

Pacific Fleet  
Gunnery log for Orel

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
11:05	19,538	-1,001	1 AP			Kaga
11:06	18,548	-980	5 AP			Kaga
11:07	17,620	-927	6 AP			Kaga
11:08	16,753	-906	7 AP			Kaga
11:09	15,866	-886	9 AP			Kaga
11:10	14,959	-905	6 AP			Kaga
11:11	14,340	-619	5 AP		1 hit	Kaga
11:12	13,802	-542	8 AP		1 hit	Kaga
11:13	13,279	-523	5 AP			Kaga
11:14	12,775	-504	6 AP			Kaga
11:15	12,290	-485	7 AP			Kaga
11:16	11,824	-466	5 AP			Kaga
11:17	12,086	269	6 AP			Kaga
11:18	12,236	188	8 AP		2 hits	Kaga
11:19	12,468	236	6 AP		1 hit	Kaga
11:20	12,746	283	9 AP			Kaga
11:21	13,070	328	5 AP			Kaga
11:22	13,358	289	6 AP		1 hit	Kaga
11:23	13,628	293	5 AP			Kaga
11:24	13,922	296	5 AP			Kaga
11:25	14,219	300	5 AP			Kaga
11:26	14,519	300	5 AP			Kaga
11:27	14,758	240	4 AP			Kaga
11:28	15,000	243	4 AP			Kaga
11:29	15,245	247	6 AP			Kaga
11:30	15,492	250	5 AP		1 hit	Kaga
11:31	15,742	250	7 AP rapid			Kaga
11:32	15,761	19	4 AP		2 hits	Kaga
11:33	15,774	19	8 AP rapid			Kaga
11:34	15,794	21	3 AP			Kaga
11:35	15,814	21	4 AP			Kaga
11:36	15,835	21	5 AP		1 hit	Kaga
11:37	15,826	-8	8 AP rapid		1 hit	Kaga
11:38	15,822	-4	7 AP rapid			Kaga
11:39	15,822	0	4 AP			Kaga
11:40	15,826	4	6 AP			Kaga
11:41	15,831	5	5 AP		2 hits	Kaga
11:42	15,638	-192	5 AP rapid			Kaga
11:43	15,462	-192	6 AP			Kaga
11:44	15,270	-192	5 AP			Kaga
11:45	15,078	-191	4 AP			Kaga
11:46	14,887	-191	4 AP		1 hit	Kaga
11:47	14,768	-118	5 AP			Kaga

## Cape Shoppeck Gunnery Logs

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11:48	14,637	-131	5 AP		Kaga
11:49	14,506	-131	4 AP	1 hit	Kaga
11:50	14,375	-131	5 AP	1 hit	Kaga
11:51	14,244	-131	4 AP		Kaga
11:52	14,152	-92	6 AP		Kaga
11:53	14,059	-92	3 AP		Kaga
11:54	13,967	-92	3 AP		Kaga
11:55	13,875	-92	4 AP		Kaga
11:56	13,783	-92	3 AP	1 hit	Kaga
11:57	13,691	-92	4 AP		Kaga
11:58	13,599	-92	3 AP	1 hit	Kaga
11:59	13,507	-92	6 AP rapid	1 hit	Kaga
12:00	13,415	-92	4 AP		Kaga
12:01	13,323	-92	3 AP		Kaga
12:02	13,988	681	3 AP		Kaga
12:03	14,279	304	4 AP		Kaga
12:04	14,536	257	3 AP		Kaga
12:05	14,893	357	2 AP	1 hit	Kaga
12:10	14,272	-280	1 AP		Kaga
	Primary Total		309 shells	20 hits	406mm/45

## Gunnery log for Slava

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
11:06	18,890	-983	4 AP		Kaga
11:07	18,218	-671	5 AP		Kaga
11:08	17,379	-877	7 AP		Kaga
11:09	16,521	-858	8 AP	1 hit	Kaga
11:10	16,099	-906	7 AP		Tosa
11:11	15,118	-598	11 AP		Tosa
11:12	14,524	-593	7 AP	1 hit	Tosa
11:13	13,963	-552	6 AP		Tosa
11:14	13,407	-555	9 AP	1 hit	Tosa
11:15	12,861	-531	7 AP	1 hit	Tosa
11:16	12,400	-517	6 AP	1 hit	Tosa
11:17	11,929	-495	7 AP		Tosa
11:18	12,088	159	5 AP		Tosa
11:19	12,038	156	7 AP		Tosa
11:20	12,237	91	6 AP	1 hit	Tosa
11:21	12,358	158	6 AP	1 hit	Tosa
11:22	12,540	193	7 AP	1 hit	Tosa
11:23	12,746	252	7 AP		Tosa
11:24	13,009	264	6 AP	1 hit	Tosa
11:25	13,286	291	6 AP		Tosa
11:26	13,596	291	8 AP		Tosa
11:27	13,894	310	9 AP		Tosa
11:28	14,167	273	6 AP		Tosa
11:29	14,448	282	6 AP		Tosa
11:30	14,743	307	5 AP	1 hit	Tosa
11:31	15,065	322	5 AP		Tosa
11:32	15,413	355	6 AP		Tosa
11:33	15,733	47	7 AP	1 hit	Tosa
11:34	15,755	38	5 AP rapid		Tosa
11:35	15,772	36	6 AP	1 hit	Tosa
11:36	15,796	28	3 AP	1 hit	Tosa
11:37	15,817	27	5 AP rapid	4 hits	Tosa
11:38	15,822	-4	5 AP rapid		Tosa
11:39	15,822	0	4 AP		Tosa
11:40	15,826	0	4 AP		Tosa
11:41	15,956	6	4 AP		Kaga
11:42	15,956	0	2 AP		Kaga
11:43	15,879	-189	2 AP		Kaga
11:44	15,690	-189	1 AP		Kaga
11:45	15,502	-189	3 AP		Kaga
11:46	15,174	-191	1 AP		Tosa
11:47	14,641	-533	3 AP		Tosa
11:48	14,104	-556	3 AP		Tosa
11:49	13,532	-572	3 AP		Tosa

## Cape Shoppeck Gunnery Logs

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11:50	12,960	-572	3 AP	1 hit	Tosa
11:51	12,388	-572	3 AP		Tosa
11:52	12,542	156	3 AP		Tosa
11:53	12,458	-65	3 AP		Tosa
11:54	12,189	-245	1 AP		Tosa
11:55	12,043	-129	1 AP		Tosa
11:57	12,635	702	1 AP		Tosa
12:07	14,595	97	1 AP		Tosa
	Primary Total		256 shells	18 hits	406mm/45

## Gunnery log for Tsessarevitch

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
11:06	19,221	-1,015	1 AP			Kaga
11:07	18,501	-660	5 AP			Kaga
11:08	17,698	-797	4 AP			Kaga
11:09	16,846	-830	6 AP			Kaga
11:10	15,983	-840	11 AP		1 hit	Kaga
11:11	15,406	-554	9 AP	rapid	2 hits	Kaga
11:12	14,854	-554	8 AP		1 hit	Kaga
11:13	14,253	-532	11 AP		2 hits	Kaga
11:14	13,815	-481	10 AP			Tosa
11:15	13,327	-457	6 AP			Tosa
11:16	12,867	-440	7 AP			Tosa
11:17	12,400	-416	7 AP			Tosa
11:18	12,566	171	6 AP		1 hit	Tosa
11:19	12,489	129	4 AP			Tosa
11:20	12,579	82	6 AP		1 hit	Tosa
11:21	12,686	115	6 AP			Tosa
11:22	12,816	175	4 AP			Tosa
11:23	13,007	197	6 AP			Tosa
11:24	13,221	217	4 AP			Tosa
11:25	13,384	277	6 AP		1 hit	Tosa
11:26	13,681	276	7 AP			Tosa
11:27	13,963	299	6 AP			Tosa
11:28	14,249	287	8 AP			Tosa
11:29	14,544	297	9 AP			Tosa
11:30	14,850	302	7 AP		1 hit	Tosa
11:31	15,167	317	6 AP	rapid		Tosa
11:32	15,510	353	7 AP			Tosa
11:33	15,834	52	6 AP		1 hit	Tosa
11:34	15,853	39	8 AP	rapid	1 hit	Tosa
11:35	15,863	37	7 AP		1 hit	Tosa
11:36	15,884	26	5 AP			Tosa
11:37	15,900	25	7 AP		2 hits	Tosa
11:38	15,925	24	6 AP		1 hit	Tosa
11:39	15,944	0	8 AP		1 hit	Tosa
11:40	15,950	0	8 AP		2 hits	Tosa
11:41	15,956	0	7 AP			Tosa
11:42	15,956	0	6 AP		1 hit	Tosa
11:43	15,962	0	7 AP		1 hit	Tosa
11:44	15,962	0	5 AP			Tosa
11:45	15,785	-189	6 AP		2 hits	Tosa
11:46	15,462	-192	8 AP			Nagato
11:47	14,929	-533	7 AP			Nagato
11:48	14,412	-517	7 AP			Nagato
11:49	13,879	-533	6 AP			Nagato

