

Gunnery Logs Nov 8 1911 Sunderland Suprise

Home Fleet, Collingwood

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:54	16,478	-663	1 HE		Blucher
08:56	15,090	-1,158	1 HE		Nassau
08:58	13,853	-567	2 HE		Nassau
08:59	13,293	-548	1 HE		Nassau
09:00	12,872	-24	3 HE		Nassau
09:01	12,876	-1	6 HE		Nassau
09:02	12,923	46	6 HE		Nassau
09:03	12,964	42	7 HE		Nassau
09:04	13,006	42	7 AP		Nassau
09:05	12,960	-79	6 AP		Nassau
09:06	12,997	-95	8 AP		Nassau
09:07	12,886	-111	6 AP		Nassau
09:08	12,775	-111	8 AP		Nassau
09:09	12,650	-126	7 AP		Nassau
09:10	12,524	-126	7 AP		Nassau
09:11	12,477	41	7 AP		Nassau
09:12	12,574	98	5 AP		Nassau
09:13	12,659	85	8 AP		Nassau
09:14	12,745	87	6 AP		Nassau
09:15	12,832	87	7 AP		Nassau
09:16	12,807	-81	6 AP	1 hit	Nassau
09:17	12,552	-80	7 AP		Nassau
09:18	12,472	-80	7 AP		Nassau
09:19	12,392	-80	8 AP		Nassau
09:20	12,312	-79	7 AP		Nassau
09:21	12,233	-79	6 AP		Nassau
09:22	12,154	-79	9 AP		Nassau
09:23	12,074	-79	6 AP		Nassau
09:24	11,995	-79	8 AP		Nassau
09:25	11,917	-79	7 AP		Nassau
09:26	11,838	-79	8 AP		Nassau
09:27	11,759	-79	8 AP		Nassau
09:28	11,681	-79	8 AP		Nassau
09:29	11,615	-65	9 AP		Nassau
09:30	11,550	-65	8 AP		Nassau
09:31	11,484	-65	9 SAP		Nassau
09:32	11,124	-341	1 SAP		Nassau
09:33	11,516	94	2 SAP		Nassau
09:34	11,638	117	8 SAP		Nassau
09:35	11,726	110	8 SAP		Nassau
09:36	11,851	120	8 SAP		Nassau
09:37	11,970	120	8 SAP		Nassau
09:38	12,096	127	8 SAP	1 hit	Nassau
09:39	12,214	118	8 SAP	1 hit	Nassau
09:40	12,231	125	8 SAP		Nassau
09:41	12,370	141	9 SAP		Nassau
09:42	12,510	141	8 SAP		Nassau
09:43	12,653	143	8 SAP		Nassau
09:44	12,798	146	7 SAP		Nassau
09:45	12,944	149	7 SAP		Nassau
09:46	13,093	149	7 SAP		Nassau
09:47	12,922	-170	8 SAP		Nassau
09:48	12,780	-153	8 SAP		Nassau
09:49	12,629	-149	8 SAP		Nassau
09:50	12,480	-149	8 SAP		Nassau
09:51	12,333	-146	7 SAP		Nassau
09:52	12,188	-143	8 SAP		Nassau
09:53	12,045	-143	7 SAP		Nassau
09:54	11,903	-141	7 SAP		Nassau
09:55	11,762	-141	7 SAP		Nassau
09:56	11,623	-139	7 SAP		Nassau
09:57	11,484	-138	6 SAP		Nassau
09:58	11,316	-153	8 SAP		Nassau
09:59	11,164	-153	7 SAP		Nassau
10:00	11,012	-151	9 SAP		Nassau
10:01	10,860	-151	7 SAP		Nassau

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Home Fleet, Collingwood (continued)

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
10:02	10,724	-134	7 HE			Nassau
10:03	10,606	-119	9 HE		1 hit	Nassau
10:04	10,505	-100	9 HE			Nassau
10:05	10,423	-81	8 HE			Nassau
10:06	10,363	-56	8 HE		1 hit	Nassau
10:07	10,321	-39	8 HE		1 hit	Nassau
10:08	10,296	-23	8 HE			Nassau
10:09	10,294	0	7 HE		1 hit	Nassau
10:10	10,319	29	8 HE			Nassau
10:11	10,372	59	6 HE			Nassau
10:12	10,455	86	8 HE			Nassau
10:13	10,571	119	6 HE			Nassau
10:14	10,698	131	7 HE			Nassau
10:15	10,836	143	3 HE			Nassau
10:16	10,985	155	4 HE		1 hit	Nassau
10:17	11,158	182	3 HE			Nassau
10:18	11,359	210	3 HE			Nassau
10:19	11,573	217	4 HE			Nassau
10:20	11,799	230	3 HE			Nassau
10:21	12,036	242	4 HE			Nassau
10:22	12,044	15	3 HE			Nassau
10:23	12,065	30	6 HE	rapid	1 hit	Nassau
10:24	12,103	45	6 HE	rapid		Nassau
10:25	12,156	60	2 HE			Nassau
10:26	12,225	75	2 HE			Nassau
10:27	12,373	155	2 HE			Nassau
12in/50	Primary	Total	591 shells		9 hits	1.5%

Home Fleet, Collingwood, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:45	10,839	-1,320	2 HE		Nurnberg
08:46	9,527	-1,304	1 HE		Nurnberg
08:47	8,243	-1,266	2 HE		Nurnberg
08:48	7,000	-1,210	2 HE		Nurnberg
08:49	5,802	-1,142	19 HE		Nurnberg
08:50	4,732	-976	24 HE		Nurnberg
08:51	3,898	-673	22 HE		Nurnberg
08:52	3,817	-77	8 AP		Nurnberg
08:53	4,654	844	19 AP		Nurnberg
08:54	5,555	902	2 AP		Nurnberg
08:56	6,512	326	2 AP		Nurnberg
08:57	6,106	-405	22 AP		Nurnberg
08:58	6,130	30	2 AP		Nurnberg
08:59	6,094	14	2 AP		Nurnberg
09:00	6,203	646	1 AP		Nurnberg
09:01	6,659	488	1 AP		Nurnberg
09:02	7,203	544	2 AP		Nurnberg
09:03	7,822	619	1 AP		Nurnberg
09:04	8,472	654	1 AP		Nurnberg
09:06	9,788	606	1 AP		Nurnberg
09:08	10,098	179	1 AP		Nurnberg
09:09	10,257	159	1 AP		Nurnberg
09:10	10,416	159	1 AP		Nurnberg
09:13	11,346	352	1 AP		Nurnberg
09:27	11,156	-132	1 HE		Stuttgart
09:31	10,900	596	1 HE		Augsburg
09:52	11,332	-260	1 HE		Augsburg
09:53	11,075	-254	1 HE		Augsburg
09:54	10,830	-241	1 HE		Augsburg
09:55	10,597	-228	1 HE		Augsburg
09:56	10,377	-215	1 HE		Augsburg
09:59	9,771	-168	1 HE		Kolberg
10:00	9,814	-277	1 HE		Stuttgart
10:01	9,542	-263	1 HE	1 hit	Stuttgart
10:02	9,299	-231	1 AP		Stuttgart
10:03	9,088	-195	5 AP		Stuttgart
10:04	8,918	-155	2 AP		Stuttgart
10:05	8,793	-100	4 AP		Stuttgart
10:06	8,727	-47	5 AP		Stuttgart
10:07	9,269	544	1 AP		Stuttgart
4in/50	Secondary	Total	168 shells	1 hit	0.6%

Home Fleet, St. Vincent

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:54	16,507	-687	1 HE		Blucher
08:58	14,452	-467	1 HE		Nassau
08:59	13,960	-481	1 HE		Nassau
09:00	13,456	-492	2 HE		Nassau
09:01	13,006	-440	2 HE		Nassau
09:02	13,023	44	1 HE		Nassau
09:03	12,939	54	8 HE		Westfalen
09:04	12,980	48	7 AP		Westfalen
09:05	13,030	50	8 AP		Westfalen
09:06	13,074	44	5 AP		Westfalen
09:07	12,991	-111	5 AP		Westfalen
09:08	12,881	-111	7 AP		Westfalen
09:09	12,754	-126	6 AP		Westfalen
09:10	12,629	-126	7 AP		Westfalen
09:11	12,503	-126	7 AP		Westfalen
09:12	12,482	98	6 AP		Westfalen
09:13	12,567	85	8 AP		Westfalen
09:14	12,653	85	5 AP		Westfalen
09:15	12,740	87	7 AP		Westfalen
09:16	12,827	87	7 AP	1 hit	Westfalen
09:17	12,746	-81	8 AP		Westfalen
09:18	12,665	-81	8 AP		Westfalen
09:19	12,569	-95	6 AP		Westfalen
09:20	12,474	-95	8 AP		Westfalen
09:21	12,379	-94	7 AP		Westfalen
09:22	12,285	-94	7 AP		Westfalen
09:23	12,177	-108	6 AP		Westfalen
09:24	12,070	-106	7 AP		Westfalen
09:25	11,964	-106	8 AP		Westfalen
09:26	11,887	-92	8 AP		Westfalen
09:27	11,519	-79	7 AP		Westfalen
09:28	11,441	-79	5 AP		Westfalen
09:29	11,375	-65	5 AP		Westfalen
09:30	11,310	-65	6 AP	1 hit	Westfalen
09:31	11,245	-65	5 AP	1 hit	Westfalen
09:32	11,347	-223	2 AP		Nassau
09:33	11,628	87	5 AP		Nassau
09:34	11,758	96	6 SAP		Nassau
09:35	11,651	102	4 SAP		Westfalen
09:36	11,776	112	6 SAP		Westfalen
09:37	11,896	120	6 SAP		Westfalen
09:38	12,022	127	6 SAP	1 hit	Westfalen
09:39	12,140	118	4 SAP		Westfalen
09:40	12,251	111	6 SAP		Westfalen
09:41	12,366	116	6 SAP		Westfalen
09:42	12,559	127	5 SAP		Westfalen
09:43	12,718	138	2 SAP		Westfalen
09:44	12,880	151	1 SAP		Westfalen
09:45	13,032	154	1 SAP	1 hit	Westfalen
09:46	13,186	154	1 SAP rapid		Westfalen
09:49	13,545	322	1 AP		Nassau
12in/50 Primary Total			264 shells	5 hits	1.9%

Home Fleet, St. Vincent, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:45	11,295	-1,328	2 HE		Nurnberg
08:46	9,974	-1,312	1 HE		Nurnberg
08:47	8,676	-1,286	2 HE		Nurnberg
08:48	7,412	-1,245	1 HE		Nurnberg
08:49	6,179	-1,185	16 HE		Nurnberg
08:50	5,049	-1,063	18 HE		Nurnberg
08:51	4,108	-801	28 HE	1 hit	Nurnberg
08:52	3,369	-63	8 AP		Nurnberg
08:53	4,217	856	24 AP		Nurnberg
08:54	5,106	897	1 AP		Nurnberg
08:55	6,099	994	1 AP		Nurnberg
08:56	6,708	320	1 AP		Nurnberg
08:57	6,298	-353	12 AP		Nurnberg
08:58	6,341	45	2 AP		Nurnberg
08:59	6,293	2	14 AP		Nurnberg
09:00	6,251	-32	14 AP		Nurnberg
09:01	6,202	-41	15 AP		Nurnberg
09:03	7,362	562	2 AP		Nurnberg
09:04	8,017	626	1 AP		Nurnberg
09:06	9,367	692	1 AP		Nurnberg
09:07	9,548	130	1 AP		Nurnberg
09:08	9,723	176	1 AP		Nurnberg
09:11	10,192	157	1 AP		Nurnberg
09:14	11,282	396	1 AP		Nurnberg
09:29	10,713	-115	1 HE		Stuttgart
09:33	11,009	404	1 HE		Stuttgart
4in/50	Secondary Total		170 shells	1 hit	0.6%

Home Fleet, Temeraire

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:54	16,492	-453	1 HE		Nassau
08:58	14,830	-572	1 HE		Westfalen
09:00	13,763	-478	2 HE		Westfalen
09:01	13,406	-407	1 HE		Nassau
09:03	13,318	84	8 HE		Rheinland
09:04	13,403	-274	7 AP		Rheinland
09:05	13,407	3	6 AP		Rheinland
09:06	13,410	-619	1 AP		Rheinland
09:07	13,384	-105	4 HE		Nassau
09:08	13,279	-105	5 HE		Nassau
09:09	13,157	-123	5 HE		Nassau
09:10	13,035	-122	5 AP		Nassau
09:11	12,828	-151	5 AP		Rheinland
09:12	12,651	-94	5 AP		Rheinland
09:13	12,559	-121	5 AP		Rheinland
09:14	12,441	-136	6 AP		Rheinland
09:15	12,305	-154	5 AP		Rheinland
09:16	12,401	96	4 AP		Rheinland
09:17	12,342	-67	5 AP		Rheinland
09:18	12,283	-59	6 AP		Rheinland
09:19	12,213	-70	5 AP		Rheinland
09:20	12,143	-70	6 AP		Rheinland
09:21	12,082	-61	5 AP		Rheinland
09:22	12,021	-61	5 AP		Rheinland
09:23	11,949	-72	5 AP		Rheinland
09:24	11,876	-72	6 AP	1 hit	Rheinland
09:25	11,812	-64	5 AP		Rheinland
09:26	11,817	-63	6 AP		Rheinland
09:27	11,153	-83	6 AP	1 hit	Rheinland
09:28	11,102	-51	5 AP		Rheinland
09:29	11,062	-39	6 AP		Rheinland
09:30	11,033	-29	5 AP		Rheinland
09:32	11,935	48	1 HE		Westfalen
09:36	12,041	119	4 HE		Westfalen
09:40	13,334	566	1 HE		Westfalen
09:49	15,792	-111	1 HE		Westfalen
09:51	15,511	-152	2 HE		Westfalen
09:52	15,350	-160	1 HE		Westfalen
09:53	15,189	-160	1 HE		Westfalen
09:54	15,030	-160	2 HE		Westfalen
09:55	14,893	-136	2 AP		Westfalen
09:56	14,781	-111	1 AP		Westfalen
09:57	14,634	-146	2 AP		Westfalen
09:58	14,465	-169	2 AP		Westfalen
09:59	14,297	-169	3 AP		Westfalen
10:00	14,152	-144	2 AP		Westfalen
10:01	14,032	-121	2 AP		Westfalen
10:02	13,936	-94	1 AP		Westfalen
10:04	14,037	-36	1 AP		Nassau
10:06	13,285	-522	1 HE		Westfalen
10:09	14,210	81	1 HE		Nassau
10:11	14,461	144	1 HE		Nassau
10:14	14,767	268	1 HE		Westfalen
10:17	15,757	257	1 HE		Nassau
12in/45 Primary Total			186 shells	2 hits	1.1%

