.5
10	4:00	8.5	20	10.1	4:00	8.8	21	9.7	4:00	7.3	13	9.5
11	5:00	10	28	9.8	5:00	10	62	11.0	5:00	7	17	9.5
12	6:00	11	40	9.6	6:00	12	76	10.0	6:00	10	33	9.5
13	7:00	13	47	10.0	7:00	13	82	9.2	7:00	13	89	9.4
14	8:00	20	56	9.8	8:00	12	60	9.4	8:00	14	62	10.0
15	9:00	26	79	9.8	9:00	17	75	9.3	9:00	15	110	9.6
16	10:00	35	100	10.6	10:00	24	100	10.1	10:00	17	68	9.7
17	11:00	37	130	10.3	11:00	36	140	9.6	11:00	28	130	9.7
18	12:00	58	260	10.0	12:00	47	200	10.5	12:00	35	170	9.8
19	13:00	100	580	9.0	13:00	58	310	9.7	13:00	45	210	9.8
20	14:00	100	380	9.7	14:00	99	500	9.9	14:00	64	350	9.5
21	15:00	150	800	9.1	15:00	110	670	9.7	15:00	100	590	9.9
22	16:00	190	840	8.9	16:00	150	770	9.3	16:00	110	630	9.6
23	17:00	190	790	9.2	17:00	190	910	9.2	17:00	160	730	9.9
24	18:00	190	640	9.7	18:22	190	770	9.6	18:43	190	780	9.3



		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	2013/6/25	19:10	0.000	0.000	0.017	0.653	2.391	4.342	10.015	16.886	27.025	40.417	56.222	71.245	83.673	93.478	98.883	99.954	100.000	100.000	100.000	100.000
		20:00	0.000	0.000	0.030	0.859	3.028	5.576	14.778	25.240	38.941	54.469	68.801	78.257	88.687	95.959	99.273	99.970	100.000	100.000	100.000	100.000
		21:00	0.000	0.000	0.016	0.667	2.484	4.609	11.695	20.089	31.504	45.331	59.239	70.445	83.752	93.785	98.897	99.956	100.000	100.000	100.000	100.000
		22:00	0.000	0.000	0.198	0.877	2.795	5.026	10.866	17.419	26.637	38.707	52.540	66.656	81.868	93.047	98.793	99.953	100.000	100.000	100.000	100.000
		23:00	0.000	0.000	0.016	0.711	2.673	4.975	12.123	20.411	31.724	45.518	60.089	71.738	83.780	94.333	99.098	99.967	100.000	100.000	100.000	100.000
	2013/6/26	0:00	0.000	0.000	0.094	0.763	2.605	4.754	11.134	18.689	29.502	43.145	58.189	71.041	83.669	94.300	99.102	99.968	100.000	100.000	100.000	100.000
		1:00	0.000	0.000	0.017	0.692	2.626	4.932	11.783	19.651	30.524	44.323	58.826	69.350	83.759	94.398	99.004	99.959	100.000	100.000	100.000	100.000
		2:00	0.000	0.000	0.016	0.687	2.568	4.784	12.191	20.815	32.504	46.922	61.315	71.167	84.082	94.226	98.958	99.957	100.000	100.000	100.000	100.000
		3:00	0.000	0.000	0.023	0.773	2.821	5.211	12.536	20.912	31.938	45.088	59.050	70.545	82.544	93.793	99.010	99.964	100.000	100.000	100.000	100.000
		4:00	0.000	0.000	0.995	1.674	3.653	6.056	10.780	14.999	21.015	29.473	39.958	51.865	70.353	85.171	93.748	98.125	100.000	100.000	100.000	100.000
		5:00	0.000	0.000	0.996	1.637	3.472	5.718	10.476	14.889	21.154	29.876	41.882	55.062	71.681	86.484	94.006	98.113	100.000	100.000	100.000	100.000
		6:00	0.000	0.000	4.975	7.065	7.534	7.910	10.840	14.311	19.682	27.538	39.031	53.892	70.968	85.687	93.145	96.736	99.994	100.000	100.000	100.000
		7:00	0.000	0.000	1.155	1.696	3.239	5.148	8.673	11.195	14.746	20.050	28.208	40.029	56.878	74.181	84.416	90.153	99.073	99.999	100.000	100.000
		8:00	0.000	0.000	0.853	1.477	3.217	5.252	9.311	13.336	19.124	27.075	37.666	50.184	65.755	80.747	89.517	94.717	99.986	100.000	100.000	100.000
		9:00	0.000	0.000	3.512	4.584	5.026	5.639	7.983	10.452	14.617	21.099	30.469	41.974	58.271	74.420	84.281	90.586	99.814	100.000	100.000	100.000
		10:00	0.000	0.000	1.055	1.648	3.317	5.315	9.025	12.025	16.232	22.448	31.653	44.007	61.029	77.635	87.422	93.619	99.988	100.000	100.000	100.000
		11:00	0.000	0.000	0.835	1.431	3.039	4.849	8.269	11.473	15.969	22.642	32.203	44.466	61.770	78.699	88.399	93.815	99.927	100.000	100.000	100.000
		12:00	0.000	0.000	4.658	6.638	7.069	7.386	10.027	13.249	18.248	25.595	36.157	50.067	67.488	83.385	91.671	95.816	99.992	100.000	100.000	100.000
		13:00	0.000	0.000	3.256	4.288	4.648	5.116	6.996	8.971	12.359	17.706	26.264	38.822	55.729	72.511	82.667	89.181	99.445	100.000	100.000	100.000
		14:00	0.000	0.000	1.019	1.556	3.066	4.892	8.349	11.162	15.181	21.293	30.802	44.413	62.914	80.546	90.326	95.197	99.932	100.000	100.000	100.000