11:50	13,306	-573	6 AP		Nagato
11:51	12,734	-573	8 AP		Nagato
11:52	12,871	140	8 AP	1 hit	Nagato
11:53	12,800	-49	10 AP	4 hits	Nagato
11:54	14,785	-160	7 AP		Kaga
11:55	14,605	-180	9 AP		Kaga
11:56	14,407	-197	8 AP	1 hit	Kaga
11:57	14,191	-213	9 AP rapid		Kaga
11:58	14,018	-184	7 AP		Kaga
11:59	13,925	-166	10 AP	1 hit	Kaga
12:00	13,832	-148	8 AP		Kaga
12:01	13,739	-130	8 AP		Kaga
12:02	13,920	180	7 AP	1 hit	Kaga
12:03	13,491	382	8 AP		Mutsu
12:04	13,874	371	10 AP		Mutsu
12:05	14,256	382	8 AP		Mutsu
12:06	14,638	382	7 AP	1 hit	Mutsu
12:07	14,681	52	4 AP rapid		Mutsu
12:08	13,478	-643	3 AP		Kaga
12:09	13,259	-211	8 AP		Kaga
12:10	13,097	-154	10 AP		Kaga
12:11	13,068	-22	11 AP		Kaga
12:12	13,516	453	3 AP		Kaga
12:13	13,256	376	7 AP	1 hit	Kaga
12:14	15,049	96	8 AP		Mutsu
12:15	15,093	136	10 AP		Mutsu
12:16	15,121	117	8 AP	1 hit	Mutsu
12:17	15,311	190	8 HE rapid	1 hit	Mutsu
12:18	15,528	89	8 HE	1 hit	Mutsu
12:19	15,545	89	11 HE rapid	1 hit	Mutsu
12:20	15,525	70	7 HE rapid	2 hits	Mutsu
12:21	15,489	52	10 HE rapid		Mutsu
12:22	14,449	-597	4 HE		Mutsu
12:23	13,778	-585	3 HE	1 hit	Mutsu
12:24	13,192	-73	7 HE		Tosa
12:25	13,120	-73	6 HE		Tosa
12:26	13,081	-56	8 HE		Tosa
12:27	12,859	-240	6 HE	1 hit	Tosa
12:28	12,653	-223	5 HE		Tosa
12:29	12,431	-221	7 HE		Tosa
12:30	12,211	-219	8 HE		Tosa
12:31	6,973	-968	2 HE		Fuso
12:32	6,523	-447	6 HE		Fuso
12:33	6,280	-235	6 HE	1 hit	Fuso
12:34	6,168	-107	6 HE	1 hit	Fuso
12:35	5,937	-220	2 HE		Fuso
12:36	5,725	-201	2 HE		Fuso
	Primary Total		623 shells	43 hits	406mm/45

## Gunnery log for Suvorow

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
11:06	19,592	-967	1 AP			Kaga
11:07	18,961	-630	3 AP			Kaga
11:08	18,364	-630	3 AP			Kaga
11:09	17,735	-629	7 AP			Kaga
11:10	16,916	-819	2 AP			Kaga
11:11	16,365	-551	2 AP			Kaga
11:12	15,814	-550	3 AP		1 hit	Kaga
11:13	15,239	-575	3 AP	rapid	1 hit	Kaga
11:14	14,725	-577	12 AP			Nagato
11:15	14,169	-553	10 AP		1 hit	Nagato
11:16	13,593	-569	10 AP		1 hit	Nagato
11:17	13,021	-572	8 AP		1 hit	Nagato
11:18	12,530	-548	6 AP		1 hit	Nagato
11:19	12,063	-528	7 AP		1 hit	Nagato
11:20	12,245	164	6 AP			Nagato
11:21	12,511	101	4 AP			Nagato
11:22	12,665	165	4 AP			Nagato
11:23	12,868	225	4 AP			Nagato
11:24	13,011	172	4 AP		1 hit	Nagato
11:25	13,299	290	3 AP			Nagato
11:26	13,581	285	3 AP			Nagato
11:27	13,907	317	5 AP			Nagato
11:28	14,209	303	6 AP			Nagato
11:29	14,517	308	7 AP		1 hit	Nagato
11:30	14,789	278	5 AP			Nagato
11:31	15,060	271	3 AP			Nagato
11:32	15,336	289	4 AP			Nagato
11:33	15,589	276	4 AP			Nagato
11:34	15,812	20	5 AP			Nagato
11:35	15,822	18	4 AP			Nagato
11:36	15,842	14	5 AP			Nagato
11:37	15,858	19	5 AP		1 hit	Nagato
11:38	15,884	24	3 AP			Nagato
11:39	15,913	28	3 AP		1 hit	Nagato
11:40	15,946	28	5 AP			Nagato
11:41	15,956	0	5 AP			Nagato
11:42	15,956	0	5 AP			Nagato
11:43	15,962	0	5 AP			Nagato
11:44	15,962	0	5 AP			Nagato
11:45	15,962	0	3 AP			Nagato
11:46	15,751	-192	3 AP			Mutsu
11:47	15,563	-188	5 AP			Mutsu
11:48	15,492	-69	4 AP			Mutsu
11:49	15,434	-58	5 AP			Mutsu

11:50	15,388	-44	6 AP		Mutsu
11:51	15,338	-66	4 AP	1 hit	Mutsu
11:52	15,251	-87	4 AP		Mutsu
11:53	15,134	-115	5 AP		Mutsu
11:54	14,998	-134	6 AP		Mutsu
11:55	14,688	-89	6 AP		Mutsu
11:56	14,491	-124	5 AP		Mutsu
11:57	14,276	-157	6 AP		Mutsu
11:58	14,116	-142	6 AP		Mutsu
11:59	14,023	-138	4 AP		Mutsu
12:00	13,930	-120	5 AP		Mutsu
12:01	13,837	-101	3 AP		Mutsu
12:02	13,771	-83	5 AP	1 hit	Mutsu
12:03	13,742	-65	5 AP		Mutsu
12:04	13,677	-65	5 AP		Mutsu
12:05	14,003	381	5 AP		Mutsu
12:06	14,384	372	5 AP	1 hit	Mutsu
12:07	15,432	1,050	1 AP		Mutsu
12:08	16,114	704	2 AP		Mutsu
12:09	16,812	350	2 AP		Mutsu
12:10	17,484	508	1 AP		Mutsu
12:11	18,383	503	1 AP		Mutsu
12:12	18,965	538	2 AP	1 hit	Mutsu
12:14	19,573	605	1 AP		Mutsu
	Primary Total		304 shells	15 hits	406mm/45