Home Fleet, Temeraire, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:46	10,425	-1,320	2 HE		Nurnberg
08:47	9,115	-1,295	1 HE		Nurnberg
08:48	7,834	-1,266	2 HE		Nurnberg
08:49	6,572	-1,225	16 HE		Nurnberg
08:50	5,393	-1,127	21 HE		Nurnberg
08:51	4,365	-920	26 HE	1 hit	Nurnberg
08:52	3,445	-920	32 AP		Nurnberg
08:53	3,539	727	20 AP		Nurnberg
08:55	10,908	-354	1 AP		Kolberg
08:56	10,187	-721	1 AP		Kolberg
08:57	6,523	-379	11 HE		Nurnberg
08:58	6,508	21	1 HE		Nurnberg
08:59	6,415	-25	17 HE		Nurnberg
09:00	10,316	-35	1 HE		Kolberg
09:01	6,307	-51	11 HE		Nurnberg
09:03	10,576	-195	1 HE		Augsburg
09:04	7,567	632	1 HE		Nurnberg
09:05	8,231	665	1 HE		Nurnberg
09:06	8,925	696	1 HE		Nurnberg
09:07	9,188	128	1 HE		Nurnberg
09:08	9,359	172	1 HE		Nurnberg
09:10	9,665	155	1 HE		Nurnberg
09:13	10,430	351	1 HE		Nurnberg
09:28	10,654	-117	1 HE		Stuttgart
4in/50	Secondary	Total	172 shells	1 hit	0.6%

Home Fleet, Colossus

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:55	16,597	-472	1 HE		Westfalen
08:58	15,189	-923	1 HE		Rheinland
09:00	13,820	-99	1 HE		Rheinland
09:01	13,827	-426	2 HE		Westfalen
09:02	13,394	-381	2 AP		Westfalen
09:03	13,162	46	4 AP		Westfalen
09:04	13,208	63	9 AP		Westfalen
09:05	13,273	67	9 AP	2 hits	Westfalen
09:06	13,037	43	10 AP		Posen
09:07	12,967	-70	8 AP		Posen
09:08	12,884	-83	6 AP		Posen
09:09	12,801	-83	7 AP		Posen
09:10	12,694	-107	5 AP		Posen
09:11	12,587	-59	7 AP		Posen
09:12	12,598	11	7 AP		Posen
09:13	12,610	12	8 AP		Posen
09:14	12,630	68	5 AP		Posen
09:15	12,698	68	5 AP		Posen
09:16	12,774	46	5 AP		Posen
09:17	12,702	-72	4 AP		Posen
09:18	12,630	-72	3 AP		Posen
09:19	12,543	-87	3 AP		Posen
09:20	12,457	-85	6 AP		Posen
09:21	12,372	-85	5 AP		Posen
09:22	12,287	-85	6 AP		Posen
09:23	12,188	-98	5 AP		Posen
09:24	12,091	-98	5 AP		Posen
09:25	11,994	-96	6 AP		Posen
09:26	11,898	-96	6 AP		Posen
09:27	11,691	-208	4 AP		Posen
09:28	10,961	-79	5 AP		Posen
09:29	10,896	-65	6 AP		Posen
09:30	10,830	-65	6 AP		Posen
09:31	10,765	-65	5 AP		Posen
09:32	10,713	63	6 AP		Posen
09:33	10,782	302	6 AP	1 hit	Posen
09:34	11,312	93	5 AP		Posen
09:35	11,399	100	6 AP		Posen
09:36	11,518	106	5 AP		Posen
09:37	11,632	115	5 AP		Posen
09:38	11,753	122	5 AP		Posen
09:39	11,868	115	6 AP		Posen
09:40	11,976	109	5 AP		Posen
09:41	12,089	113	5 AP		Posen
09:42	12,194	105	6 AP		Posen
09:43	12,292	97	6 AP		Posen
09:44	12,389	97	6 AP		Posen
09:45	12,487	97	5 AP		Posen
09:46	12,592	105	6 AP		Posen
09:47	12,718	101	5 AP	1 hit	Posen
09:48	12,850	97	5 AP		Posen
09:49	12,909	-180	5 AP		Posen
09:50	12,748	-169	4 AP		Posen
09:51	12,589	-159	5 SAP		Posen
09:52	12,434	-154	6 SAP	1 hit	Posen
09:53	12,280	-154	4 SAP	1 hit	Posen
09:54	12,127	-152	4 SAP		Posen
09:55	11,976	-152	5 SAP		Posen
09:56	11,826	-150	4 SAP		Posen
09:57	11,678	-147	4 SAP		Posen
09:58	11,519	-147	5 SAP	1 hit	Posen
09:59	11,349	-158	5 SAP	1 hit	Posen
10:00	11,190	-158	5 SAP rapid		Posen
10:01	11,032	-157	6 SAP rapid		Posen
10:02	10,887	-145	3 SAP		Posen
10:03	10,755	-130	3 SAP		Posen

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Home Fleet, Colossus (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
10:04	10,638	-114	4 SAP rapid		Posen
10:05	10,538	-98	5 SAP rapid		Posen
10:06	10,033	-505	3 SAP		Posen
10:07	10,107	56	3 SAP		Posen
10:08	10,134	5	3 SAP		Posen
10:09	10,315	-22	3 SAP		Posen
10:10	10,311	0	3 SAP		Posen
10:11	10,333	27	3 SAP		Posen
10:12	10,383	57	4 SAP		Posen
10:13	10,463	89	3 SAP		Posen
10:14	10,556	101	6 SAP rapid	1 hit	Posen
10:15	10,660	107	5 SAP rapid		Posen
10:16	10,775	119	3 SAP	1 hit	Posen
10:17	10,914	143	6 SAP rapid		Posen
10:18	11,079	169	1 SAP rapid		Posen
10:19	11,481	203	2 SAP		Rheinland
10:20	11,689	217	1 SAP		Rheinland
10:21	11,909	223	2 SAP		Rheinland
10:23	12,470	23	2 SAP		Westfalen
10:24	12,499	38	1 SAP		Westfalen
10:25	12,543	53	1 SAP		Westfalen
10:26	12,601	68	2 SAP		Westfalen
10:27	12,674	83	1 SAP		Westfalen
10:28	12,817	162	1 SAP		Westfalen
12in/50 Primary	Total		406 shells	10 hits	2.5%

Home Fleet, Colossus, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:46	10,881	-1,328	2 HE		Nurnberg
08:47	9,561	-1,312	1 HE		Nurnberg
08:48	8,265	-1,276	2 HE		Nurnberg
08:49	6,979	-1,261	2 HE		Nurnberg
08:50	5,761	-1,171	13 HE		Nurnberg
08:51	4,662	-1,011	17 HE		Nurnberg
08:52	3,751	-908	19 HE		Nurnberg
08:53	3,836	452	27 AP		Nurnberg
08:54	4,272	866	15 AP		Nurnberg
08:56	10,476	-491	1 HE		Kolberg
08:58	6,744	6	2 HE		Nurnberg
08:59	6,627	-45	1 HE		Nurnberg
09:00	10,813	-35	1 HE		Kolberg
09:01	6,472	-74	12 HE		Nurnberg
09:02	6,530	63	2 HE		Nurnberg
09:03	6,460	629	1 HE		Nurnberg
09:05	7,763	640	2 HE		Nurnberg
09:06	8,432	669	1 HE		Nurnberg
09:08	8,744	189	1 HE		Nurnberg
09:09	8,892	148	1 HE		Nurnberg
09:11	9,224	201	1 HE		Nurnberg
09:13	9,868	345	1 HE		Nurnberg
09:27	11,382	-226	1 HE		Kolberg
09:30	10,476	-75	1 HE		Kolberg
09:33	11,241	666	1 HE		Augsburg
09:54	10,980	-221	1 HE		Augsburg
09:58	10,199	-145	1 HE		Kolberg
10:03	9,284	-169	1 HE		Stuttgart
10:07	9,549	550	1 HE		Stuttgart
10:08	10,120	481	1 HE		Stuttgart
4in/50	Secondary Total		133 shells	0 hits	

Home Fleet, Superb

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:53	16,513	-1,224	1 HE		Nassau
08:55	15,057	-1,224	1 HE		Rheinland
08:56	14,330	-1,221	1 HE		Posen
08:58	13,171	-528	1 HE		Posen
08:59	12,680	-328	8 HE		Posen
09:00	12,825	-18	10 HE		Posen
09:01	12,810	-10	8 AP		Posen
09:02	12,638	-172	9 AP		Posen
09:03	12,460	-177	8 AP		Posen
09:04	12,285	-133	12 AP	1 hit	Posen
09:05	12,149	-133	12 AP		Posen
09:06	12,014	-133	8 AP		Posen
09:07	12,055	42	8 AP		Posen
09:08	12,097	42	9 AP		Posen
09:09	12,139	42	9 AP		Posen
09:10	12,180	42	5 AP		Posen
09:11	12,222	42	6 AP		Posen
09:12	12,088	-133	6 AP		Posen
09:13	11,957	-131	8 AP	1 hit	Posen
09:14	11,842	-66	6 AP		Posen
09:15	11,777	-66	7 AP		Posen
09:16	11,711	-65	6 AP		Posen
09:17	11,646	-65	7 AP		Posen
09:18	11,582	-65	7 AP		Posen
09:19	11,517	-64	6 AP		Posen
09:20	11,453	-64	5 AP		Posen
09:21	11,390	-64	5 AP		Posen
09:22	11,326	-63	6 AP		Posen
09:23	11,263	-63	5 AP		Posen
09:24	11,201	-63	5 AP		Posen
09:25	11,139	-62	6 AP		Posen
09:26	11,077	-62	5 AP		Posen
09:27	11,015	-62	4 AP		Posen
09:28	10,954	-58	5 AP		Posen
09:29	10,896	-58	1 SAP		Posen
09:30	10,979	83	1 SAP		Posen
09:31	11,056	78	2 SAP		Posen
09:32	11,127	72	2 SAP		Posen
09:33	11,194	66	1 SAP		Posen
09:34	11,256	63	2 SAP		Posen
09:35	11,315	60	2 SAP		Posen
09:39	11,263	123	1 AP		Posen
12in/45 Primary Total			227 shells	2 hits	0.9%

Home Fleet, Superb, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:46	10,598	-1,198	2 HE		Nurnberg
08:47	9,428	-1,146	1 HE		Nurnberg
08:48	8,327	-1,056	2 HE		Nurnberg
08:49	7,326	-938	14 HE		Nurnberg
08:50	6,457	-765	2 HE		Nurnberg
08:51	5,813	-506	25 HE		Nurnberg
08:52	4,939	-863	23 HE	1 hit	Nurnberg
08:53	11,220	-1,153	1 AP		Kolberg
08:54	10,052	-1,149	2 AP		Kolberg
08:55	5,665	355	1 HE		Nurnberg
08:56	7,753	-1,149	2 HE		Kolberg
08:57	8,074	321	1 HE		Kolberg
08:58	8,363	289	2 HE		Kolberg
08:59	7,495	605	1 HE		Nurnberg
09:00	8,105	611	1 HE		Nurnberg
09:01	9,728	719	2 HE		Kolberg
09:02	10,187	488	1 HE		Kolberg
09:03	10,241	29	1 HE		Augsburg
09:24	11,381	-156	1 HE		Augsburg
09:28	10,875	-158	1 HE		Stuttgart
4in/50	Secondary	Total	86 shells	1 hit	1.2%

Home Fleet, Bellerophon

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
08:53	16,339	-1,276	1 HE			Blucher
08:56	15,950	-1,191	1 HE			Thurigen
08:58	14,426	-517	7 HE			Thurigen
08:59	13,887	-528	8 HE			Thurigen
09:00	13,379	-492	6 HE			Thurigen
09:01	12,886	-78	8 HE		1 hit	Thurigen
09:02	12,869	-162	12 AP	rapid		Thurigen
09:03	12,697	-170	7 AP			Thurigen
09:04	12,529	-169	9 AP			Thurigen
09:05	12,345	-183	8 AP		1 hit	Thurigen
09:06	12,162	-132	9 AP			Thurigen
09:07	12,037	44	5 AP		2 hits	Thurigen
09:08	12,076	42	11 AP	rapid	1 hit	Thurigen
09:09	12,118	42	9 AP			Thurigen
09:10	12,159	42	9 AP		1 hit	Thurigen
09:11	12,201	42	12 AP	rapid	2 hits	Thurigen
09:12	12,213	-136	12 AP	rapid		Thurigen
09:13	12,077	-136	10 AP			Thurigen
09:14	11,942	-136	10 AP			Thurigen
09:15	11,823	-133	9 AP			Thurigen
09:16	11,758	-64	9 AP			Thurigen
09:17	11,694	-64	10 AP		1 hit	Thurigen
09:18	11,630	-64	10 AP			Thurigen
09:19	11,567	-64	10 AP		1 hit	Thurigen
09:20	11,504	-63	10 AP		2 hits	Thurigen
09:21	11,441	-63	11 AP		1 hit	Thurigen
09:22	11,379	-62	9 SAP			Thurigen
09:23	11,317	-62	10 SAP			Thurigen
09:24	11,256	-62	8 SAP			Thurigen
09:25	11,195	-60	9 SAP		1 hit	Thurigen
09:26	11,134	-60	9 SAP			Thurigen
09:27	11,074	-60	9 SAP		1 hit	Thurigen
09:28	11,014	-59	12 SAP			Thurigen
09:29	10,956	-58	12 SAP		1 hit	Thurigen
09:30	10,909	83	12 SAP		1 hit	Thurigen
09:31	10,985	76	12 SAP		1 hit	Thurigen
09:32	11,055	70	12 SAP			Thurigen
09:33	11,119	64	12 SAP		3 hits	Thurigen
09:34	11,179	60	10 SAP			Thurigen
09:35	11,235	57	10 SAP		2 hits	Thurigen
09:36	11,289	56	11 SAP		2 hits	Thurigen
09:37	11,350	63	12 SAP		1 hit	Thurigen
09:38	11,418	70	12 SAP		1 hit	Thurigen
09:39	11,491	74	12 SAP		1 hit	Thurigen
09:40	11,566	74	12 SAP		2 hits	Thurigen
09:41	11,642	77	11 SAP		1 hit	Thurigen
09:42	11,725	80	7 SAP			Thurigen
09:43	11,811	83	8 SAP		1 hit	Thurigen
09:44	11,900	86	7 HE			Thurigen
09:45	11,992	89	7 HE			Thurigen
09:46	12,088	91	7 HE			Thurigen
09:47	12,181	95	9 HE			Thurigen
09:48	12,277	99	9 HE			Thurigen
09:49	12,376	102	9 HE			Thurigen
09:50	12,470	94	8 HE		1 hit	Thurigen
09:51	12,283	-186	8 HE			Thurigen
09:52	12,107	-186	12 HE		1 hit	Thurigen
09:53	11,921	-185	12 HE			Thurigen
09:54	11,708	-173	10 HE		1 hit	Thurigen
09:55	11,620	-175	11 HE		2 hits	Thurigen
09:56	11,445	-175	12 HE		1 hit	Thurigen
09:57	11,267	-178	12 HE		2 hits	Thurigen
09:58	11,108	-169	12 HE		1 hit	Thurigen
09:59	10,940	-169	12 HE		1 hit	Thurigen
10:00	10,771	-169	12 HE		1 hit	Thurigen
10:01	10,603	-168	11 HE		1 hit	Thurigen