		15:00	0.000	0.000	1.156	1.836	3.793	6.198	11.142	15.528	21.536	29.236	38.752	49.902	64.221	78.708	87.955	93.900	99.989	100.000	100.000	100.000
		16:00	0.000	0.000	0.844	1.449	3.043	4.792	8.125	11.396	15.936	22.453	31.707	43.598	59.311	75.423	85.841	92.392	99.885	100.000	100.000	100.000
		17:00	0.000	0.000	1.267	1.902	3.738	6.037	10.569	14.135	19.133	26.225	35.506	46.882	63.399	79.132	89.008	94.873	99.992	100.000	100.000	100.000
		18:00	0.000	0.000	1.112	1.870	3.943	6.345	11.105	15.611	21.735	30.212	41.092	51.687	66.552	81.590	90.164	95.047	99.991	100.000	100.000	100.000
道の駅坂本	2013/6/25	19:00	0.000	0.000	0.286	0.935	2.763	4.881	10.505	17.000	26.596	39.886	56.419	70.220	82.412	93.355	98.773	99.929	100.000	100.000	100.000	100.000
		20:00	0.000	0.000	0.016	0.729	2.785	5.237	13.123	22.128	34.044	48.070	64.189	76.594	84.048	93.044	98.765	99.956	100.000	100.000	100.000	100.000
		21:00	0.000	0.000	0.643	1.294	3.143	5.362	10.820	16.771	25.537	37.215	52.097	66.569	78.778	89.901	96.289	99.034	100.000	100.000	100.000	100.000
		22:00	0.000	0.000	0.119	0.802	2.662	4.818	11.437	19.247	30.263	44.222	60.679	74.084	83.658	93.435	98.797	99.935	100.000	100.000	100.000	100.000
		23:00	0.000	0.000	0.259	0.921	2.862	5.228	12.158	20.028	31.237	45.522	62.654	74.845	84.555	94.563	99.140	99.968	100.000	100.000	100.000	100.000
	2013/6/26	0:00	0.000	0.000	0.246	0.896	2.727	4.881	11.172	18.426	28.824	42.259	58.034	71.240	82.559	92.439	97.766	99.549	100.000	100.000	100.000	100.000
		1:00	0.000	0.000	0.317	0.960	2.832	5.101	11.515	18.707	28.982	42.315	58.631	70.954	81.417	92.885	98.803	99.954	100.000	100.000	100.000	100.000
		2:00	0.000	0.000	0.568	1.189	2.946	5.039	10.284	16.138	24.764	36.440	50.642	62.866	75.212	87.313	94.631	98.459	100.000	100.000	100.000	100.000
		3:00	0.000	0.000	0.502	1.136	2.948	5.130	10.939	17.298	26.575	38.544	53.065	67.513	79.816	90.599	96.809	99.204	100.000	100.000	100.000	100.000
		4:00	0.000	0.000	0.680	1.342	3.206	5.432	10.865	16.773	25.179	36.365	50.307	62.814	75.313	88.182	95.972	99.135	100.000	100.000	100.000	100.000
		5:00	0.000	0.000	1.231	1.865	3.664	5.879	10.275	13.927	18.991	26.015	35.809	47.298	61.673	77.038	87.517	94.150	99.990	100.000	100.000	100.000
		6:00	0.000	0.000	1.069	1.664	3.302	5.245	9.028	12.456	17.276	24.013	33.821	46.342	60.585	75.515	85.401	91.187	99.780	100.000	100.000	100.000
		7:00	0.000	0.000	4.909	7.632	8.358	8.660	11.160	13.981	18.100	24.047	32.985	44.521	58.935	74.310	84.633	91.378	99.827	100.000	100.000	100.000
		8:00	0.000	0.000	3.216	4.295	4.609	4.985	6.681	8.459	11.481	16.373	24.857	37.608	54.926	73.265	85.147	92.359	99.886	100.000	100.000	100.000
		9:00	0.000	0.000	3.730	4.898	5.355	5.979	8.514	11.156	15.421	21.765	31.484	44.541	60.847	77.002	86.980	92.732	99.849	100.000	100.000	100.000
		10:00	0.000	0.000	1.111	1.677	3.267	5.205	8.941	12.047	16.493	22.933	32.523	45.019	60.656	76.719	87.279	93.441	99.876	100.000	100.000	100.000
		11:00	0.000	0.000	1.032	1.623	3.277	5.257	9.098	12.450	17.167	23.833	33.545	45.840	61.105	76.630	86.710	92.764	99.869	100.000	100.000	100.000
		12:00	0.000	0.000	1.305	1.883	3.568	5.716	9.897	12.903	17.068	23.062	32.136	43.959	59.064	74.961	85.514	91.851	99.739	100.000	100.000	100.000
		13:00	0.000	0.000	3.473	4.608	4.980	5.455	7.493	9.605	13.089	18.396	27.141	39.657	55.722	73.100	84.746	91.816	99.825	100.000	100.000	100.000
		14:00	0.000	0.000	3.581	4.859	5.173	5.508	7.417	9.558	13.085	18.544	27.626	40.267	56.767	73.966	85.131	92.107	99.877	100.000	100.000	100.000
		15:00	0.000	0.000	3.270	4.096	4.602	5.393	7.943	10.315	14.102	19.542	27.830	38.930	53.936	70.430	81.489	88.474	99.158	100.000	100.000	100.000
		16:00	0.000	0.000	1.240	1.867	3.701	6.029	10.860	14.849	20.451	28.137	38.961	51.486	66.360	81.389	90.682	95.828	99.993	100.000	100.000	