## Gunnery log for Borodino

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
11:07	19,393	-680	1 AP		Kaga
11:08	18,742	-682	6 AP	1 hit	Kaga
11:09	18,076	-665	15 AP rapid	1 hit	Kaga
11:10	18,224	-687	6 AP		Nagato
11:11	17,274	-913	4 AP		Nagato
11:12	16,280	-556	7 AP	1 hit	Nagato
11:13	15,752	-530	28 AP rapid	2 hits	Nagato
11:14	15,249	-503	28 AP rapid		Nagato
11:15	14,746	-501	14 AP	1 hit	Nagato
11:16	14,027	-478	21 AP rapid	2 hits	Nagato
11:17	13,547	-480	16 AP	2 hits	Nagato
11:18	13,071	-478	23 AP rapid	4 hits	Nagato
11:19	12,593	-478	13 AP	2 hits	Nagato
11:20	12,716	96	17 AP rapid		Nagato
11:21	12,967	82	13 AP		Nagato
11:22	13,090	131	10 AP	1 hit	Nagato
11:23	13,263	180	11 AP		Nagato
11:24	13,390	128	10 AP		Nagato
11:25	13,547	159	12 AP	3 hits	Nagato
11:26	13,721	285	16 AP rapid	3 hits	Nagato
11:27	14,033	313	13 AP rapid	2 hits	Nagato
11:28	14,348	317	19 AP rapid		Nagato
11:29	14,666	321	9 AP		Nagato
11:30	14,980	316	11 AP		Nagato
11:31	15,271	254	9 AP		Nagato
11:32	15,533	263	8 AP		Nagato
11:33	15,778	252	4 AP		Nagato
11:34	16,210	235	2 AP		Nagato
11:35	16,445	226	2 AP		Nagato
11:36	16,681	228	1 AP		Nagato
11:37	16,906	218	1 AP		Nagato
11:38	16,795	-119	1 AP		Nagato
	Primary Total		351 shells	25 hits	356mm/52

## Gunnery log for Navarin

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
11:08	19,160	-667	3 AP			Kaga
11:09	18,490	-634	3 AP			Kaga
11:11	18,581	-898	6 AP			Mutsu
11:12	17,835	-745	7 AP			Mutsu
11:13	17,083	-693	9 AP		1 hit	Mutsu
11:14	16,447	-619	13 AP		1 hit	Mutsu
11:15	15,837	-584	34 AP	rapid	5 hits	Mutsu
11:16	15,222	-600	24 AP	rapid	3 hits	Mutsu
11:17	14,627	-595	15 AP		1 hit	Mutsu
11:18	14,290	-337	30 AP	rapid	2 hits	Mutsu
11:19	13,984	-179	5 AP			Mutsu
11:20	13,930	-54	7 AP			Mutsu
11:21	14,030	41	10 AP			Mutsu
11:22	14,057	105	13 AP		1 hit	Mutsu
11:23	14,146	126	13 AP			Mutsu
11:24	14,256	113	12 AP			Mutsu
11:25	14,333	127	15 AP		1 hit	Mutsu
11:26	14,460	130	13 AP			Mutsu
11:27	14,626	165	9 AP			Mutsu
11:28	14,723	235	8 AP		2 hits	Mutsu
11:29	14,950	230	28 AP	rapid	3 hits	Mutsu
11:30	15,167	242	7 AP			Mutsu
11:31	15,403	239	9 AP			Mutsu
11:32	15,547	147	14 AP		1 hit	Mutsu
11:33	15,657	108	24 AP	rapid	1 hit	Mutsu
11:34	15,737	90	8 AP			Mutsu
11:35	15,965	278	10 AP			Mutsu
11:36	16,232	268	7 AP			Mutsu
11:37	16,485	248	9 AP		1 hit	Mutsu
11:38	16,726	237	8 AP			Mutsu
11:39	16,794	-2	13 AP		2 hits	Mutsu
11:40	17,113	-275	2 AP			Tosa
11:41	17,252	144	9 AP			Tosa
11:42	17,131	-118	2 AP			Tosa
11:43	17,218	88	10 AP		1 hit	Tosa
11:44	17,291	74	31 AP	rapid	1 hit	Tosa
11:45	17,352	61	12 AP			Tosa
11:46	16,083	165	13 AP			Ise
11:47	16,364	281	11 AP			Ise
11:48	16,654	290	10 AP		1 hit	Ise
11:49	16,935	281	23 AP	rapid		Ise
11:50	17,225	290	7 AP			Ise
11:51	17,507	281	8 AP		1 hit	Ise
11:52	17,775	268	17 AP	rapid		Ise

11:53	18,013	238	5 AP		Ise
11:54	18,242	44	2 AP		Ise
11:55	18,310	44	1 AP		Ise
11:56	18,413	-96	2 AP		Kaga
11:57	18,317	-96	1 AP		Kaga
11:58	18,221	-96	2 AP		Kaga
11:59	18,124	-96	1 AP		Kaga
12:00	18,028	-96	2 AP		Kaga
12:01	17,931	-96	2 AP		Kaga
12:02	17,757	-173	2 AP		Kaga
12:03	17,579	-177	9 AP		Kaga
12:04	17,359	-218	7 AP		Kaga
12:05	17,221	-137	8 AP		Kaga
12:06	17,112	-108	7 AP		Kaga
12:07	16,440	-671	10 AP		Kaga
12:08	15,822	-617	10 AP		Kaga
12:09	15,229	-591	10 AP		Kaga
12:10	14,579	-650	10 AP		Kaga
12:11	14,005	-567	14 AP		Kaga
12:12	13,748	-250	12 AP		Kaga
12:13	13,619	402	10 AP		Kaga
12:14	17,543	-30	1 HE		Ise
12:15	17,612	70	2 HE		Ise
12:16	17,657	45	1 HE		Ise
12:17	17,694	37	8 AP		Ise
12:18	17,708	14	7 AP		Ise
12:19	17,700	-8	6 AP		Ise
12:20	17,671	-30	6 HE		Ise
12:21	17,619	-51	5 HE		Ise
12:22	16,977	-635	2 HE		Ise
12:23	16,410	-595	2 HE		Ise
12:24	14,052	-604	2 HE		Mutsu
12:25	13,487	-563	3 HE		Mutsu
12:26	12,963	-519	4 HE	2 hits	Mutsu
12:27	12,482	-472	5 HE	rapid	Mutsu
12:28	12,013	-465	4 HE		Mutsu
12:29	11,554	-453	4 HE		Mutsu
12:34	12,037	-185	7 HE		Tosa
12:35	11,847	-189	10 HE	1 hit	Tosa
12:36	11,655	-191	11 HE	rapid	Tosa
12:37	11,468	-187	7 HE	1 hit	Tosa
12:38	11,286	-182	8 HE		Tosa
12:39	11,106	-179	4 HE		Tosa
12:40	10,913	-192	7 HE		Tosa
12:41	10,727	-183	5 HE		Tosa
12:42	10,529	-196	7 HE		Tosa
12:43	10,315	-213	4 HE		Tosa
12:44	10,128	-184	5 HE		Tosa

12:45	9,946	-180	5 HE		Tosa
	Primary	Total	810 shells	33 hits	356mm/52

## Gunnery log for Ismail

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
11:09	18,948	-654	3 AP			Kaga
11:11	19,038	-370	5 AP			Hyuga
11:12	18,575	-468	5 AP			Hyuga
11:13	17,806	-894	6 AP			Hyuga
11:14	17,007	-819	9 AP			Hyuga
11:15	15,995	-495	11 AP			Hyuga
11:16	15,461	-521	13 AP		1 hit	Hyuga
11:17	14,934	-528	13 AP			Hyuga
11:18	14,392	-542	4 AP			Hyuga
11:19	13,730	-504	4 AP		1 hit	Hyuga
11:20	13,247	-483	10 AP		1 hit	Hyuga
11:21	12,845	-463	10 AP			Hyuga
11:22	12,317	143	10 AP			Hyuga
11:23	12,451	207	13 AP			Hyuga
11:24	12,554	115	14 AP		3 hits	Hyuga
11:25	12,676	178	17 AP		2 hits	Hyuga
11:26	12,892	225	10 AP			Hyuga
11:27	13,149	267	12 AP		1 hit	Hyuga
11:28	13,394	269	27 AP	rapid	2 hits	Hyuga
11:29	13,911	262	7 AP			Hyuga
11:30	14,205	295	11 AP		1 hit	Hyuga
11:31	16,985	260	9 AP			Kaga
11:32	17,015	29	9 AP			Kaga
11:33	17,024	1	8 AP			Kaga
11:34	17,026	14	7 AP		1 hit	Kaga
11:35	17,027	27	31 AP	rapid	1 hit	Kaga
11:36	17,217	190	14 AP	rapid		Kaga
11:37	17,405	187	6 AP		1 hit	Kaga
11:38	17,625	190	8 AP			Kaga
11:39	17,836	193	8 AP			Kaga
11:40	17,562	-360	2 AP			Nagato
11:41	17,138	64	9 AP		1 hit	Nagato
11:42	17,240	136	7 AP		2 hits	Nagato
11:43	17,395	158	9 AP		4 hits	Nagato
11:44	17,241	-144	5 AP	rapid		Nagato
11:45	17,302	115	11 AP			Nagato
11:46	15,665	242	10 AP			Yamashiro
11:47	15,886	225	11 AP			Yamashiro
11:48	16,207	324	8 AP			Yamashiro
11:49	16,529	322	9 AP			Yamashiro
11:50	16,869	341	7 AP		1 hit	Yamashiro
11:51	17,190	321	9 AP			Yamashiro
11:52	17,499	310	6 AP			Yamashiro
11:53	17,795	296	9 AP			Yamashiro