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Home Fleet, Bellerophon (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
10:02	10,619	369	1 HE		Westfalen
10:03	10,868	270	5 AP		Westfalen
10:04	11,130	277	3 AP		Westfalen
10:05	11,455	349	2 AP		Westfalen
10:06	11,380	-72	1 AP		Westfalen
10:07	11,317	-58	3 AP		Westfalen
10:08	11,761	462	2 AP		Westfalen
10:09	12,258	491	2 AP		Westfalen
10:10	12,732	481	2 AP		Westfalen
10:41	18,346	230	1 HE		Posen
12in/45 Primary	Total	656 shells	44 hits	6.7%	

Home Fleet, Bellerophon, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:53	5,175	112	13 HE		Nurnberg
08:54	5,403	244	1 AP		Nurnberg
08:55	5,716	326	2 AP		Nurnberg
08:56	6,103	397	1 AP		Nurnberg
08:57	8,114	315	1 HE		Kolberg
08:58	8,401	287	1 HE		Kolberg
08:59	8,726	325	1 HE		Kolberg
09:00	7,625	612	2 HE		Nurnberg
09:02	8,865	566	1 HE		Nurnberg
09:04	10,145	653	1 HE		Nurnberg
09:25	11,329	-154	1 HE		Stuttgart
09:27	10,860	-142	1 HE		Kolberg
09:29	10,586	-133	1 HE		Kolberg
09:31	11,268	808	1 HE		Kolberg
09:33	11,174	600	1 HE		Stuttgart
09:51	11,206	-307	1 HE		Kolberg
09:52	10,902	-301	2 HE		Kolberg
09:53	10,781	-301	1 HE		Augsburg
09:54	10,324	-278	1 HE		Kolberg
09:55	10,051	-266	2 HE		Kolberg
09:56	9,916	-272	1 HE		Augsburg
09:57	9,643	-267	2 HE		Augsburg
09:58	9,380	-256	2 HE		Augsburg
09:59	9,130	-244	1 HE		Augsburg
10:00	8,892	-232	7 HE		Augsburg
10:01	8,668	-220	6 HE		Augsburg
10:04	9,598	193	2 HE		Stuttgart
10:05	10,862	1,052	1 HE		Kolberg
10:06	11,370	992	1 HE		Augsburg
4in/50	Secondary	Total	59 shells	0 hits	

Home Fleet, Neptune

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
08:54	16,045	-1,276	1 HE			Roon
08:56	14,826	-1,224	2 HE			Rheinland
08:58	14,427	-539	1 HE			Thurigen
08:59	14,360	-517	7 HE			Ostfriesland
09:00	13,823	-528	8 HE			Ostfriesland
09:01	13,354	-459	9 HE		1 hit	Ostfriesland
09:02	12,922	-395	10 AP	rapid		Ostfriesland
09:03	12,861	-170	8 AP			Ostfriesland
09:04	12,690	-158	10 AP			Ostfriesland
09:05	12,526	-155	10 AP			Ostfriesland
09:06	12,365	-181	11 AP			Ostfriesland
09:07	12,233	-131	12 AP			Ostfriesland
09:08	12,157	41	11 AP		1 hit	Ostfriesland
09:09	12,198	41	10 AP			Ostfriesland
09:10	12,239	41	11 AP		1 hit	Ostfriesland
09:11	12,276	37	11 AP			Ostfriesland
09:12	12,313	37	11 AP			Ostfriesland
09:13	12,292	-140	15 AP	rapid		Ostfriesland
09:14	12,152	-140	10 AP			Ostfriesland
09:15	12,016	-157	11 AP			Ostfriesland
09:16	11,865	-161	12 AP			Ostfriesland
09:17	11,792	-73	12 AP		1 hit	Ostfriesland
09:18	11,719	-73	11 AP		1 hit	Ostfriesland
09:19	11,646	-82	11 AP		1 hit	Ostfriesland
09:20	11,556	-63	13 AP			Ostfriesland
09:21	11,494	-63	11 AP			Ostfriesland
09:22	11,431	-62	13 AP		1 hit	Ostfriesland
09:23	11,370	-62	13 AP		2 hits	Ostfriesland
09:24	11,308	-62	12 SAP			Ostfriesland
09:25	11,247	-60	13 SAP		1 hit	Ostfriesland
09:26	11,186	-60	10 SAP		1 hit	Ostfriesland
09:27	11,126	-60	14 SAP		2 hits	Ostfriesland
09:28	11,066	-59	14 SAP		1 hit	Ostfriesland
09:29	11,008	-58	11 SAP		1 hit	Ostfriesland
09:30	10,953	-56	15 SAP		1 hit	Ostfriesland
09:31	10,907	76	13 SAP		1 hit	Ostfriesland
09:32	10,977	70	15 SAP			Ostfriesland
09:33	11,041	64	11 SAP		1 hit	Ostfriesland
09:34	11,101	60	15 SAP		1 hit	Ostfriesland
09:35	11,157	57	12 SAP		4 hits	Ostfriesland
09:36	11,210	56	13 SAP			Ostfriesland
09:37	11,272	63	15 SAP			Ostfriesland
09:38	11,340	70	15 SAP		1 hit	Ostfriesland
09:39	11,413	74	11 SAP		1 hit	Ostfriesland
09:40	11,487	74	15 SAP		1 hit	Ostfriesland
09:41	11,564	77	15 SAP		1 hit	Ostfriesland
09:42	11,647	80	15 SAP			Ostfriesland
09:43	11,728	83	15 SAP		1 hit	Ostfriesland
09:44	11,812	86	13 SAP			Ostfriesland
09:45	11,899	89	11 HE			Ostfriesland
09:46	11,987	89	13 HE		2 hits	Ostfriesland
09:47	12,078	92	10 HE		1 hit	Ostfriesland
09:48	12,173	95	8 HE		1 hit	Ostfriesland
09:49	12,270	99	11 HE		1 hit	Ostfriesland
09:50	12,370	102	10 HE			Ostfriesland
09:51	12,465	97	11 HE		1 hit	Ostfriesland
09:52	12,305	-186	9 HE			Ostfriesland
09:53	12,119	-185	11 HE			Ostfriesland
09:54	11,907	-173	15 HE		2 hits	Ostfriesland
09:55	11,818	-175	14 HE			Ostfriesland
09:56	11,644	-175	13 HE			Ostfriesland
09:57	12,082	441	14 HE			Ostfriesland
09:58	12,196	143	11 HE			Ostfriesland
09:59	11,888	-298	14 HE		1 hit	Ostfriesland
10:00	11,512	-142	15 HE			Ostfriesland
10:01	11,330	-156	15 HE			Ostfriesland

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Home Fleet, Neptune (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
10:02	11,735	408	15 HE	1 hit	Ostfriesland
10:04	11,829	-96	10 HE	1 hit	Ostfriesland
10:05	11,828	17	12 HE		Ostfriesland
10:47	18,275	-504	1 HE		Blucher
12in/50	Primary	Total	800 shells	39 hits	4.9%

Home Fleet, Neptune, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:54	5,529	208	2 HE		Nurnberg
08:55	5,809	295	1 HE		Nurnberg
08:56	8,749	-1,149	2 HE		Kolberg
08:57	8,526	-214	2 HE		Kolberg
08:58	5,954	735	1 HE		Nurnberg
08:59	8,792	328	1 HE		Kolberg
09:00	7,147	581	1 HE		Nurnberg
09:01	9,735	631	1 HE		Kolberg
09:02	8,396	634	1 HE		Nurnberg
09:04	11,029	606	1 HE		Augsburg
09:24	11,330	-139	1 HE		Kolberg
09:27	11,034	-146	1 HE		Stuttgart
09:29	10,746	-142	1 HE		Stuttgart
09:32	11,318	537	1 HE		Augsburg
09:52	11,134	-301	1 HE		Augsburg
09:54	10,422	-260	1 HE		Kolberg
09:56	9,922	-235	1 HE		Kolberg
09:57	9,682	-232	1 HE		Kolberg
09:58	9,521	-238	1 HE		Augsburg
10:00	9,068	-214	1 HE		Augsburg
10:01	8,855	-175	1 HE		Kolberg
10:02	8,974	-303	2 HE		Stuttgart
10:04	9,351	511	1 HE		Kolberg
10:05	9,914	1,040	1 HE		Augsburg
10:07	10,780	1,005	1 HE		Stuttgart
4in/50	Secondary	Total	29 shells	0 hits	

Home Fleet, Dreadnought

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:54	16,544	-1,276	1 HE		Roon
08:56	14,826	-1,224	1 HE		Westfalen
08:57	13,722	-669	1 HE		Westfalen
09:00	12,764	-13	1 HE		Westfalen
09:01	13,795	-485	1 HE		Helgoland
09:02	12,810	33	1 HE		Nassau
09:03	12,840	29	8 HE		Nassau
09:04	12,785	-123	7 HE		Nassau
09:05	12,655	-130	7 HE		Nassau
09:06	12,507	-174	9 AP		Helgoland
09:07	12,375	-132	8 AP		Helgoland
09:08	12,243	-132	8 AP		Helgoland
09:09	12,196	41	8 AP	2 hits	Helgoland
09:10	12,227	31	8 AP	1 hit	Helgoland
09:11	12,268	41	8 AP		Helgoland
09:12	12,305	37	8 AP		Helgoland
09:13	12,332	26	9 AP		Helgoland
09:14	12,280	-140	7 AP		Helgoland
09:15	12,145	-157	8 AP		Helgoland
09:16	11,993	-161	7 AP	1 hit	Helgoland
09:17	11,911	-82	9 AP	1 hit	Helgoland
09:18	11,827	-84	8 AP	1 hit	Helgoland
09:19	11,745	-92	7 AP		Helgoland
09:20	11,608	-63	9 AP		Helgoland
09:21	11,546	-63	6 AP		Helgoland
09:22	11,484	-62	9 AP	1 hit	Helgoland
09:23	11,422	-62	9 AP		Helgoland
09:24	11,360	-62	10 AP	1 hit	Helgoland
09:25	11,299	-60	9 AP		Helgoland
09:26	11,239	-60	10 AP		Helgoland
09:27	11,178	-60	10 AP		Helgoland
09:28	11,118	-59	7 AP		Helgoland
09:29	11,061	-58	10 AP		Helgoland
09:30	11,005	-56	10 SAP	3 hits	Helgoland
09:31	10,951	-54	11 SAP	1 hit	Helgoland
09:32	10,899	70	10 SAP	1 hit	Helgoland
09:33	10,963	64	12 SAP	1 hit	Helgoland
09:34	11,023	60	11 SAP	1 hit	Helgoland
09:35	11,078	57	11 SAP	1 hit	Helgoland
09:36	11,132	56	12 SAP	1 hit	Helgoland
09:37	11,194	63	11 SAP		Helgoland
09:38	11,261	70	12 SAP	1 hit	Helgoland
09:39	11,335	74	12 SAP	2 hits	Helgoland
09:40	11,409	74	12 SAP		Helgoland
09:41	11,486	77	12 SAP	1 hit	Helgoland
09:42	11,568	80	12 SAP		Helgoland
09:43	11,654	83	10 SAP		Helgoland
09:44	11,743	86	10 SAP	1 hit	Helgoland
09:45	11,836	89	10 SAP	1 hit	Helgoland
09:46	11,931	91	10 SAP	1 hit	Helgoland
09:47	12,025	95	11 SAP		Helgoland
09:48	12,121	99	12 SAP		Helgoland
09:49	12,221	102	10 SAP		Helgoland
09:50	12,315	94	8 SAP		Helgoland
09:51	12,403	89	10 HE		Helgoland
09:52	12,503	-186	10 HE		Helgoland
09:53	12,318	-185	10 HE		Helgoland
09:54	12,105	-173	11 HE		Helgoland
09:55	12,017	-175	9 HE	1 hit	Helgoland
09:56	11,842	-175	9 HE	1 hit	Helgoland
09:57	11,655	-187	10 HE		Helgoland
09:58	11,459	-196	11 HE		Helgoland
09:59	11,256	-202	9 HE		Helgoland
10:00	11,038	-192	12 HE		Helgoland
10:01	10,871	-184	11 HE	1 hit	Helgoland
10:02	10,698	-181	11 HE		Helgoland

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Home Fleet, Dreadnought (continued)

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
10:03	10,520	114	10 HE			Helgoland
10:04	10,639	307	3 AP	rapid		Helgoland
10:05	10,790	198	9 AP		1 hit	Helgoland
10:06	10,533	-80	2 AP			Posen
10:07	10,818	457	6 AP		1 hit	Posen
10:08	11,215	386	5 AP			Posen
10:09	11,752	331	6 AP			Posen
10:10	12,064	318	3 AP			Posen
10:11	12,363	311	2 AP			Posen
10:12	12,647	288	3 AP			Posen
10:50	16,391	-583	1 HE			Blucher
12in/45 Primary	Total		631 shells		29 hits	4.6%