11:54	18,078	283	3 AP		Yamashiro
11:55	18,347	269	6 AP		Yamashiro
11:56	18,455	109	6 AP		Yamashiro
11:57	18,524	69	4 AP		Yamashiro
11:58	18,488	24	6 AP		Yamashiro
11:59	18,382	23	5 AP		Yamashiro
12:00	18,382	23	6 AP		Yamashiro
12:01	18,360	-20	1 AP		Yamashiro
12:02	18,375	15	2 AP		Yamashiro
12:04	18,962	-25	1 AP		Ise
12:05	18,937	-25	2 AP		Ise
12:06	18,886	-25	1 AP		Ise
12:07	18,810	-50	1 AP		Ise
12:08	18,709	-76	1 AP		Ise
12:09	18,582	-102	1 AP		Ise
12:10	18,430	-126	2 AP		Ise
12:11	18,253	-151	1 AP		Ise
12:12	18,125	-153	2 AP		Ise
12:13	18,045	-129	1 AP		Ise
12:14	18,073	-129	2 AP		Ise
12:15	18,211	-129	1 AP		Ise
12:16	18,259	-130	2 AP		Ise
12:17	18,258	-154	1 AP		Ise
12:18	18,253	-102	7 AP	1 hit	Ise
12:19	18,244	-102	4 AP		Ise
12:20	18,212	-102	5 AP		Ise
12:21	18,157	-99	4 AP		Ise
12:22	17,697	-529	7 AP		Ise
12:23	17,179	-724	2 AP		Ise
12:24	16,623	-712	3 AP		Ise
12:25	16,111	-705	3 AP		Ise
12:26	15,644	-690	3 AP		Ise
12:27	15,222	-678	2 AP		Ise
12:28	14,809	-674	3 AP		Ise
12:29	14,404	-664	4 AP		Ise
12:30	13,269	-375	14 AP		Tosa
12:31	9,583	-1,255	4 HE		Yamashiro
12:32	9,100	-697	6 HE	1 hit	Yamashiro
12:33	8,753	-501	7 HE rapid		Yamashiro
12:34	12,469	-565	4 HE		Ise
12:35	12,110	-549	4 HE		Ise
12:36	11,768	-533	4 HE		Ise
12:37	11,700	-266	4 HE		Ise
12:38	11,328	-531	3 HE	1 hit	Ise
12:39	10,914	-575	4 HE		Ise
12:40	10,524	-587	5 HE	1 hit	Ise
12:41	11,040	-286	20 AP		Tosa
12:42	10,981	-130	19 AP		Tosa

Cape Shoppeck Gunnery Logs

12:43	10,831	-359	14 AP		Tosa
12:44	10,630	-331	9 AP		Tosa
12:45	10,434	-318	9 AP	1 hit	Tosa
	Primary Total		661 shells	28 hits	356mm/52

## Gunnery log for Kinburn

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
11:10	18,966	-671	4 AP			Kaga
11:11	18,581	-363	4 AP			Kaga
11:12	18,165	-411	3 AP			Kaga
11:13	17,704	-461	2 AP			Kaga
11:14	17,210	-493	1 AP			Kaga
11:15	16,703	-521	3 AP			Kaga
11:16	16,153	-549	3 AP			Kaga
11:17	16,113	-37	4 AP			Kaga
11:18	15,834	-54	3 AP			Kaga
11:19	15,847	21	2 AP			Kaga
11:20	15,908	95	8 AP			Kaga
11:21	16,108	159	12 AP			Kaga
11:22	16,057	147	10 AP			Kaga
11:23	16,156	130	7 AP			Kaga
11:24	16,247	153	7 AP			Kaga
11:25	16,381	137	9 AP			Kaga
11:26	16,478	156	8 AP		1 hit	Kaga
11:27	16,591	113	26 AP rapid		1 hit	Kaga
11:28	16,559	253	16 AP rapid			Kaga
11:29	16,799	240	11 AP		2 hits	Kaga
11:30	17,017	261	7 AP			Kaga
11:31	17,265	248	10 AP		1 hit	Kaga
11:32	17,300	36	30 AP rapid		2 hits	Kaga
11:33	17,350	-2	6 AP			Kaga
11:34	17,349	12	6 AP			Kaga
11:35	17,347	27	9 AP			Kaga
11:36	17,496	148	8 AP		2 hits	Kaga
11:37	17,597	102	6 AP			Kaga
11:38	17,959	111	5 AP		1 hit	Kaga
11:39	18,132	119	13 AP rapid		1 hit	Kaga
11:40	17,048	-44	10 AP			Mutsu
11:41	17,260	-161	3 AP			Nagato
11:42	18,162	-121	2 AP			Nagato
11:43	18,148	-145	2 AP			Nagato
11:44	18,058	-170	3 AP			Nagato
11:45	17,930	-195	1 AP			Nagato
11:46	15,525	148	11 AP			Fuso
11:47	15,674	151	12 AP			Fuso
11:48	15,825	151	10 AP			Fuso
11:49	16,085	260	9 AP			Fuso
11:50	16,345	260	10 AP		1 hit	Fuso
11:51	16,654	291	8 AP			Fuso
11:52	16,946	293	8 AP		2 hits	Fuso
11:53	17,238	293	7 AP			Fuso



11:54	17,547	293	8 AP		Fuso
11:55	17,853	295	8 AP	1 hit	Fuso
11:56	18,147	295	18 AP rapid		Fuso
11:57	18,439	100	2 AP		Fuso
11:58	18,517	82	1 AP		Fuso
11:59	18,493	78	2 AP		Fuso
12:00	18,455	55	2 AP		Fuso
12:01	18,417	31	1 AP		Fuso
12:02	18,431	41	2 AP		Fuso
12:04	19,186	22	1 AP		Yamashiro
12:05	18,974	23	1 AP		Yamashiro
12:06	18,924	-1	1 AP		Yamashiro
12:07	18,848	-50	2 AP		Yamashiro
12:08	18,746	-76	1 AP		Yamashiro
12:09	18,620	-102	1 AP		Yamashiro
12:10	18,468	-126	2 AP		Yamashiro
12:11	18,291	-151	1 AP		Yamashiro
12:12	18,164	-176	2 AP		Yamashiro
12:13	16,798	-188	10 AP		Mutsu
12:14	16,841	-169	8 AP		Mutsu
12:15	16,928	-147	8 AP	2 hits	Mutsu
12:16	16,992	-126	8 AP rapid		Mutsu
12:17	17,076	-126	2 AP		Mutsu
12:18	17,025	-148	3 AP		Mutsu
12:19	16,980	-92	12 AP		Mutsu
12:20	16,953	-90	8 AP		Mutsu
12:21	16,905	-90	10 AP		Mutsu
12:22	16,438	-531	9 AP	3 hits	Mutsu
12:23	16,020	-526	29 AP rapid	3 hits	Mutsu
12:24	16,815	-979	1 HE		Yamashiro
12:25	15,895	-1,048	2 HE		Yamashiro
12:26	15,041	-1,077	4 HE		Yamashiro
12:27	14,176	-1,120	4 HE		Yamashiro
12:36	12,421	-314	11 AP		Tosa
12:37	12,221	-301	12 AP		Tosa
12:38	12,029	-295	13 AP	2 hits	Tosa
12:39	11,845	-288	14 AP		Tosa
12:40	11,621	-322	10 AP		Tosa
12:41	11,402	-315	16 AP	5 hits	Tosa
12:42	11,323	-165	22 AP rapid		Tosa
12:43	11,229	-171	12 AP		Tosa
12:44	11,168	-139	14 AP		Tosa
12:45	10,960	-344	10 AP		Tosa
	Primary Total		647 shells	30 hits	356mm/52