Home Fleet, Shannon

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:39	14,503	-1,248	1 SAP		Nurnberg
08:40	13,228	-1,263	1 SAP		Nurnberg
08:41	11,973	-1,245	2 SAP		Nurnberg
08:42	10,744	-1,214	3 SAP		Nurnberg
08:43	9,550	-1,168	2 SAP		Nurnberg
08:44	8,406	-1,117	5 SAP		Nurnberg
08:45	7,311	-1,040	11 SAP		Nurnberg
08:46	6,334	-901	12 SAP	1 hit	Nurnberg
08:47	5,538	-682	10 SAP		Nurnberg
08:48	5,010	-367	9 SAP	1 hit	Nurnberg
08:49	11,705	-1,391	2 SAP		Kolberg
08:51	13,935	-1,232	2 SAP		Nassau
08:52	12,773	-1,159	1 SAP		Nassau
08:55	10,478	-1,118	1 SAP		Roon
08:56	8,668	-1,150	2 SAP		Blucher
08:57	8,454	-214	2 SAP		Blucher
08:58	8,483	40	8 SAP		Blucher
08:59	8,502	19	9 AP	1 hit	Blucher
09:00	8,511	9	7 AP		Blucher
09:01	8,510	-1	7 AP		Blucher
09:02	8,431	-78	7 AP		Blucher
09:03	8,350	-82	8 AP		Blucher
09:04	8,283	-67	6 AP		Blucher
09:05	8,909	-90	1 SAP		Nassau
09:06	8,820	-89	7 SAP		Nassau
09:07	8,903	84	7 SAP		Nassau
09:08	8,987	85	8 AP		Nassau
09:09	8,499	35	1 SAP		Blucher
09:10	8,546	47	8 SAP		Blucher
09:11	8,593	47	8 AP		Blucher
09:12	8,576	-17	8 AP		Blucher
09:13	8,542	-33	8 AP		Blucher
09:14	8,492	-50	7 AP		Blucher
09:15	8,443	-48	9 AP		Blucher
09:16	8,395	-47	8 AP		Blucher
09:17	8,348	-47	8 AP	2 hits	Blucher
09:18	8,292	-55	8 AP		Blucher
09:19	8,237	-55	9 AP	1 hit	Blucher
09:20	8,184	-53	7 SAP		Blucher
09:21	8,131	-52	8 SAP		Blucher
09:22	8,078	-52	9 SAP		Blucher
09:23	8,026	-52	6 SAP		Blucher
09:24	8,178	-80	9 SAP		Blucher
09:25	8,071	-92	8 SAP		Blucher
09:26	7,980	-90	8 SAP		Blucher
09:27	7,892	-87	8 SAP		Blucher
09:28	7,820	-71	8 SAP		Blucher
09:29	7,773	-46	9 SAP		Blucher
09:30	7,727	-46	8 SAP	1 hit	Blucher
09:31	7,683	-45	8 SAP		Blucher
09:32	7,959	278	6 SAP		Blucher
09:33	8,280	330	7 SAP		Blucher
09:34	8,555	275	7 SAP		Blucher
09:35	8,825	269	7 SAP		Blucher
09:36	9,094	269	6 SAP		Blucher
09:37	9,227	133	7 SAP		Blucher
09:38	9,363	137	6 SAP		Blucher
09:39	9,512	137	5 SAP		Blucher
09:40	9,642	130	6 SAP		Blucher
09:41	9,772	130	6 SAP		Blucher
09:42	9,911	128	2 SAP		Blucher
09:43	9,953	123	2 SAP		Blucher
09:44	10,092	135	3 SAP		Blucher
09:45	10,227	138	3 SAP		Blucher
09:46	10,365	138	3 SAP		Blucher
09:47	9,889	-476	3 SAP		Blucher

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Home Fleet, Shannon (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:48	9,250	-647	2 SAP		Blucher
09:49	8,665	-613	1 SAP		Blucher
09:50	8,118	-547	5 SAP		Blucher
9.2in/50	Primary	Total	406 shells	7 hits	1.7%

Home Fleet, Shannon, Secondary

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
08:40	13,228	-1,263	2 HE			Nurnberg
08:41	11,973	-1,245	1 HE			Nurnberg
08:42	10,744	-1,214	4 HE			Nurnberg
08:43	9,550	-1,168	4 HE			Nurnberg
08:44	8,406	-1,117	9 HE			Nurnberg
08:45	7,311	-1,040	9 HE			Nurnberg
08:46	6,334	-901	13 HE			Nurnberg
08:47	5,538	-682	14 HE			Nurnberg
08:48	5,010	-367	20 HE			Nurnberg
08:49	11,705	-1,391	1 HE			Kolberg
08:51	13,935	-1,232	1 HE			Nassau
08:52	12,773	-1,159	1 HE			Nassau
08:54	13,983	-977	1 HE			Yorck
08:55	10,478	-1,118	1 HE			Roon
08:56	8,668	-1,150	1 HE			Blucher
08:57	8,454	-214	1 HE			Blucher
08:58	8,483	40	9 HE			Blucher
08:59	8,502	19	9 HE			Blucher
09:00	8,511	9	8 HE		1 hit	Blucher
09:01	8,510	-1	16 AP	rapid		Blucher
09:02	8,431	-78	8 AP			Blucher
09:03	8,350	-82	7 AP		1 hit	Blucher
09:04	8,283	-67	16 AP	rapid		Blucher
09:05	8,909	-90	7 HE			Nassau
09:06	8,820	-89	6 HE			Nassau
09:07	8,903	84	8 HE			Nassau
09:08	8,987	85	9 HE			Nassau
09:09	8,499	35	1 AP			Blucher
09:10	8,546	47	8 AP			Blucher
09:11	8,593	47	10 AP			Blucher
09:12	8,576	-17	1 AP			Blucher
09:13	8,542	-33	9 AP			Blucher
09:14	8,492	-50	8 AP			Blucher
09:15	8,443	-48	8 AP			Blucher
09:16	8,395	-47	8 AP			Blucher
09:17	8,348	-47	8 AP			Blucher
09:18	8,292	-55	7 AP			Blucher
09:19	8,237	-55	7 AP		1 hit	Blucher
09:20	8,184	-53	15 AP	rapid		Blucher
09:21	8,131	-52	7 AP			Blucher
09:22	8,078	-52	8 AP		1 hit	Blucher
09:23	8,026	-52	14 AP	rapid	1 hit	Blucher
09:24	8,178	-80	11 AP	rapid		Blucher
09:25	8,071	-92	9 AP			Blucher
09:26	7,980	-90	9 AP			Blucher
09:27	7,892	-87	9 AP			Blucher
09:28	7,820	-71	7 AP			Blucher
09:29	7,773	-46	9 AP			Blucher
09:30	7,727	-46	7 AP			Blucher
09:31	7,683	-45	7 AP		1 hit	Blucher
09:32	7,959	278	14 AP	rapid	2 hits	Blucher
09:33	8,280	330	15 AP	rapid		Blucher
09:34	8,555	275	7 AP		1 hit	Blucher
09:35	8,825	269	15 AP	rapid		Blucher
09:36	9,094	269	6 AP		1 hit	Blucher
09:37	9,227	133	15 AP	rapid		Blucher
09:38	9,363	137	5 AP			Blucher
09:39	9,512	137	5 AP			Blucher
09:40	9,642	130	6 AP			Blucher
09:41	9,772	130	6 AP			Blucher
09:42	9,911	128	5 AP			Blucher
09:43	9,953	123	5 AP			Blucher
09:44	10,092	135	6 AP			Blucher
09:45	10,227	138	4 AP			Blucher
09:46	10,365	138	6 AP			Blucher
09:47	9,889	-476	6 AP			Blucher

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Home Fleet, Shannon, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:48	9,250	-647	2 HE		Blucher
09:49	8,665	-613	1 HE		Blucher
09:50	8,118	-547	9 HE		Blucher
09:52	14,324	-186	1 HE		Nassau
09:53	14,002	-186	1 HE		Nassau
09:54	13,760	-186	1 HE		Nassau
09:56	13,381	-185	1 HE		Nassau
09:57	13,226	-171	4 HE		Nassau
09:58	13,057	-169	3 HE		Nassau
09:59	6,155	-156	9 HE		Blucher
10:00	12,733	-169	1 HE		Nassau
10:01	12,572	-169	1 HE		Nassau
10:02	6,250	412	3 HE		Blucher
10:03	6,628	400	9 HE		Blucher
10:05	7,553	516	3 HE		Blucher
10:06	8,118	583	2 HE		Blucher
10:07	8,744	640	2 HE		Blucher
10:08	9,397	674	2 HE		Blucher
10:09	10,081	705	1 HE		Blucher
10:13	13,108	737	1 HE		Blucher
7.5in/50 Secondary Total 556 shells 10 hits 1.8%					

Home Fleet, Achilles

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:43	9,955	-1,192	1 SAP		Nurnberg
08:45	7,656	-1,087	2 SAP		Nurnberg
08:46	6,626	-956	12 SAP		Nurnberg
08:47	5,750	-765	12 SAP		Nurnberg
08:48	5,110	-483	11 SAP		Nurnberg
08:49	4,801	-128	12 SAP		Nurnberg
08:50	10,741	-1,424	1 SAP		Kolberg
08:51	14,933	-1,232	1 HE		Westfalen
08:52	13,716	-1,163	1 HE		Westfalen
08:55	13,145	-988	1 HE		Yorck
08:56	9,652	-1,150	1 HE		Roos
08:57	8,644	-214	2 HE		Roos
08:58	8,475	29	6 HE		Roos
08:59	8,494	19	6 HE		Roos
09:00	8,503	9	5 HE		Roos
09:01	8,501	-1	6 HE		Roos
09:02	8,484	-78	5 AP		Roos
09:03	8,402	-97	5 AP		Roos
09:04	8,336	-82	6 AP		Roos
09:05	8,250	-100	4 AP		Roos
09:06	8,150	-100	5 AP		Roos
09:07	8,420	32	4 AP		Roos
09:08	8,432	24	4 AP		Roos
09:09	8,458	34	3 AP		Roos
09:10	8,504	35	4 AP		Roos
09:11	8,551	47	4 AP		Roos
09:12	8,576	-17	4 AP		Roos
09:13	8,542	-33	4 AP		Roos
09:14	8,492	-50	3 AP		Roos
09:15	8,443	-48	4 AP		Roos
09:16	8,395	-47	3 AP		Roos
09:17	8,348	-47	4 AP		Roos
09:18	8,300	-55	4 AP		Roos
09:19	8,245	-55	4 AP		Roos
09:20	8,191	-53	4 AP		Roos
09:21	8,138	-52	4 AP		Roos
09:22	8,086	-52	4 AP		Roos
09:23	8,034	-52	4 AP		Roos
09:24	7,972	-61	5 AP		Roos
09:25	7,912	-60	2 SAP		Roos
09:26	7,865	-47	3 SAP		Roos
09:27	7,818	-47	3 SAP		Roos
09:28	7,784	-34	3 SAP		Roos
09:29	7,781	-22	3 SAP		Roos
09:30	7,736	-34	3 SAP		Roos
09:31	7,691	-45	3 SAP	1 hit	Roos
09:32	7,710	278	4 SAP	rapid	Roos
09:33	7,980	330	3 SAP		Roos
09:34	8,297	275	3 SAP		Roos
09:35	8,566	269	3 SAP		Roos
09:36	8,836	269	2 SAP		Roos
09:37	9,099	263	2 SAP		Roos
09:38	9,245	137	2 SAP		Roos
09:39	9,402	146	3 SAP		Roos
09:40	9,548	138	2 SAP		Roos
09:41	9,671	130	2 SAP		Roos
09:42	9,827	131	2 SAP		Roos
09:43	9,978	137	3 SAP		Roos
09:44	10,123	134	4 SAP		Roos
09:45	10,256	134	3 SAP		Roos
09:46	10,291	141	2 SAP		Roos
09:47	10,312	-454	1 SAP		Roos
09:48	9,842	-588	2 SAP		Roos
09:49	10,336	-200	1 SAP		Nassau
09:50	10,137	-199	4 SAP		Nassau
09:51	9,938	-199	3 HE		Nassau

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Home Fleet, Achilles (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:52	9,754	-183	3 HE		Nassau
09:53	9,571	-183	4 HE		Nassau
09:54	9,388	-183	3 HE		Nassau
09:55	9,205	-182	4 HE		Nassau
09:56	9,022	-182	4 HE		Nassau
09:57	8,853	-169	3 HE		Nassau
09:58	8,684	-169	4 HE	1 hit	Nassau
09:59	8,515	-169	3 HE		Nassau
10:00	8,345	-169	4 HE		Nassau
10:01	8,176	-169	4 HE		Nassau
10:02	8,007	-169	5 HE		Nassau
10:04	8,292	146	5 AP		Nassau
10:05	8,471	207	6 AP		Nassau
10:06	7,469	540	4 AP		Roon
10:07	8,062	608	4 AP		Roon
10:08	8,691	653	1 HE		Roon
10:09	9,358	686	2 HE		Roon
10:10	10,086	732	1 HE		Roon
10:11	10,860	778	1 HE		Roon
10:18	15,039	608	1 HE		Posen
10:19	14,617	441	1 HE		Ostfriesland
9.2in/47 Primary Total			313 shells	2 hits	0.6%

Home Fleet, Achilles, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:43	9,955	-1,192	1 HE		Nurnberg
08:45	7,656	-1,087	2 HE		Nurnberg
08:46	6,626	-956	5 HE	1 hit	Nurnberg
08:47	5,750	-765	7 HE		Nurnberg
08:48	5,110	-483	7 HE		Nurnberg
08:49	4,801	-128	9 HE		Nurnberg
08:52	13,716	-1,163	1 HE		Westfalen
08:58	8,475	29	4 HE		Roos
08:59	8,494	19	3 HE		Roos
09:00	8,503	9	2 HE		Roos
09:01	8,501	-1	3 HE		Roos
09:02	8,484	-78	2 HE		Roos
09:03	8,402	-97	3 HE		Roos
09:04	8,336	-82	3 HE		Roos
09:05	8,250	-100	3 AP		Roos
09:06	8,150	-100	3 AP		Roos
09:07	8,420	32	3 AP		Roos
09:08	8,432	24	2 AP		Roos
09:09	8,458	34	3 AP		Roos
09:10	8,504	35	2 AP		Roos
09:11	8,551	47	3 AP		Roos
09:12	8,576	-17	2 AP		Roos
09:13	8,542	-33	3 AP	1 hit	Roos
09:14	8,492	-50	7 AP	rapid	Roos
09:15	8,443	-48	3 AP		Roos
09:16	8,395	-47	2 AP		Roos
09:17	8,348	-47	3 AP	1 hit	Roos
09:18	8,300	-55	7 AP	rapid	Roos
09:19	8,245	-55	3 AP		Roos
09:20	8,191	-53	2 AP		Roos
09:21	8,138	-52	2 AP		Roos
09:22	8,086	-52	3 AP		Roos
09:23	8,034	-52	3 AP		Roos
09:24	7,972	-61	2 AP		Roos
09:25	7,912	-60	3 AP		Roos
09:26	7,865	-47	3 AP		Roos
09:27	7,818	-47	3 AP		Roos
09:28	7,784	-34	3 AP		Roos
09:29	7,781	-22	3 AP		Roos
09:30	7,736	-34	3 AP		Roos
09:31	7,691	-45	3 AP		Roos
09:32	7,710	278	3 AP		Roos
09:33	7,980	330	3 AP		Roos
09:34	8,297	275	2 AP		Roos
09:35	8,566	269	2 AP		Roos
09:36	8,836	269	2 AP		Roos
09:37	9,099	263	3 AP		Roos
09:38	9,245	137	1 AP		Roos
09:39	9,402	146	3 AP		Roos
09:40	9,548	138	2 AP		Roos
09:41	9,671	130	2 AP		Roos
09:42	9,827	131	2 AP		Roos
09:43	9,978	137	3 AP		Roos
09:44	10,123	134	3 AP		Roos
09:45	10,256	134	2 AP		Roos
09:46	10,291	141	2 AP		Roos
09:47	10,312	-454	2 AP		Roos
09:48	9,842	-588	1 AP		Roos
09:49	10,336	-200	1 HE		Nassau
09:50	10,137	-199	4 HE		Nassau
09:51	9,938	-199	3 HE		Nassau
09:52	9,754	-183	3 HE		Nassau
09:53	9,571	-183	4 HE		Nassau
09:54	9,388	-183	3 HE		Nassau
09:55	9,205	-182	3 HE		Nassau
09:56	9,022	-182	4 HE		Nassau

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Home Fleet, Achilles, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:57	8,853	-169	4 HE		Nassau
09:58	8,684	-169	4 HE		Nassau
09:59	8,515	-169	3 HE		Nassau
10:00	8,345	-169	4 HE		Nassau
10:01	8,176	-169	4 HE		Nassau
10:02	8,007	-169	4 HE		Nassau
10:04	8,292	146	3 HE		Nassau
10:05	8,471	207	4 HE		Nassau
7.5in/50 Secondary Total			227 shells	3 hits	1.3%

Home Fleet, Cochrane

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:47	5,997	-864	13 SAP		Nurnberg
08:48	5,256	-617	12 SAP		Nurnberg
08:50	4,770	170	11 SAP	2 hits	Nurnberg
08:51	5,140	554	12 SAP		Nurnberg
08:52	4,755	-308	10 SAP	1 hit	Nurnberg
08:53	4,877	-70	12 SAP		Nurnberg
08:54	4,510	122	12 SAP		Nurnberg
08:55	4,709	453	12 SAP	1 hit	Nurnberg
08:56	5,216	475	11 SAP	1 hit	Nurnberg
08:57	5,031	-170	10 SAP		Nurnberg
08:58	10,619	-353	1 AP		Yorck
08:59	10,310	-744	1 AP		Yorck
09:00	8,872	-5	2 HE		Blucher
09:01	8,867	-19	1 HE		Blucher
09:02	8,919	53	2 HE		Blucher
09:03	8,946	-81	1 HE		Blucher
09:04	8,884	-84	8 HE		Blucher
09:05	9,116	-92	7 HE		Westfalen
09:06	9,024	-92	7 HE		Westfalen
09:07	8,922	-102	7 AP		Westfalen
09:08	8,925	80	6 AP	1 hit	Westfalen
09:09	9,005	80	12 AP	rapid	Westfalen
09:10	9,086	82	7 AP		Westfalen
09:11	9,168	84	7 AP		Westfalen
09:12	9,255	147	7 AP		Westfalen
09:13	9,415	-58	6 AP		Nassau
09:14	9,357	-55	7 AP		Nassau
09:15	9,302	-55	6 AP		Nassau
09:16	9,250	-52	7 AP		Nassau
09:17	9,200	-49	6 AP		Nassau
09:18	9,154	-47	7 AP		Nassau
09:19	9,110	-44	6 AP		Nassau
09:20	9,069	-41	6 AP		Nassau
09:21	9,030	-35	7 AP		Nassau
09:22	8,995	-32	6 AP		Nassau
09:23	8,963	-30	7 AP		Nassau
09:24	8,927	-39	7 AP		Nassau
09:25	8,889	-36	6 SAP		Nassau
09:26	8,853	-33	7 SAP		Nassau
09:27	8,821	-30	6 SAP		Nassau
09:28	8,794	-26	7 SAP		Nassau
09:29	8,770	-24	7 SAP		Nassau
09:30	8,752	-11	7 HE		Nassau
09:31	8,741	-9	8 HE		Nassau
09:32	8,732	-9	8 HE	1 hit	Nassau
09:33	8,722	166	10 HE	rapid	Nassau
09:34	8,878	319	6 HE		Nassau
09:35	8,504	491	2 HE		Blucher
09:36	8,960	269	1 HE		Blucher
09:37	9,221	266	6 HE		Blucher
09:38	9,486	264	7 HE		Blucher
09:39	9,782	168	6 HE		Blucher
09:40	10,397	80	2 HE		Nassau
09:41	10,481	44	2 HE		Nassau
09:42	10,170	130	1 HE		Blucher
09:43	10,297	127	6 HE		Blucher
09:44	10,436	147	5 HE		Blucher
09:45	10,593	171	6 HE		Blucher
09:46	10,658	154	6 HE		Blucher
09:47	10,196	-460	2 HE		Blucher
09:48	9,552	-655	1 HE		Blucher
09:49	10,529	-199	2 HE		Westfalen
09:50	10,330	-199	7 HE		Westfalen
10:04	8,136	203	1 HE		Westfalen
10:05	8,243	134	4 HE		Westfalen
10:06	6,867	492	3 AP		Yorck

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Home Fleet, Cochrane (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
10:07	7,569	599	2 AP	1 hit	Roon
10:20	15,102	516	1 HE		Oldenburg
9.2in/47	Primary	Total	414 shells	8 hits	1.9%

Home Fleet, Cochrane, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:47	5,997	-864	7 HE		Nurnberg
08:48	5,256	-617	8 HE	1 hit	Nurnberg
08:50	4,770	170	8 HE	1 hit	Nurnberg
08:51	5,140	554	8 HE		Nurnberg
08:52	4,755	-308	7 HE		Nurnberg
08:53	4,877	-70	8 HE		Nurnberg
08:54	4,510	122	8 HE		Nurnberg
08:55	4,709	453	8 HE		Nurnberg
08:56	5,216	475	6 HE	1 hit	Nurnberg
08:57	5,031	-170	8 HE		Nurnberg
08:58	10,619	-353	1 AP		Yorck
08:59	10,310	-744	1 AP		Yorck
09:00	8,872	-5	1 HE		Blucher
09:01	8,867	-19	4 HE		Blucher
09:02	8,919	53	2 HE		Blucher
09:03	8,946	-81	1 HE		Blucher
09:04	8,884	-84	4 HE		Blucher
09:05	9,116	-92	1 HE		Westfalen
09:06	9,024	-92	4 HE		Westfalen
09:07	8,922	-102	3 HE		Westfalen
09:08	8,925	80	4 HE		Westfalen
09:09	9,005	80	3 HE		Westfalen
09:10	9,086	82	4 HE		Westfalen
09:11	9,168	84	3 HE		Westfalen
09:12	9,255	147	3 HE		Westfalen
09:13	9,415	-58	1 HE		Nassau
09:14	9,357	-55	4 HE		Nassau
09:15	9,302	-55	3 HE	1 hit	Nassau
09:16	9,250	-52	8 HE	rapid	Nassau
09:17	9,200	-49	3 HE		Nassau
09:18	9,154	-47	3 HE		Nassau
09:19	9,110	-44	3 HE		Nassau
09:20	9,069	-41	3 HE		Nassau
09:21	9,030	-35	3 HE		Nassau
09:22	8,995	-32	3 HE		Nassau
09:23	8,963	-30	3 HE		Nassau
09:24	8,927	-39	3 HE		Nassau
09:25	8,889	-36	3 HE		Nassau
09:26	8,853	-33	4 HE		Nassau
09:27	8,821	-30	3 HE		Nassau
09:28	8,794	-26	3 HE		Nassau
09:29	8,770	-24	4 HE		Nassau
09:30	8,752	-11	4 HE		Nassau
09:31	8,741	-9	4 HE		Nassau
09:32	8,732	-9	4 HE	1 hit	Nassau
09:33	8,722	166	10 HE	rapid	Nassau
09:34	8,878	319	3 HE		Nassau
09:35	8,504	491	2 AP		Blucher
09:36	8,960	269	1 AP		Blucher
09:37	9,221	266	1 AP		Blucher
09:38	9,486	264	4 AP		Blucher
09:39	9,782	168	3 AP		Blucher
09:40	10,397	80	1 HE		Nassau
09:41	10,481	44	3 HE		Nassau
09:42	10,170	130	2 HE		Blucher
09:43	10,297	127	3 HE		Blucher
09:44	10,436	147	2 HE		Blucher
09:45	10,593	171	3 HE		Blucher
09:46	10,658	154	3 HE		Blucher
09:47	10,196	-460	1 AP		Blucher
09:48	9,552	-655	2 AP		Blucher
09:49	10,529	-199	2 HE		Westfalen
09:50	10,330	-199	3 HE		Westfalen
09:51	10,132	-197	3 HE		Westfalen
09:52	9,949	-183	4 HE		Westfalen
09:53	9,766	-183	3 HE		Westfalen

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Home Fleet, Cochrane, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
09:54	9,583	-182	3 HE			Westfalen
09:55	9,400	-182	3 HE			Westfalen
09:56	9,218	-182	4 HE			Westfalen
09:57	9,049	-169	3 HE			Westfalen
09:58	8,879	-169	3 HE			Westfalen
09:59	8,710	-169	4 HE			Westfalen
10:00	8,541	-169	4 HE			Westfalen
10:01	8,371	-169	4 HE			Westfalen
10:02	8,202	-169	4 HE		1 hit	Westfalen
10:03	8,033	112	8 HE	rapid		Westfalen
10:04	8,136	203	1 HE			Westfalen
10:05	8,243	134	3 HE			Westfalen
7.5in/50 Secondary Total			287 shells		6 hits	2.1%

Home Fleet, Natal

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
08:48	14,578	-1,394	1 SAP			Kolberg
08:52	15,199	-1,232	1 HE			Rheinland
08:53	12,936	-1,256	1 HE			Nassau
08:54	13,990	-1,168	1 HE			Rheinland
08:56	12,838	-1,187	1 HE			Yorck
08:57	11,623	-1,182	1 HE			Yorck
08:58	5,390	-140	6 SAP			Kolberg
08:59	5,697	263	4 SAP			Kolberg
09:00	6,076	380	9 SAP			Kolberg
09:01	6,408	418	8 SAP		1 hit	Kolberg
09:02	6,795	461	9 SAP			Kolberg
09:03	7,370	632	7 SAP			Kolberg
09:04	8,022	627	1 SAP			Kolberg
09:05	8,694	715	2 SAP			Kolberg
09:07	10,195	721	1 SAP			Kolberg
09:08	9,125	-109	2 HE			Nassau
09:09	8,779	25	1 HE			Roon
09:10	8,819	27	1 HE			Roon
09:11	8,861	41	2 HE			Roon
09:12	8,929	150	1 HE			Roon
09:13	9,062	133	1 HE			Roon
09:14	9,028	-57	1 HE			Roon
09:15	8,971	-57	5 HE			Roon
09:16	8,915	-56	6 HE			Roon
09:17	8,859	-56	5 HE			Roon
09:18	8,803	-63	5 HE			Roon
09:19	8,740	-63	5 HE			Roon
09:20	9,173	-49	1 HE			Nassau
09:21	9,126	-47	2 HE			Nassau
09:22	9,082	-44	5 HE			Nassau
09:23	8,972	-30	6 HE			Westfalen
09:24	8,942	-27	7 AP			Westfalen
09:25	8,906	-36	6 AP		1 hit	Westfalen
09:26	8,871	-33	10 AP	rapid	1 hit	Westfalen
09:27	8,838	-30	9 AP	rapid		Westfalen
09:28	8,811	-26	7 AP			Westfalen
09:29	8,787	-24	7 AP			Westfalen
09:30	8,764	-22	7 AP			Westfalen
09:31	8,750	-9	7 AP			Westfalen
09:32	8,740	-9	11 AP	rapid	1 hit	Westfalen
09:33	8,731	109	12 AP	rapid		Westfalen
09:34	8,833	224	6 AP			Westfalen
09:35	9,043	263	8 AP			Westfalen
09:36	9,355	256	7 AP			Nassau
09:37	9,596	242	7 AP			Nassau
09:38	9,828	233	8 AP			Nassau
09:39	10,076	172	5 AP			Nassau
09:40	10,249	134	6 SAP			Nassau
09:41	10,387	122	7 SAP			Nassau
09:42	10,068	137	1 SAP			Roon
09:43	10,231	155	1 SAP			Roon
09:44	10,397	161	5 SAP			Roon
09:45	10,560	163	4 SAP			Roon
09:46	10,724	166	7 SAP			Roon
09:47	10,755	-451	1 SAP			Roon
09:48	10,168	-612	2 SAP			Roon
09:49	10,723	-199	1 SAP			Rheinland
09:50	10,524	-199	7 SAP			Rheinland
09:51	10,327	-197	7 SAP			Rheinland
09:52	10,144	-183	6 SAP			Rheinland
09:53	9,961	-182	7 SAP			Rheinland
09:54	9,778	-182	6 SAP			Rheinland
09:55	9,596	-182	8 SAP			Rheinland
09:56	9,414	-181	7 SAP			Rheinland
09:57	9,245	-169	7 SAP			Rheinland
09:58	9,075	-169	12 SAP	rapid		Rheinland