Combined Fleet  
Gunnery log for Kaga

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
11:05	19,538	-1,001	1 AP		Orel
11:06	18,548	-980	2 AP		Orel
11:07	17,620	-927	6 AP		Orel
11:08	16,753	-906	8 AP		Orel
11:09	15,866	-886	7 AP		Orel
11:10	14,959	-905	4 AP		Orel
11:11	14,340	-619	7 AP		Orel
11:12	13,802	-542	5 AP	1 hit	Orel
11:13	13,279	-523	3 AP		Orel
11:14	12,775	-504	5 AP		Orel
11:15	12,290	-485	7 AP	1 hit	Orel
11:16	11,824	-466	5 AP		Orel
11:17	12,086	269	4 AP		Orel
11:18	12,236	188	3 AP		Orel
11:19	12,468	236	2 AP		Orel
11:20	12,746	283	4 AP	2 hits	Orel
11:21	13,070	328	3 AP		Orel
11:22	13,358	289	7 AP	1 hit	Orel
11:23	13,628	293	5 AP	1 hit	Orel
11:24	13,922	296	7 AP		Orel
11:25	14,219	300	7 AP		Orel
11:26	14,519	300	5 AP		Orel
11:27	14,758	240	6 AP	1 hit	Orel
11:28	15,000	243	5 AP		Orel
11:29	15,245	247	7 AP		Orel
11:30	15,492	250	5 AP		Orel
11:31	15,742	250	6 AP		Orel
11:32	15,761	19	5 AP		Orel
11:33	15,774	19	5 AP		Orel
11:34	15,794	21	4 AP		Orel
11:35	15,814	21	5 AP	1 hit	Orel
11:36	15,835	21	3 AP	1 hit	Orel
11:37	15,826	-8	4 AP		Orel
11:38	15,822	-4	5 AP	1 hit	Orel
11:39	15,822	0	4 AP		Orel
11:40	15,826	4	4 AP		Orel
11:41	15,831	5	4 AP	2 hits	Orel
11:42	15,638	-192	5 AP rapid		Orel
11:43	15,462	-192	5 AP	1 hit	Orel
11:44	15,270	-192	6 AP rapid		Orel
11:45	15,078	-191	6 AP		Orel
11:46	14,887	-191	4 AP		Orel
11:47	14,768	-118	4 AP		Orel

11:48	14,637	-131	5 AP		0rel
11:49	14,506	-131	5 AP		0rel
11:50	14,375	-131	5 AP		0rel
11:51	14,244	-131	5 AP		0rel
11:52	14,152	-92	5 AP	1 hit	0rel
11:53	14,059	-92	5 AP	rapid	0rel
11:54	13,967	-92	4 HE	1 hit	0rel
11:55	13,875	-92	5 HE		0rel
11:56	13,783	-92	6 HE		0rel
11:57	13,691	-92	4 HE		0rel
11:58	13,599	-92	4 HE		0rel
11:59	13,507	-92	1 HE		0rel
12:00	13,415	-92	1 HE		0rel
12:02	13,988	681	1 HE		0rel
12:04	14,536	257	1 HE		0rel
12:08	14,778	-212	1 HE		0rel
	Primary Total		267 shells	15 hits	41cm/45

## Gunnery log for Tosa

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
11:19	12,038	156	3 AP		Slava
11:20	12,237	91	4 AP		Slava
11:21	12,358	158	3 AP		Slava
11:22	12,402	320	3 AP		Orel
11:23	12,663	266	9 AP		Orel
11:24	12,940	280	7 AP		Orel
11:25	13,236	298	7 AP	1 hit	Orel
11:26	13,556	302	6 AP	2 hits	Orel
11:27	13,810	256	9 AP		Orel
11:28	14,167	273	7 AP		Slava
11:29	14,448	282	7 AP		Slava
11:30	14,743	307	6 AP		Slava
11:31	15,065	322	7 AP		Slava
11:32	15,413	355	6 AP	1 hit	Slava
11:33	15,733	47	6 AP	1 hit	Slava
11:34	15,755	38	7 AP	1 hit	Slava
11:35	15,772	36	7 AP	1 hit	Slava
11:36	15,796	28	6 AP rapid		Slava
11:37	15,817	27	7 AP		Slava
11:38	15,822	-4	5 AP		Slava
11:39	15,822	0	3 AP		Slava
11:40	15,742	0	4 AP		Orel
11:41	15,745	0	3 AP		Orel
11:42	15,549	-196	3 AP	1 hit	Orel
11:43	15,369	-196	5 AP		Orel
11:44	15,173	-196	2 AP		Orel
11:45	14,978	-195	2 AP	1 hit	Orel
11:46	15,174	-191	3 AP		Slava
11:47	14,641	-533	3 AP	1 hit	Slava
11:48	14,104	-556	5 AP		Slava
11:49	13,532	-572	4 AP		Slava
11:50	12,960	-572	4 AP		Slava
11:51	12,388	-572	4 AP		Slava
11:52	12,542	156	3 AP	1 hit	Slava
11:53	12,458	-65	3 AP	1 hit	Slava
11:54	12,189	-245	5 AP rapid	1 hit	Slava
11:55	12,043	-129	4 AP	1 hit	Slava
11:56	11,942	-76	3 AP	1 hit	Slava
11:57	12,635	702	2 AP	1 hit	Slava
11:58	13,098	463	2 AP		Slava
11:59	13,669	425	4 AP		Slava
12:00	13,654	134	4 AP		Slava
12:01	13,824	157	3 AP	2 hits	Slava
12:02	14,382	562	3 AP rapid	1 hit	Slava

12:03	14,105	176	6 AP rapid	1 hit	Slava
12:04	14,292	168	3 AP		Slava
12:05	14,374	57	3 AP	2 hits	Slava
12:06	14,474	76	5 AP rapid	2 hits	Slava
12:07	14,595	97	3 AP	1 hit	Slava
12:08	14,710	121	4 AP rapid		Slava
12:09	15,210	500	2 HE		Slava
12:10	15,610	400	1 HE		Slava
12:11	16,043	433	1 HE	1 hit	Slava
12:12	16,204	167	2 AP	1 hit	Slava
12:13	16,363	162	3 AP rapid		Slava
12:14	16,546	190	2 AP		Slava
12:15	16,754	211	1 AP		Slava
12:16	16,975	227	2 AP		Slava
12:17	17,110	146	2 AP		Slava
12:18	17,259	155	2 AP		Slava
12:19	17,421	171	1 AP		Slava
12:20	17,596	179	1 AP		Slava
12:21	17,783	195	1 AP		Slava
12:22	18,188	410	1 HE		Slava
12:24	18,985	415	1 HE		Slava
12:25	13,120	-73	2 AP		Tsessarevitch
12:26	13,081	-56	2 AP		Tsessarevitch
12:27	12,859	-240	3 AP		Tsessarevitch
12:28	12,653	-223	2 AP	1 hit	Tsessarevitch
12:29	12,431	-221	2 AP		Tsessarevitch
12:30	12,211	-219	2 HE		Tsessarevitch
12:31	11,991	-219	2 HE		Tsessarevitch
12:32	11,919	-72	4 HE	1 hit	Tsessarevitch
12:33	11,844	-75	4 HE rapid		Tsessarevitch
12:34	11,767	-77	4 HE		Tsessarevitch
12:35	11,688	-78	3 HE		Tsessarevitch
12:36	11,609	-80	2 HE	1 hit	Tsessarevitch
12:37	11,531	-76	1 HE rapid		Tsessarevitch
12:38	11,286	-182	1 HE		Navarin
12:39	11,106	-179	1 HE		Navarin
12:44	10,128	-184	1 HE		Navarin
	Primary Total	286 shells	30 hits		41cm/45