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Home Fleet, Natal (continued)

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
09:59	8,906	-169	10 HE	rapid	1 hit	Rheinland
10:00	8,737	-169	8 HE		1 hit	Rheinland
10:01	8,567	-169	8 HE		1 hit	Rheinland
10:02	8,398	-169	9 HE		2 hits	Rheinland
10:03	8,228	5	9 HE		1 hit	Rheinland
10:04	8,246	125	8 HE		1 hit	Rheinland
10:06	7,960	257	7 AP			Nassau
10:07	8,258	351	7 AP			Nassau
10:08	8,641	439	6 AP			Nassau
10:09	9,101	513	4 AP			Nassau
10:10	9,632	586	1 AP			Nassau
10:11	10,232	649	2 AP			Nassau
10:12	10,833	647	1 AP			Nassau
10:13	11,429	642	1 AP			Nassau
10:14	12,046	627	1 AP			Nassau
10:15	12,681	643	1 AP			Nassau
10:21	15,104	501	1 HE			Oldenburg
10:22	14,915	407	1 HE			Ostfriesland
9.2in/47 Primary	Total		413 shells		11 hits	2.7%

Home Fleet, Natal, Secondary

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
08:53	12,936	-1,256	1 HE			Nassau
08:59	5,697	263	2 HE			Kolberg
09:00	6,076	380	4 HE			Kolberg
09:01	6,408	418	5 HE			Kolberg
09:02	6,795	461	4 HE			Kolberg
09:03	7,370	632	4 HE			Kolberg
09:04	8,022	627	2 HE			Kolberg
09:05	8,694	715	1 HE			Kolberg
09:06	9,479	817	1 HE			Kolberg
09:08	9,125	-109	2 HE			Nassau
09:09	8,779	25	1 HE			Roon
09:10	8,819	27	1 HE			Roon
09:11	8,861	41	1 HE			Roon
09:12	8,929	150	2 HE			Roon
09:13	9,062	133	1 HE			Roon
09:14	9,028	-57	1 HE			Roon
09:15	8,971	-57	2 HE			Roon
09:16	8,915	-56	3 HE			Roon
09:17	8,859	-56	2 HE			Roon
09:18	8,803	-63	2 HE			Roon
09:19	8,740	-63	3 HE			Roon
09:20	9,173	-49	1 HE			Nassau
09:21	9,126	-47	2 HE			Nassau
09:22	9,082	-44	4 HE			Nassau
09:23	8,972	-30	1 HE			Westfalen
09:24	8,942	-27	3 HE			Westfalen
09:25	8,906	-36	3 HE			Westfalen
09:26	8,871	-33	3 HE			Westfalen
09:27	8,838	-30	3 HE		1 hit	Westfalen
09:28	8,811	-26	6 HE	rapid		Westfalen
09:29	8,787	-24	9 HE	rapid	1 hit	Westfalen
09:30	8,764	-22	3 HE			Westfalen
09:31	8,750	-9	3 HE		1 hit	Westfalen
09:32	8,740	-9	9 HE	rapid		Westfalen
09:33	8,731	109	3 HE			Westfalen
09:34	8,833	224	4 HE			Westfalen
09:35	9,043	263	3 HE		1 hit	Westfalen
09:36	9,355	256	4 HE		1 hit	Nassau
09:37	9,596	242	10 HE	rapid		Nassau
09:38	9,828	233	3 HE			Nassau
09:39	10,076	172	3 HE			Nassau
09:40	10,249	134	3 HE			Nassau
09:41	10,387	122	3 HE			Nassau
09:42	10,068	137	1 AP			Roon
09:43	10,231	155	1 AP			Roon
09:44	10,397	161	1 AP			Roon
09:45	10,560	163	2 AP			Roon
09:46	10,724	166	4 AP			Roon
09:47	10,755	-451	1 AP			Roon
09:48	10,168	-612	1 AP			Roon
09:49	10,723	-199	2 HE			Rheinland
09:50	10,524	-199	3 HE			Rheinland
09:51	10,327	-197	3 HE			Rheinland
09:52	10,144	-183	3 HE			Rheinland
09:53	9,961	-182	3 HE			Rheinland
09:54	9,778	-182	4 HE			Rheinland
09:55	9,596	-182	3 HE			Rheinland
09:56	9,414	-181	4 HE		1 hit	Rheinland
09:57	9,245	-169	10 HE	rapid	2 hits	Rheinland
09:58	9,075	-169	10 HE	rapid		Rheinland
09:59	8,906	-169	3 HE			Rheinland
10:00	8,737	-169	4 HE			Rheinland
10:01	8,567	-169	4 HE		1 hit	Rheinland
10:02	8,398	-169	9 HE	rapid		Rheinland
10:03	8,228	5	10 HE	rapid		Rheinland
10:04	8,246	125	4 HE			Rheinland

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Home Fleet, Natal, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
10:06	7,960	257	4 HE		Nassau
10:07	8,258	351	4 HE		Nassau
10:08	8,641	439	4 HE		Nassau
10:09	9,101	513	3 HE		Nassau
10:10	9,632	586	3 HE		Nassau
10:11	10,232	649	3 HE		Nassau
7.5in/50	Secondary	Total	242 shells	9 hits	3.7%

Home Fleet, Liverpool

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:45	13,231	-1,089	2 SAP		Kolberg
08:46	12,072	-1,054	1 SAP		Kolberg
08:47	10,880	-1,180	1 SAP		Kolberg
08:48	9,678	-1,184	2 SAP		Kolberg
08:49	11,973	-1,261	1 HE		Blucher
08:50	10,649	-1,324	2 HE		Blucher
08:51	9,328	-1,320	2 HE		Blucher
08:52	8,254	-1,073	2 HE		Blucher
08:53	7,181	-1,073	2 HE		Blucher
08:54	6,081	-1,100	3 HE		Blucher
08:55	3,949	-232	4 SAP		Kolberg
08:56	2,803	-992	4 SAP		Kolberg
08:57	2,762	-32	2 SAP		Kolberg
08:58	2,751	41	4 SAP	1 hit	Kolberg
08:59	2,725	29	4 SAP		Kolberg
09:00	2,571	64	8 SAP		Kolberg
09:01	3,648	1,157	4 SAP		Kolberg
09:02	4,765	1,148	3 SAP		Kolberg
09:03	5,972	890	3 HE		Blucher
09:04	6,888	926	2 HE		Blucher
09:05	7,820	938	2 HE		Blucher
09:06	9,109	1,289	1 HE		Blucher
09:07	9,757	648	2 HE		Blucher
09:08	9,723	-34	1 HE		Blucher
09:09	8,882	108	1 HE		Yorck
09:10	9,711	-12	2 HE		Blucher
09:11	9,699	-12	1 HE		Blucher
09:12	9,612	-88	1 HE		Blucher
09:13	9,506	-105	1 HE		Blucher
09:14	9,385	-122	2 HE		Blucher
09:15	9,263	-121	1 HE		Blucher
09:16	9,143	-121	3 HE		Blucher
09:17	9,013	-130	3 HE	1 hit	Blucher
09:18	8,874	-139	8 HE	rapid	Blucher
09:19	8,735	-138	3 HE		Blucher
09:20	8,598	-138	3 HE		Blucher
09:21	8,461	-136	3 HE		Blucher
09:22	8,335	-126	4 HE		Blucher
09:23	8,220	-115	4 HE	1 hit	Blucher
09:24	8,324	-144	8 HE	rapid 1 hit	Blucher
09:25	8,151	-155	9 HE	rapid 1 hit	Blucher
09:26	7,996	-152	4 HE		Blucher
09:27	7,844	-150	5 HE		Blucher
09:28	7,695	-147	4 HE		Blucher
09:29	7,548	-144	5 HE	2 hits	Blucher
09:30	7,405	-142	7 HE	rapid	Blucher
09:31	7,265	-139	4 HE	1 hit	Blucher
09:32	7,439	178	6 HE	rapid	Blucher
09:33	7,607	173	5 HE		Blucher
09:34	7,781	176	5 HE		Blucher
09:35	7,864	195	4 HE		Roos
09:36	8,062	202	4 HE		Roos
09:37	8,207	146	3 HE		Roos
09:38	8,345	138	4 HE		Roos
09:39	8,551	127	4 HE		Blucher
09:40	8,667	116	3 HE		Blucher
09:41	8,784	118	4 HE		Blucher
09:42	8,735	95	4 HE		Yorck
09:43	8,832	98	4 SAP		Yorck
09:44	8,930	100	3 SAP		Yorck
09:45	9,031	102	4 SAP		Yorck
09:46	9,135	87	3 SAP		Yorck
09:47	9,226	94	4 SAP	1 hit	Yorck
09:48	9,322	-465	7 SAP	rapid	Yorck
09:49	8,906	-554	2 SAP		Yorck
09:50	7,130	-528	5 SAP		Blucher

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Home Fleet, Liverpool (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:51	6,604	-525	4 SAP		Blucher
09:52	6,156	-202	7 SAP		Blucher
09:53	6,000	-190	6 SAP		Blucher
09:54	5,822	-178	7 SAP		Blucher
09:55	5,645	-178	6 SAP	1 hit	Blucher
09:56	5,468	-176	6 SAP		Blucher
09:57	5,293	-175	5 SAP		Blucher
09:58	5,131	-169	8 SAP	1 hit	Blucher
09:59	4,962	-169	8 SAP		Blucher
10:00	4,794	-169	8 SAP		Blucher
10:01	4,625	-169	8 SAP	1 hit	Blucher
10:02	4,977	362	1 SAP		Blucher
6in/50	Primary	Total	300 shells	12 hits	4%

Home Fleet, Liverpool, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:45	13,231	-1,089	1 HE		Kolberg
08:46	12,072	-1,054	1 HE		Kolberg
08:47	10,880	-1,180	1 HE		Kolberg
08:48	9,678	-1,184	2 HE		Kolberg
08:49	11,973	-1,261	1 HE		Blucher
08:50	10,649	-1,324	1 HE		Blucher
08:51	9,328	-1,320	2 HE		Blucher
08:52	8,254	-1,073	7 HE		Blucher
08:53	7,181	-1,073	10 HE		Blucher
08:54	6,081	-1,100	11 HE	1 hit	Blucher
08:55	3,949	-232	16 AP		Kolberg
08:56	2,803	-992	15 AP		Kolberg
08:57	2,762	-32	7 AP		Kolberg
08:58	2,751	41	15 AP		Kolberg
08:59	2,725	29	5 AP		Kolberg
09:00	2,571	64	12 AP		Kolberg
09:01	3,648	1,157	12 AP		Kolberg
09:02	4,765	1,148	15 AP		Kolberg
09:03	5,972	890	2 HE		Blucher
09:04	6,888	926	7 HE		Blucher
09:05	7,820	938	6 HE		Blucher
09:06	9,109	1,289	2 HE		Blucher
09:07	9,757	648	1 HE		Blucher
09:08	9,723	-34	1 HE		Blucher
09:09	8,882	108	1 HE		Yorck
09:10	9,711	-12	1 HE		Blucher
09:11	9,699	-12	1 HE		Blucher
09:12	9,612	-88	1 HE		Blucher
09:13	9,506	-105	5 HE		Blucher
09:14	9,385	-122	1 HE		Blucher
09:15	9,263	-121	5 HE		Blucher
09:16	9,143	-121	5 HE		Blucher
09:17	9,013	-130	5 HE		Blucher
09:18	8,874	-139	3 HE	1 hit	Blucher
09:19	8,735	-138	6 HE		Blucher
09:20	8,598	-138	5 HE		Blucher
09:21	8,461	-136	5 HE		Blucher
09:22	8,335	-126	5 HE		Blucher
09:23	8,220	-115	5 HE	1 hit	Blucher
09:24	8,324	-144	4 HE		Blucher
09:25	8,151	-155	6 HE		Blucher
09:26	7,996	-152	6 HE		Blucher
09:27	7,844	-150	6 HE		Blucher
09:28	7,695	-147	7 HE		Blucher
09:29	7,548	-144	8 HE		Blucher
09:30	7,405	-142	8 HE		Blucher
09:31	7,265	-139	9 HE		Blucher
09:32	7,439	178	9 HE		Blucher
09:33	7,607	173	10 HE		Blucher
09:34	7,781	176	10 HE		Blucher
09:35	7,864	195	2 HE		Roos
09:36	8,062	202	9 HE		Roos
09:37	8,207	146	9 HE		Roos
09:38	8,345	138	7 HE		Roos
09:39	8,551	127	1 HE		Blucher
09:40	8,667	116	7 HE		Blucher
09:41	8,784	118	8 HE		Blucher
09:42	8,735	95	1 HE		Yorck
09:43	8,832	98	7 HE		Yorck
09:44	8,930	100	8 HE		Yorck
09:45	9,031	102	8 HE		Yorck
09:46	9,135	87	7 HE		Yorck
09:47	9,226	94	8 HE		Yorck
09:48	9,322	-465	6 HE		Yorck
09:49	8,906	-554	1 HE		Yorck
09:50	7,130	-528	2 HE		Blucher

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Home Fleet, Liverpool, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:51	6,604	-525	11 HE		Blucher
09:52	6,156	-202	12 HE		Blucher
09:53	6,000	-190	11 HE		Blucher
09:54	5,822	-178	15 HE		Blucher
09:55	5,645	-178	12 HE		Blucher
09:56	5,468	-176	16 HE	1 hit	Blucher
09:57	5,293	-175	16 HE		Blucher
09:58	5,131	-169	14 HE		Blucher
09:59	4,962	-169	15 HE	3 hits	Blucher
10:00	4,794	-169	18 HE	2 hits	Blucher
10:01	4,625	-169	19 HE	3 hits	Blucher
10:02	4,977	362	1 HE		Blucher
10:03	5,251	317	10 HE	1 hit	Blucher
10:04	5,642	427	11 HE		Blucher
10:05	6,566	979	2 AP		Kolberg
10:06	7,559	1,033	2 AP		Kolberg
10:08	9,860	1,206	1 AP		Kolberg
10:09	11,081	1,234	1 AP		Kolberg
10:10	9,730	766	1 HE		Blucher
10:11	10,500	778	1 HE		Blucher
10:12	11,281	783	1 HE		Blucher
10:13	12,070	794	1 HE		Blucher
10:14	12,866	799	1 HE		Blucher
10:15	13,393	799	1 HE		Roon
4in/45	Secondary	Total	574 shells	13 hits	2.3%