## Gunnery log for Nagato

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
11:10	15,986	-936	7 AP		Orel
11:11	15,038	-946	6 AP		Orel
11:12	14,117	-548	9 AP		Orel
11:13	13,602	-524	7 AP		Orel
11:14	13,544	-554	4 AP		Slava
11:15	13,008	-530	4 AP		Slava
11:16	12,540	-506	6 AP	1 hit	Slava
11:17	12,079	-496	4 AP	1 hit	Slava
11:18	11,674	-416	5 AP		Slava
11:19	11,272	-402	3 AP		Slava
11:20	11,543	257	1 AP		Slava
11:21	11,860	190	2 AP		Slava
11:22	12,080	223	1 AP		Slava
11:23	12,416	387	1 AP		Slava
11:24	12,708	295	5 AP		Slava
11:25	13,020	322	5 AP	1 hit	Slava
11:26	13,346	328	6 AP		Slava
11:27	13,690	351	4 AP	1 hit	Slava
11:28	13,985	295	4 AP	1 hit	Slava
11:29	14,277	294	4 AP		Slava
11:30	14,557	290	4 AP	1 hit	Slava
11:31	14,844	287	4 AP rapid		Slava
11:32	15,139	301	4 AP		Slava
11:33	15,417	287	4 AP		Slava
11:34	15,656	26	4 AP		Slava
11:35	15,680	26	3 AP	1 hit	Slava
11:36	15,707	24	3 AP	1 hit	Slava
11:37	15,734	26	5 AP rapid	1 hit	Slava
11:38	15,740	-2	5 AP rapid	1 hit	Slava
11:39	15,740	0	6 AP rapid	1 hit	Slava
11:40	15,742	0	5 AP	1 hit	Slava
11:41	15,745	0	5 AP		Slava
11:42	15,745	0	1 AP		Slava
11:43	15,662	-196	2 AP		Slava
11:44	15,466	-196	1 AP		Slava
11:45	15,271	-196	1 AP		Slava
11:46	15,462	-192	2 AP		Tsessarevitch
11:47	14,929	-533	1 AP		Tsessarevitch
11:48	14,412	-517	1 AP	1 hit	Tsessarevitch
11:49	13,879	-533	2 AP		Tsessarevitch
11:50	13,306	-573	2 AP		Tsessarevitch
11:51	12,734	-573	1 AP		Tsessarevitch
11:53	12,800	-49	3 AP		Tsessarevitch
Primary Total			157 shells	13 hits	41cm/45



## Gunnery log for Mutsu

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
11:09	18,099	-1,203	1 AP		Orel
11:10	16,971	-1,125	2 AP		Orel
11:11	15,827	-1,113	2 AP		Orel
11:12	15,114	-711	4 AP		Orel
11:13	14,460	-616	7 AP	1 hit	Orel
11:14	13,855	-533	5 AP		Orel
11:15	13,290	-512	6 AP		Orel
11:16	12,759	-501	3 AP		Orel
11:17	12,306	-452	5 AP		Orel
11:18	12,109	-197	7 AP	1 hit	Orel
11:19	12,050	-59	3 AP	1 hit	Orel
11:20	12,113	64	9 AP	1 hit	Orel
11:21	12,270	159	8 AP	2 hits	Orel
11:22	12,540	270	8 AP		Orel
11:23	12,814	274	6 AP		Orel
11:24	13,092	279	5 AP	1 hit	Orel
11:25	13,367	275	6 AP	2 hits	Orel
11:26	13,646	279	5 AP	2 hits	Orel
11:27	13,867	222	7 AP	2 hits	Orel
11:28	14,238	233	6 AP		Tsessarevitch
11:29	14,467	232	7 AP		Tsessarevitch
11:30	14,691	218	7 AP		Tsessarevitch
11:31	14,905	217	7 AP		Tsessarevitch
11:32	15,064	169	8 AP	1 hit	Tsessarevitch
11:33	15,199	143	5 AP	1 hit	Tsessarevitch
11:34	15,306	108	6 AP	1 hit	Tsessarevitch
11:35	15,394	96	7 AP	1 hit	Tsessarevitch
11:36	15,472	79	5 AP	1 hit	Tsessarevitch
11:37	15,532	64	8 AP		Tsessarevitch
11:38	15,588	58	6 AP		Tsessarevitch
11:39	15,627	23	5 AP	1 hit	Tsessarevitch
11:40	15,650	23	6 AP		Tsessarevitch
11:41	15,665	14	6 AP	1 hit	Tsessarevitch
11:42	15,675	10	9 AP	2 hits	Tsessarevitch
11:43	15,693	14	11 AP rapid	2 hits	Tsessarevitch
11:44	15,720	19	7 AP	2 hits	Tsessarevitch
11:45	15,555	-177	2 AP		Tsessarevitch
11:46	15,751	-192	3 AP		Suvorow
11:47	15,563	-188	6 HE		Suvorow
11:48	15,492	-69	5 HE		Suvorow
11:49	15,434	-58	7 HE		Suvorow
11:50	15,388	-44	7 HE		Suvorow
11:51	15,338	-66	8 HE		Suvorow
11:52	15,251	-87	6 HE		Suvorow



11:53	15,134	-115	6 HE		Suvorow
11:54	14,998	-134	5 HE		Suvorow
11:55	14,688	-89	6 HE		Suvorow
11:56	14,491	-124	6 HE		Suvorow
11:57	14,276	-157	5 HE	1 hit	Suvorow
11:58	14,116	-142	7 HE		Suvorow
11:59	14,023	-138	8 HE	1 hit	Suvorow
12:00	13,930	-120	8 HE		Suvorow
12:01	13,837	-101	6 HE	2 hits	Suvorow
12:02	13,771	-83	8 HE		Suvorow
12:03	13,742	-65	6 HE	1 hit	Suvorow
12:04	13,677	-65	7 HE		Suvorow
12:05	14,003	381	5 HE		Suvorow
12:06	14,384	372	6 HE	1 hit	Suvorow
12:07	15,432	1,050	1 HE		Suvorow
12:08	16,114	704	4 HE		Suvorow
12:09	16,812	350	6 HE		Suvorow
12:10	17,484	508	3 HE		Suvorow
12:11	18,383	503	3 HE		Suvorow
12:12	18,965	538	2 HE		Suvorow
12:13	19,250	571	2 HE		Suvorow
12:45	5,053	-377	7 HE		Navarin
	Primary Total		376 shells	32 hits	41cm/45

## Gunnery log for Hyuga

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
11:08	19,478	-1,191	1 AP		Orel
11:10	17,716	-1,164	1 AP		Slava
11:11	16,640	-640	9 AP		Slava
11:12	16,082	-576	11 AP	1 hit	Slava
11:13	15,295	-765	3 AP rapid		Slava
11:14	14,545	-738	2 AP		Slava
11:15	13,553	-472	13 AP		Slava
11:16	13,076	-471	10 AP		Slava
11:17	12,634	-466	9 AP	2 hits	Slava
11:18	12,226	-408	11 AP	1 hit	Slava
11:19	11,817	-409	14 AP	3 hits	Slava
11:20	11,408	-399	18 AP	4 hits	Slava
11:21	11,000	-390	12 AP	2 hits	Slava
11:22	10,602	197	14 AP	2 hits	Slava
11:23	10,968	435	2 AP	1 hit	Slava
11:24	11,324	367	4 AP rapid		Slava
11:28	13,100	259	7 AP		Slava
11:29	13,523	257	7 AP		Slava
11:30	13,821	274	7 AP	1 hit	Slava
	Primary Total		155 shells	17 hits	36cm/45