Home Fleet, Bristol

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:37	13,739	-1,036	1 SAP		Nurnberg
08:38	12,651	-988	2 SAP		Nurnberg
08:47	13,538	-1,199	1 HE		Blucher
08:48	12,294	-1,240	1 HE		Blucher
08:49	11,780	-1,272	1 HE		Roon
08:50	10,514	-404	1 HE		Roon
08:51	9,578	-344	2 HE		Roon
08:53	5,115	0	7 SAP		Kolberg
08:54	5,330	820	3 SAP		Kolberg
08:55	8,953	-63	1 SAP		Augsburg
08:57	5,400	-1,199	1 SAP		Kolberg
08:58	4,317	-1,088	4 SAP		Kolberg
08:59	3,474	-639	9 HE		Blucher
09:00	3,332	497	2 HE	1 hit	Roon
09:01	3,839	678	3 HE		Roon
09:02	4,605	868	4 HE		Blucher
09:03	5,495	934	3 HE		Blucher
09:04	6,419	963	2 HE		Blucher
09:05	7,157	945	1 HE		Roon
09:06	8,108	955	2 HE		Roon
09:07	9,278	648	1 HE		Roon
09:08	9,913	-37	1 HE		Blucher
09:10	9,711	-24	1 HE		Roon
09:11	9,886	-13	2 HE		Blucher
09:12	9,917	-89	1 HE		Blucher
09:13	9,543	-105	1 HE		Roon
09:14	9,685	-125	2 HE		Blucher
09:15	9,560	-125	2 HE		Blucher
09:16	9,436	-123	2 HE		Blucher
09:17	9,057	-130	1 HE		Roon
09:18	9,168	-141	3 HE		Blucher
09:19	9,026	-141	3 HE		Blucher
09:20	8,650	-138	2 HE		Roon
09:21	8,745	-140	2 HE		Blucher
09:22	8,608	-130	3 HE		Blucher
09:23	8,258	-115	2 HE		Roon
09:24	8,134	-123	1 HE		Roon
09:25	8,430	-162	1 HE	1 hit	Blucher
09:26	8,268	-160	2 HE	rapid	Blucher
09:27	8,109	-157	2 HE		Blucher
09:28	7,687	-107	2 HE		Roon
09:29	7,596	-120	1 HE		Roon
09:30	7,453	-130	4 HE		Roon
09:31	7,313	-139	4 HE		Roon
09:32	7,276	178	3 HE		Roon
09:33	7,608	157	1 HE		Blucher
09:34	7,768	165	4 HE		Blucher
09:35	7,606	226	4 HE		Yorck
09:36	7,832	226	3 HE		Yorck
09:37	8,270	129	1 HE		Blucher
09:38	8,400	129	4 HE		Blucher
09:39	8,438	127	3 HE		Roon
09:40	8,562	124	2 HE		Roon
09:41	8,680	118	4 HE		Roon
09:43	9,054	119	2 HE		Blucher
09:44	9,173	119	2 HE		Blucher
09:45	9,293	120	1 HE		Blucher
09:46	9,424	133	3 HE		Blucher
09:47	8,927	-497	2 HE		Blucher
09:48	8,264	-628	2 HE		Blucher
09:49	7,692	-595	1 HE		Blucher
09:50	7,604	-533	3 HE		Roon
09:51	7,072	-530	6 HE		Roon
09:52	6,202	-189	5 HE		Blucher
09:53	6,329	-243	6 HE		Roon
09:54	5,876	-170	6 HE		Blucher

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Home Fleet, Bristol (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:55	5,706	-169	6 HE		Blucher
09:56	5,537	-169	6 HE		Blucher
09:57	5,370	-167	6 HE		Blucher
09:58	5,329	-169	6 HE	1 hit	Roon
09:59	6,555	-392	2 SAP		Kolberg
10:00	6,163	-390	5 SAP		Kolberg
10:01	5,776	-384	7 SAP		Kolberg
10:02	5,407	-366	6 SAP	1 hit	Kolberg
10:03	5,397	119	1 SAP rapid		Kolberg
10:04	5,311	41	3 SAP		Kolberg
10:05	6,176	936	2 SAP		Kolberg
10:06	6,747	971	2 SAP		Augsburg
10:07	7,809	1,100	1 SAP		Augsburg
10:08	8,963	1,174	1 SAP		Augsburg
10:09	10,161	1,215	1 SAP		Augsburg
10:10	9,020	746	1 SAP		Roon
10:11	9,771	759	1 SAP		Roon
10:12	10,537	772	1 SAP		Roon
10:14	11,848	778	1 SAP		Yorck
6in/50	Primary	Total	224 shells	4 hits	1.8%

Home Fleet, Bristol, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:38	12,651	-988	1 HE		Nurnberg
08:44	13,347	-1,262	1 HE		Kolberg
08:48	12,294	-1,240	1 HE		Blucher
08:49	11,780	-1,272	1 HE		Roon
08:51	9,578	-344	2 HE		Roon
08:53	5,115	0	15 HE		Kolberg
08:54	5,330	820	10 AP		Kolberg
08:55	8,953	-63	1 HE		Augsburg
08:57	5,400	-1,199	1 HE		Kolberg
08:58	4,317	-1,088	4 HE		Kolberg
08:59	3,474	-639	17 HE		Blucher
09:00	3,332	497	7 HE	1 hit	Roon
09:01	3,839	678	6 HE		Roon
09:02	4,605	868	3 HE		Blucher
09:03	5,495	934	3 HE		Blucher
09:04	6,419	963	9 HE		Blucher
09:05	7,157	945	2 HE		Roon
09:06	8,108	955	1 HE		Roon
09:07	9,278	648	1 HE		Roon
09:08	9,913	-37	1 HE		Blucher
09:10	9,711	-24	1 HE		Roon
09:11	9,886	-13	1 HE		Blucher
09:12	9,917	-89	1 HE		Blucher
09:13	9,543	-105	1 HE		Roon
09:14	9,685	-125	1 HE		Blucher
09:15	9,560	-125	5 HE		Blucher
09:16	9,436	-123	4 HE		Blucher
09:17	9,057	-130	1 HE		Roon
09:18	9,168	-141	1 HE		Blucher
09:19	9,026	-141	6 HE		Blucher
09:20	8,650	-138	1 HE		Roon
09:21	8,745	-140	1 HE		Blucher
09:22	8,608	-130	4 HE		Blucher
09:23	8,258	-115	1 HE		Roon
09:24	8,134	-123	2 HE		Roon
09:25	8,430	-162	1 HE		Blucher
09:26	8,268	-160	1 HE		Blucher
09:27	8,109	-157	1 HE		Blucher
09:28	7,687	-107	1 HE		Roon
09:29	7,596	-120	7 HE		Roon
09:30	7,453	-130	5 HE	1 hit	Roon
09:31	7,313	-139	7 HE		Roon
09:32	7,276	178	6 HE		Roon
09:33	7,608	157	2 HE		Blucher
09:34	7,768	165	8 HE		Blucher
09:35	7,606	226	2 HE		Yorck
09:36	7,832	226	8 HE		Yorck
09:37	8,270	129	1 HE		Blucher
09:38	8,400	129	8 HE		Blucher
09:39	8,438	127	2 HE		Roon
09:40	8,562	124	7 HE		Roon
09:41	8,680	118	7 HE		Roon
09:42	12,328	-128	1 AP		Kolberg
09:43	9,054	119	1 HE		Blucher
09:44	9,173	119	8 HE		Blucher
09:45	9,293	120	7 HE		Blucher
09:46	9,424	133	6 HE		Blucher
09:47	8,927	-497	1 HE		Blucher
09:48	8,264	-628	2 HE		Blucher
09:49	7,692	-595	2 HE		Blucher
09:50	7,604	-533	1 HE		Roon
09:51	7,072	-530	11 HE		Roon
09:52	6,202	-189	13 HE		Blucher
09:53	6,329	-243	14 HE		Roon
09:54	5,876	-170	14 HE		Blucher
09:55	5,706	-169	14 HE	1 hit	Blucher

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Home Fleet, Bristol, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:56	5,537	-169	15 HE		Blucher
09:57	5,370	-167	14 HE		Blucher
09:58	5,329	-169	14 HE	1 hit	Roon
09:59	6,555	-392	2 AP	1 hit	Kolberg
10:00	6,163	-390	13 AP		Kolberg
10:01	5,776	-384	13 AP		Kolberg
10:02	5,407	-366	13 AP		Kolberg
10:03	5,397	119	1 AP		Kolberg
10:04	5,311	41	6 AP		Kolberg
10:05	6,176	936	1 AP		Kolberg
10:06	6,747	971	2 HE		Augsburg
10:07	7,809	1,100	1 HE		Augsburg
10:08	8,963	1,174	1 HE		Augsburg
10:09	10,161	1,215	1 HE		Augsburg
10:10	9,020	746	1 HE		Roon
10:11	9,771	759	1 HE		Roon
10:12	10,537	772	1 HE		Roon
10:14	11,848	778	1 HE		Yorck
4in/45	Secondary	Total	388 shells	5 hits	1.3%

Home Fleet, Gloucester

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:35	13,601	-1,187	1 SAP		Nurnberg
08:36	12,283	-1,220	2 SAP		Nurnberg
08:48	4,483	1,298	4 SAP		Nurnberg
08:50	13,323	-1,244	1 HE		Yorck
08:51	12,051	-1,272	1 HE		Yorck
08:52	8,565	-1,266	2 HE		Blucher
08:53	9,665	-1,286	1 SAP		Augsburg
08:54	1,302	-1,221	5 SAP	2 hits	Kolberg
08:55	9,598	526	2 SAP		Nurnberg
08:56	10,162	261	1 SAP		Nurnberg
08:57	5,405	-839	7 SAP		Augsburg
08:58	4,581	-1,079	6 SAP		Augsburg
08:59	3,488	-1,188	8 SAP	2 hits	Augsburg
09:00	2,323	-687	8 SAP		Augsburg
09:01	1,780	217	5 SAP		Augsburg
09:02	3,560	800	3 HE		Roon
09:03	4,398	816	4 HE		Roon
09:04	5,313	914	3 HE		Roon
09:05	5,577	816	3 HE		Yorck
09:06	7,184	937	2 HE		Roon
09:07	8,477	942	1 HE		Roon
09:08	9,349	786	1 HE		Roon
09:09	11,273	458	1 SAP		Augsburg
09:10	9,257	58	1 HE		Yorck
09:11	10,080	14	1 HE		Roon
09:12	10,396	82	1 HE		Blucher
09:13	9,361	-39	1 HE		Yorck
09:14	10,032	-127	1 HE		Roon
09:15	10,198	-130	2 HE		Blucher
09:16	10,068	-130	2 HE		Blucher
09:17	9,939	-128	2 HE		Blucher
09:18	9,802	-147	3 HE		Blucher
09:19	9,382	-144	1 HE		Roon
09:20	8,329	-126	2 HE		Yorck
09:21	9,075	-163	1 HE		Roon
09:22	8,953	-122	1 HE		Roon
09:23	7,988	-121	2 HE		Yorck
09:24	7,876	-111	3 HE		Yorck
09:25	7,765	-109	4 HE		Yorck
09:26	7,665	-100	4 HE		Yorck
09:27	8,323	-133	1 HE		Roon
09:28	7,443	-109	4 HE		Yorck
09:29	7,334	-109	4 HE		Yorck
09:30	7,234	-100	5 HE		Yorck
09:31	7,935	-197	2 HE		Blucher
09:32	7,776	-157	1 HE		Blucher
09:33	7,411	19	2 HE		Roon
09:34	7,560	153	5 HE		Roon
09:36	8,043	151	1 HE		Blucher
09:37	8,048	208	4 HE		Roon
09:38	8,197	150	4 HE		Roon
09:39	8,219	210	3 HE	1 hit	Yorck
09:40	8,432	186	10 HE	rapid	Yorck
09:41	8,576	132	3 HE		Yorck
09:43	8,969	135	1 HE		Roon
09:44	9,088	119	2 HE		Roon
09:45	9,375	126	1 HE		Blucher
09:46	9,515	142	2 HE		Blucher
09:47	8,964	-483	2 HE		Blucher
09:48	8,816	-562	1 HE		Roon
09:49	8,215	-542	4 HE		Roon
09:50	8,407	-596	2 HE		Yorck
09:51	7,813	-592	4 HE		Yorck
09:52	7,260	-500	5 HE		Yorck
09:53	6,824	-415	5 HE		Yorck
09:54	6,438	-340	6 HE		Yorck

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Home Fleet, Gloucester (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:55	6,242	-195	6 HE		Yorck
09:56	6,035	-206	6 HE	1 hit	Yorck
09:57	5,819	-213	5 HE		Yorck
09:58	5,604	-212	6 HE		Yorck
09:59	6,757	-390	2 SAP		Augsburg
10:00	6,368	-387	6 SAP		Augsburg
10:01	5,983	-381	5 SAP		Augsburg
10:02	5,616	-364	6 SAP	1 hit	Augsburg
10:03	5,266	-36	4 SAP rapid		Augsburg
10:04	5,251	-13	1 SAP		Augsburg
10:05	5,476	825	6 SAP		Augsburg
10:06	6,350	929	2 SAP		Augsburg
10:07	7,039	840	2 SAP		Stuttgart
10:08	7,949	906	1 SAP		Stuttgart
10:09	8,939	1,026	1 SAP		Stuttgart
10:10	8,338	716	2 SAP		Yorck
10:11	9,066	739	2 SAP		Yorck
10:12	9,813	753	1 SAP		Yorck
10:13	14,051	384	1 SAP		Kolberg
6in/50	Primary	Total	253 shells	7 hits	2.8%