## Gunnery log for Ise

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
11:11	18,822	-1,129	1 AP			Tsessarevitch
11:12	17,708	-1,091	2 AP			Tsessarevitch
11:13	16,591	-1,049	2 AP			Tsessarevitch
11:14	15,569	-905	1 AP			Tsessarevitch
11:15	14,771	-735	4 AP			Tsessarevitch
11:16	14,067	-621	14 AP			Tsessarevitch
11:17	13,221	-392	16 AP		2 hits	Tsessarevitch
11:18	12,847	-375	20 AP rapid		2 hits	Tsessarevitch
11:19	12,450	-396	18 AP rapid		3 hits	Tsessarevitch
11:20	11,992	-377	16 AP rapid		2 hits	Tsessarevitch
11:21	11,594	-398	19 AP rapid		5 hits	Tsessarevitch
11:22	11,166	-403	20 AP		3 hits	Tsessarevitch
11:23	10,824	-328	23 AP rapid		7 hits	Tsessarevitch
11:24	10,745	429	3 AP		1 hit	Tsessarevitch
11:25	11,041	396	5 AP			Tsessarevitch
11:26	11,471	437	3 AP		1 hit	Tsessarevitch
11:27	11,945	473	6 AP		1 hit	Tsessarevitch
11:28	12,568	425	5 AP			Suvorow
11:29	12,876	309	17 AP		1 hit	Suvorow
11:30	13,196	278	21 AP rapid		2 hits	Suvorow
11:31	13,483	288	16 AP		2 hits	Suvorow
11:32	13,667	185	20 AP rapid		4 hits	Suvorow
11:33	13,852	185	14 AP			Suvorow
11:34	14,047	195	13 AP		1 hit	Suvorow
11:35	14,241	195	13 AP		1 hit	Suvorow
11:36	14,436	195	14 AP rapid		1 hit	Suvorow
11:37	14,497	61	18 AP		2 hits	Suvorow
11:38	14,559	63	11 AP		4 hits	Suvorow
11:39	14,622	64	13 AP		1 hit	Suvorow
11:40	14,687	67	13 HE		3 hits	Suvorow
11:41	14,734	46	11 HE		2 hits	Suvorow
11:42	14,793	59	11 HE		2 hits	Suvorow
11:43	14,859	62	15 HE		1 hit	Suvorow
11:44	14,923	66	22 HE rapid		2 hits	Suvorow
11:45	14,989	69	16 HE		2 hits	Suvorow
11:46	16,083	165	10 HE			Navarin
11:47	16,364	281	6 HE			Navarin
11:48	16,654	290	7 HE			Navarin
11:49	16,935	281	6 HE			Navarin
11:50	17,225	290	6 HE			Navarin
11:51	17,507	281	7 HE		1 hit	Navarin
11:52	17,775	268	7 HE			Navarin
11:53	18,013	238	5 HE			Navarin
11:54	18,242	44	8 HE		1 hit	Navarin

11:55	18,310	44	6	HE		Navarin
11:56	18,354	46	9	HE		Navarin
11:57	18,385	31	9	HE	1 hit	Navarin
11:58	18,393	8	16	HE	rapid	Navarin
11:59	18,379	-15	7	HE		Navarin
12:00	18,341	-38	4	HE		Navarin
12:01	18,303	-37	5	HE		Navarin
12:02	18,408	-192	5	HE		Navarin
12:03	18,357	-51	9	HE		Navarin
12:04	18,356	-1	7	HE	2 hits	Navarin
12:05	18,331	-26	13	HE	rapid	Navarin
12:06	18,280	-51	5	HE		Navarin
12:07	18,205	-75	4	HE		Navarin
12:08	18,104	-100	6	HE		Navarin
12:09	17,979	-125	8	HE		Navarin
12:10	17,829	-150	8	HE		Navarin
12:11	17,656	-173	5	HE		Navarin
12:12	17,530	-125	7	HE		Navarin
12:13	17,548	513	5	HE	1 hit	Navarin
12:14	17,543	-30	5	HE		Navarin
12:15	17,612	70	8	HE	1 hit	Navarin
12:16	17,657	45	4	HE		Navarin
12:17	17,694	37	6	HE		Navarin
12:18	17,708	14	8	HE		Navarin
12:19	17,700	-8	7	HE	1 hit	Navarin
12:20	17,671	-30	7	HE		Navarin
12:21	17,619	-51	4	HE		Navarin
12:22	16,977	-635	9	HE		Navarin
12:23	16,410	-595	12	HE		Navarin
12:24	15,849	-557	9	HE		Navarin
12:25	15,331	-510	14	HE		Navarin
12:26	14,859	-461	14	HE	1 hit	Navarin
12:27	14,432	-422	14	HE	rapid	Navarin
12:28	14,016	-410	13	HE	1 hit	Navarin
12:29	13,609	-399	11	HE	rapid	Navarin
12:30	13,214	-392	13	HE		Navarin
12:31	12,833	-377	18	HE		Navarin
12:32	12,450	-378	19	HE		Navarin
12:33	12,054	-389	21	HE		Navarin
12:34	11,675	-373	20	HE		Navarin
12:35	11,312	-350	15	HE		Navarin
12:36	10,968	-333	12	HE		Navarin
12:37	10,901	-66	3	HE		Navarin
12:38	10,531	-331	14	HE		Navarin
12:39	10,119	-376	12	HE		Navarin
12:40	9,731	-383	17	HE		Navarin
12:41	9,334	-391	11	HE		Navarin
12:42	8,981	-350	17	HE	2 hits	Navarin

12:43	8,671	-307	14 HE rapid	1 hit	Navarin
12:44	8,388	-279	24 HE	2 hits	Navarin
12:45	8,133	-248	19 HE	2 hits	Navarin
	Primary	Total	1030 shells	75 hits	36cm/45

## Gunnery log for Yamashiro

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
11:10	19,534	-1,177	1 AP		Orel
11:11	18,378	-1,136	1 AP		Orel
11:12	17,340	-1,011	1 AP		Orel
11:13	16,363	-949	2 AP		Orel
11:14	16,830	-1,062	1 AP		Suvorow
11:15	15,855	-970	2 AP		Suvorow
11:16	14,929	-870	5 AP	1 hit	Suvorow
11:17	13,844	-529	12 AP		Suvorow
11:18	13,372	-492	15 AP	3 hits	Suvorow
11:19	12,922	-487	20 AP rapid	2 hits	Suvorow
11:20	12,486	-414	20 AP rapid	3 hits	Suvorow
11:21	12,040	-393	19 AP rapid	3 hits	Suvorow
11:22	11,645	-394	17 AP rapid	2 hits	Suvorow
11:23	11,265	-370	20 AP rapid	1 hit	Suvorow
11:24	10,930	-360	21 AP rapid	6 hits	Suvorow
11:25	10,692	-265	23 AP rapid	2 hits	Suvorow
11:26	10,824	430	5 AP rapid	1 hit	Suvorow
11:27	11,307	359	7 AP rapid		Suvorow
11:28	11,636	388	7 AP	1 hit	Borodino
11:29	12,062	431	3 AP		Borodino
11:30	12,391	329	16 AP		Borodino
11:31	12,732	288	12 AP	1 hit	Borodino
11:32	13,064	336	14 AP	3 hits	Borodino
11:33	13,291	215	17 AP rapid	4 hits	Borodino
11:34	13,724	422	14 AP	4 hits	Borodino
11:35	14,158	422	17 AP rapid	1 hit	Borodino
11:36	14,581	423	13 AP	3 hits	Borodino
11:37	14,991	410	23 AP rapid		Borodino
11:38	14,938	-52	13 AP	2 hits	Borodino
11:39	14,653	38	11 AP		Orel
11:40	14,675	23	12 HE	2 hits	Orel
11:41	14,585	31	13 HE	1 hit	Slava
11:42	14,629	44	24 HE rapid	1 hit	Slava
11:43	14,571	-168	15 HE rapid		Slava
11:44	14,404	-165	17 HE		Slava
11:45	14,241	-161	18 HE	2 hits	Slava
11:46	15,665	242	14 HE		Ismail
11:47	15,886	225	13 HE		Ismail
11:48	16,207	324	6 HE		Ismail
11:49	16,529	322	5 HE		Ismail
11:50	16,869	341	6 HE		Ismail
11:51	17,190	321	8 HE		Ismail
11:52	17,499	310	4 HE		Ismail
11:53	17,795	296	7 HE		Ismail

11:54	18,078	283	3	HE		Ismail
11:55	18,347	269	6	HE		Ismail
11:56	18,455	109	4	HE		Ismail
11:57	18,524	69	3	HE		Ismail
11:58	18,488	24	4	HE		Ismail
11:59	18,382	23	5	HE		Ismail
12:00	18,382	23	3	HE		Ismail
12:01	18,360	-20	6	HE		Ismail
12:02	18,375	15	1	HE		Ismail
12:03	18,276	83	2	HE		Ismail
12:04	18,395	44	3	HE	1 hit	Ismail
12:05	18,369	20	8	HE	rapid	Ismail
12:06	18,319	-3	3	HE		Ismail
12:07	18,243	-51	5	HE		Ismail
12:08	18,143	-75	4	HE		Ismail
12:09	18,018	-100	5	HE	1 hit	Ismail
12:10	17,868	-125	5	HE		Ismail
12:11	17,695	-148	7	HE		Ismail
12:12	17,569	-173	5	HE		Ismail
12:13	17,489	-173	5	HE		Ismail
12:14	17,492	-150	5	HE	1 hit	Ismail
12:15	17,651	-174	7	HE		Ismail
12:16	17,673	-151	8	HE		Ismail
12:17	17,693	-174	6	HE		Ismail
12:18	17,688	-120	4	HE		Ismail
12:19	17,680	-120	6	HE		Ismail
12:20	17,650	-120	7	HE	1 hit	Ismail
12:21	17,598	-117	15	HE	rapid	Ismail
12:22	17,128	-537	4	HE		Ismail
12:23	16,965	-344	5	HE		Ismail
12:24	16,050	-979	7	HE		Ismail
12:25	15,130	-1,048	1	HE		Ismail
12:26	14,276	-1,076	2	HE		Ismail
12:27	13,412	-1,118	2	HE		Ismail
12:28	12,506	-1,160	2	HE		Ismail
12:29	11,563	-1,193	3	HE		Ismail
12:30	8,910	-962	3	HE		Tsessarevitch
12:31	7,921	-985	3	HE	1 hit	Tsessarevitch
12:32	7,523	-394	17	HE	1 hit	Tsessarevitch
12:33	7,266	-248	14	HE	4 hits	Tsessarevitch
12:34	7,024	-236	11	HE	3 hits	Tsessarevitch
12:35	6,794	-221	15	HE	4 hits	Tsessarevitch
12:36	6,587	-194	19	HE	5 hits	Tsessarevitch
12:37	6,497	-79	22	HE	7 hits	Tsessarevitch
12:38	7,700	-227	20	HE	1 hit	Ismail
12:39	7,842	-48	4	HE		Ismail
12:40	8,008	-155	4	HE		Ismail
12:41	8,089	-273	3	HE		Ismail

## Cape Shoppeck Gunnery Logs

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12:42	7,912	-376	7 HE	1 hit	Ismail
12:43	7,765	-355	6 HE		Ismail
12:44	7,660	-299	8 HE		Ismail
12:45	7,612	-242	2 HE		Ismail
	Primary Total		843 shells	80 hits	36cm/45



## Gunnery log for Fuso

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
11:11	18,319	-1,073	1 AP			Orel
11:12	17,371	-925	1 AP			Orel
11:13	17,049	-849	2 AP			Orel
11:15	17,116	-934	2 AP			Borodino
11:16	16,058	-862	2 AP			Borodino
11:17	15,360	-697	3 AP			Borodino
11:18	14,700	-637	15 AP		1 hit	Borodino
11:19	14,086	-552	17 AP			Borodino
11:20	13,505	-522	17 AP		1 hit	Borodino
11:21	13,001	-453	15 AP		2 hits	Borodino
11:22	12,530	-452	23 AP rapid		6 hits	Borodino
11:23	12,172	-357	18 AP		3 hits	Borodino
11:24	11,408	-352	18 AP			Borodino
11:25	11,083	-350	17 AP		3 hits	Borodino
11:26	10,748	-232	18 AP rapid		3 hits	Borodino
11:27	10,561	446	6 AP rapid		1 hit	Borodino
11:28	11,184	375	7 AP rapid		3 hits	Borodino
11:29	11,593	417	8 AP rapid			Borodino
11:30	12,043	457	5 AP			Borodino
11:31	12,394	295	16 AP		5 hits	Borodino
11:32	12,726	333	18 AP rapid		7 hits	Borodino
11:33	13,085	362	12 AP		1 hit	Borodino
11:34	13,528	433	20 AP rapid		3 hits	Borodino
11:35	13,961	423	18 AP rapid		2 hits	Borodino
11:36	14,394	423	14 AP			Borodino
11:37	14,801	408	12 AP		1 hit	Borodino
11:38	14,869	68	17 AP rapid		3 hits	Borodino
11:39	14,606	35	17 AP			Slava
11:40	14,628	23	13 AP		1 hit	Slava
11:41	14,652	25	18 HE rapid		5 hits	Slava
11:42	14,686	35	15 HE rapid			Slava
11:43	14,629	-166	14 HE		1 hit	Slava
11:44	14,452	-175	16 HE			Slava
11:45	14,266	-184	16 HE		2 hits	Slava
11:46	15,525	148	13 HE			Kinburn
11:47	15,674	151	12 HE			Kinburn
11:48	15,825	151	11 HE			Kinburn
11:49	16,085	260	9 HE			Kinburn
11:50	16,345	260	7 HE			Kinburn
11:51	16,654	291	6 HE			Kinburn
11:52	16,946	293	6 HE		1 hit	Kinburn
11:53	17,238	293	11 HE rapid		1 hit	Kinburn
11:54	17,547	293	6 HE			Kinburn
11:55	17,853	295	5 HE			Kinburn

11:56	18,147	295	5	HE		Kinburn
11:57	18,439	100	4	HE		Kinburn
11:58	18,517	82	4	HE	1 hit	Kinburn
11:59	18,493	78	8	HE	3 hits	Kinburn
12:00	18,455	55	7	HE		Kinburn
12:01	18,417	31	9	HE		Kinburn
12:02	18,431	41	2	HE		Kinburn
12:03	13,753	456	15	HE		Orel
12:04	14,233	457	17	HE	1 hit	Orel
12:05	14,615	405	21	HE	rapid 4 hits	Orel
12:06	14,997	394	10	HE	2 hits	Orel
12:07	15,251	257	22	HE	rapid 6 hits	Orel
12:08	15,517	271	20	HE	rapid	Orel
12:09	15,733	225	1	HE		Orel
12:10	15,964	242	11	HE	1 hit	Orel
12:11	16,209	250	18	HE	rapid 2 hits	Orel
12:12	16,485	267	9	HE		Orel
12:13	16,793	283	12	HE		Orel
12:14	17,097	309	11	HE		Orel
12:15	17,453	306	8	HE		Orel
12:16	17,785	341	8	HE	1 hit	Orel
12:17	18,149	328	17	HE	rapid	Orel
12:18	18,504	336	5	HE		Orel
12:19	18,869	350	5	HE		Orel
12:20	19,245	357	5	HE	1 hit	Orel
12:22	14,710	-934	4	HE		Tsessarevitch
12:23	14,378	-197	16	HE	1 hit	Tsessarevitch
12:24	13,437	-807	5	HE		Tsessarevitch
12:25	12,528	-907	2	HE		Tsessarevitch
12:26	11,647	-911	3	HE	1 hit	Tsessarevitch
12:27	10,758	-918	4	HE	rapid	Tsessarevitch
12:28	9,866	-919	4	HE		Tsessarevitch
12:29	8,920	-940	3	HE	1 hit	Tsessarevitch
12:30	8,835	-975	4	HE		Navarin
12:31	7,832	-995	4	HE		Navarin
12:32	7,319	-504	12	HE	3 hits	Navarin
12:33	6,991	-321	12	HE	2 hits	Navarin
12:34	6,796	-186	12	HE	2 hits	Navarin
12:35	6,487	-298	10	HE	2 hits	Navarin
12:36	6,203	-270	12	HE	1 hit	Navarin
12:37	6,066	-120	10	HE	1 hit	Navarin
12:38	6,013	-42	19	HE	3 hits	Navarin
12:39	6,016	11	5	HE		Navarin
12:40	6,065	57	8	HE	2 hits	Navarin
12:41	6,962	-110	2	HE		Ismail
12:42	6,861	-284	13	HE	2 hits	Ismail
12:43	6,818	-324	19	HE	2 hits	Ismail
12:44	6,756	-248	6	HE	1 hit	Ismail

12:45	6,769	-177	3 HE	Ismail
	Primary Total	963 shells	102 hits	36cm/45