Home Fleet, Gloucester, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:36	12,283	-1,220	2 HE		Nurnberg
08:48	4,483	1,298	3 HE		Nurnberg
08:50	13,323	-1,244	1 HE		Yorck
08:51	12,051	-1,272	1 HE		Yorck
08:52	8,565	-1,266	1 HE		Blucher
08:53	9,665	-1,286	2 HE		Augsburg
08:54	1,302	-1,221	19 HE	3 hits	Kolberg
08:55	9,598	526	1 AP		Nurnberg
08:56	10,162	261	1 AP		Nurnberg
08:57	5,405	-839	16 HE		Augsburg
08:58	4,581	-1,079	11 HE		Augsburg
08:59	3,488	-1,188	16 HE		Augsburg
09:00	2,323	-687	21 AP		Augsburg
09:01	1,780	217	12 AP		Augsburg
09:02	3,560	800	4 HE		Roon
09:03	4,398	816	3 HE		Roon
09:04	5,313	914	11 HE		Roon
09:05	5,577	816	2 HE		Yorck
09:06	7,184	937	2 HE		Roon
09:07	8,477	942	1 HE		Roon
09:08	9,349	786	1 HE		Roon
09:10	9,257	58	1 HE		Yorck
09:11	10,080	14	1 HE		Roon
09:12	10,396	82	1 HE		Blucher
09:13	9,361	-39	1 HE		Yorck
09:14	10,032	-127	1 HE		Roon
09:15	10,198	-130	1 HE		Blucher
09:16	10,068	-130	1 HE		Blucher
09:17	9,939	-128	4 HE		Blucher
09:18	9,802	-147	5 HE		Blucher
09:19	9,382	-144	1 HE		Roon
09:20	8,329	-126	1 HE		Yorck
09:21	9,075	-163	2 HE		Roon
09:22	8,953	-122	1 HE		Roon
09:23	7,988	-121	1 HE		Yorck
09:24	7,876	-111	1 HE		Yorck
09:25	7,765	-109	6 HE		Yorck
09:26	7,665	-100	6 HE		Yorck
09:27	8,323	-133	1 HE		Roon
09:28	7,443	-109	2 HE		Yorck
09:29	7,334	-109	7 HE		Yorck
09:30	7,234	-100	9 HE		Yorck
09:31	7,935	-197	2 HE		Blucher
09:32	7,776	-157	2 HE		Blucher
09:33	7,411	19	9 HE		Roon
09:34	7,560	153	11 HE		Roon
09:36	8,043	151	2 HE		Blucher
09:37	8,048	208	2 HE		Roon
09:38	8,197	150	6 HE		Roon
09:39	8,219	210	2 HE		Yorck
09:40	8,432	186	8 HE		Yorck
09:41	8,576	132	7 HE	2 hits	Yorck
09:43	8,969	135	1 HE		Roon
09:44	9,088	119	2 HE		Roon
09:45	9,375	126	1 HE		Blucher
09:46	9,515	142	1 HE		Blucher
09:47	8,964	-483	1 HE		Blucher
09:48	8,816	-562	2 HE		Roon
09:49	8,215	-542	1 HE		Roon
09:50	8,407	-596	2 HE		Yorck
09:51	7,813	-592	2 HE		Yorck
09:52	7,260	-500	1 HE		Yorck
09:53	6,824	-415	11 HE		Yorck
09:54	6,438	-340	12 HE		Yorck
09:55	6,242	-195	14 HE		Yorck
09:56	6,035	-206	14 HE		Yorck

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Home Fleet, Gloucester, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:57	5,819	-213	14 HE		Yorck
09:58	5,604	-212	13 HE		Yorck
09:59	6,757	-390	1 AP		Augsburg
10:00	6,368	-387	13 AP	1 hit	Augsburg
10:01	5,983	-381	15 AP		Augsburg
10:02	5,616	-364	12 AP		Augsburg
10:03	5,266	-36	9 AP		Augsburg
10:04	5,251	-13	3 AP		Augsburg
10:05	5,476	825	10 AP		Augsburg
10:06	6,350	929	1 AP		Augsburg
10:07	7,039	840	2 HE		Stuttgart
10:08	7,949	906	1 HE		Stuttgart
10:09	8,939	1,026	1 HE		Stuttgart
10:10	8,338	716	2 HE		Yorck
10:11	9,066	739	1 HE		Yorck
10:12	9,813	753	1 HE		Yorck
4in/45 Secondary Total			400 shells	6 hits	1.5%

Home Fleet, Falmouth

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:51	7,882	-1,066	7 SAP		Kolberg
08:52	10,159	-1,271	1 HE		Roon
08:53	9,510	-547	2 SAP		Nurnberg
08:54	8,941	-1,335	1 SAP		Augsburg
08:55	11,573	-772	1 SAP		Stuttgart
08:56	10,792	-762	1 SAP		Stuttgart
08:58	6,540	1,057	5 HE	1 hit	Blucher
08:59	7,572	1,032	2 HE		Blucher
09:00	8,777	174	1 HE		Yorck
09:01	9,230	571	1 HE		Blucher
09:02	8,253	327	11 HE		Yorck
09:03	8,622	640	2 HE		Yorck
09:04	9,279	741	2 HE		Yorck
09:05	9,084	1,138	2 SAP		Kolberg
09:06	10,286	1,241	1 SAP		Kolberg
09:07	11,515	1,243	1 SAP		Kolberg
09:08	11,509	8	4 HE		Yorck
09:09	5,477	258	9 SAP	1 hit	Nurnberg
09:10	5,799	323	12 SAP rapid		Nurnberg
09:11	6,122	323	6 SAP		Nurnberg
09:12	6,546	425	6 SAP		Nurnberg
09:14	11,373	-126	2 HE		Yorck
09:15	11,205	-176	1 HE		Yorck
09:16	12,685	-97	1 HE		Roon
09:17	11,026	-99	2 HE		Yorck
09:18	10,920	-114	1 HE		Yorck
09:19	10,775	-144	8 HE		Yorck
09:21	10,491	-130	9 HE		Yorck
09:22	10,351	-138	8 HE		Yorck
09:23	10,181	-170	8 HE		Yorck
09:24	9,832	-148	1 SAP		Kolberg
09:25	9,685	-147	8 SAP		Kolberg
09:26	9,524	-160	9 SAP		Kolberg
09:27	9,364	-160	6 SAP		Kolberg
09:28	9,204	-160	9 SAP		Kolberg
09:29	9,044	-160	9 SAP		Kolberg
09:30	8,884	-160	9 SAP		Kolberg
09:31	9,334	495	1 SAP		Kolberg
09:32	9,849	-258	1 HE		Roon
09:33	8,678	-121	2 HE		Yorck
09:34	9,453	-175	2 HE		Roon
09:36	9,187	-145	2 HE		Roon
09:37	8,554	120	2 HE		Yorck
09:38	8,702	167	10 HE	1 hit	Yorck
09:39	10,698	-56	1 SAP		Kolberg
09:40	9,420	152	1 HE		Roon
09:41	10,555	-66	1 SAP		Kolberg
09:42	11,309	-99	1 SAP		Stuttgart
09:43	9,632	170	1 HE		Yorck
09:44	10,431	175	2 HE		Blucher
09:45	10,283	173	6 HE		Roon
09:46	10,402	119	2 HE		Roon
09:47	10,378	-506	1 HE		Roon
09:48	9,797	-743	2 HE		Roon
09:49	8,658	-769	2 HE		Blucher
09:50	9,185	-293	1 SAP		Kolberg
09:51	7,281	-682	12 HE		Blucher
09:52	6,966	-583	13 HE	1 hit	Roon
09:53	8,324	-282	1 SAP		Kolberg
09:54	6,318	-261	16 HE		Roon
09:55	6,052	-264	13 HE	1 hit	Roon
09:56	5,848	-246	15 HE		Roon
09:57	5,654	-243	16 HE		Blucher
09:58	6,700	-343	14 SAP	1 hit	Kolberg
09:59	6,330	-353	15 SAP		Kolberg
10:00	5,966	-357	16 SAP		Kolberg

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Home Fleet, Falmouth (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
10:01	5,609	-357	17 SAP		Kolberg
10:02	5,264	-340	15 SAP		Kolberg
10:03	4,926	-133	18 SAP		Kolberg
10:04	4,824	27	19 SAP	1 hit	Kolberg
10:05	5,149	926	2 SAP		Augsburg
10:06	6,018	-99	8 SAP		Stuttgart
10:07	6,707	785	1 SAP		Stuttgart
10:08	7,569	861	2 SAP		Stuttgart
10:09	8,528	997	1 SAP		Stuttgart
10:11	9,001	772	2 HE		Blucher
10:12	9,781	783	1 HE		Blucher
10:13	13,714	346	1 SAP		Augsburg
6in/50	Primary	Total	428 shells	7 hits	1.6%

Home Fleet, 1st Flotilla

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:45	9,062	-1,276	9 HE		Nurnberg
08:46	7,807	-1,234	12 HE		Nurnberg
08:47	7,497	-255	3 HE		Nurnberg
08:48	7,402	-89	10 HE		Nurnberg
08:49	7,329	-64	13 HE		Nurnberg
08:50	7,347	28	9 HE		Nurnberg
08:51	7,464	135	9 HE		Nurnberg
08:52	7,666	205	8 HE		Nurnberg
08:53	8,070	418	3 HE		Nurnberg
08:54	8,447	424	9 HE		Nurnberg
08:55	8,927	528	6 HE		Nurnberg
08:57	8,857	-648	5 HE		Nurnberg
12pdr	Primary	Total	96 shells	0 hits	

Home Fleet, 2nd Flotilla

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:46	9,083	-1,087	3 HE		Nurnberg
08:47	8,934	-95	1 HE		Nurnberg
08:48	8,807	-125	4 HE		Nurnberg
08:49	8,662	-142	4 HE		Nurnberg
08:50	8,595	-66	4 HE		Nurnberg
08:51	8,612	18	4 HE		Nurnberg
08:52	8,839	252	3 HE		Nurnberg
08:54	9,511	238	2 HE		Nurnberg
08:55	9,821	346	2 HE		Nurnberg
08:57	9,554	-662	2 HE		Nurnberg
4in/40	Primary	Total	29 shells	0 hits	

Hochseeflotte, Nassau

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
08:49	16,431	-1,198	1 SAP			Shannon
08:50	15,166	-1,232	1 SAP			Shannon
08:51	13,935	-1,232	2 SAP			Shannon
08:52	12,773	-1,159	3 SAP			Shannon
08:53	12,483	-283	1 SAP			Shannon
08:54	16,492	-453	1 SAP			Temeraire
08:56	15,090	-1,158	2 SAP			Collingwood
08:57	14,429	-650	1 SAP			Collingwood
08:58	13,853	-567	8 SAP			Collingwood
08:59	13,293	-548	9 SAP			Collingwood
09:00	12,872	-24	9 SAP		1 hit	Collingwood
09:01	12,876	-1	11 AP	rapid		Collingwood
09:02	12,923	46	9 AP			Collingwood
09:03	12,964	42	9 AP			Collingwood
09:04	13,006	42	8 AP			Collingwood
09:05	12,960	-79	8 AP		1 hit	Collingwood
09:06	12,997	-95	10 AP	rapid		Collingwood
09:07	12,886	-111	6 AP			Collingwood
09:08	12,775	-111	8 AP			Collingwood
09:09	12,650	-126	8 AP			Collingwood
09:10	12,524	-126	7 AP			Collingwood
09:11	12,477	41	8 AP			Collingwood
09:12	12,574	98	7 AP			Collingwood
09:13	12,659	85	7 AP			Collingwood
09:14	12,745	87	8 AP			Collingwood
09:15	12,832	87	8 AP			Collingwood
09:16	12,807	-81	7 AP			Collingwood
09:17	12,552	-80	9 AP			Collingwood
09:18	12,472	-80	7 AP			Collingwood
09:19	12,392	-80	9 AP			Collingwood
09:20	12,312	-79	10 AP			Collingwood
09:21	12,233	-79	8 AP			Collingwood
09:22	12,154	-79	10 AP			Collingwood
09:23	12,074	-79	9 AP			Collingwood
09:24	11,995	-79	9 AP			Collingwood
09:25	11,917	-79	10 AP		1 hit	Collingwood
09:26	11,838	-79	10 AP			Collingwood
09:27	11,759	-79	10 AP			Collingwood
09:28	11,681	-79	10 AP			Collingwood
09:29	11,615	-65	9 AP			Collingwood
09:30	11,550	-65	8 AP			Collingwood
09:31	11,484	-65	10 AP		1 hit	Collingwood
09:32	11,124	-341	11 AP		1 hit	Collingwood
09:33	11,516	94	8 AP			Collingwood
09:34	11,638	117	10 AP			Collingwood
09:35	11,726	110	10 SAP			Collingwood
09:36	11,851	120	11 SAP			Collingwood
09:37	11,970	120	10 SAP			Collingwood
09:38	12,096	127	10 SAP			Collingwood
09:39	12,214	118	10 SAP			Collingwood
09:40	12,231	125	9 SAP			Collingwood
09:41	12,370	141	7 SAP			Collingwood
09:42	12,510	141	9 SAP		1 hit	Collingwood
09:43	12,653	143	8 SAP			Collingwood
09:44	12,798	146	9 SAP			Collingwood
09:45	12,944	149	8 SAP		1 hit	Collingwood
09:46	13,093	149	8 SAP		1 hit	Collingwood
09:47	12,922	-170	11 SAP	rapid		Collingwood
09:48	12,780	-153	9 SAP			Collingwood
09:49	12,629	-149	8 SAP		1 hit	Collingwood
09:50	12,480	-149	9 SAP		1 hit	Collingwood
09:51	12,333	-146	7 SAP			Collingwood
09:52	12,188	-143	9 SAP			Collingwood
09:53	12,045	-143	10 SAP		1 hit	Collingwood
09:54	11,903	-141	7 SAP			Collingwood
09:55	11,762	-141	9 SAP		1 hit	Collingwood

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Hochseeflotte, Nassau (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:56	11,623	-139	10 SAP		Collingwood
09:57	11,484	-138	10 SAP		Collingwood
09:58	11,316	-153	10 SAP		Collingwood
09:59	11,164	-153	10 SAP		Collingwood
10:00	11,012	-151	8 SAP	1 hit	Collingwood
10:01	10,860	-151	10 SAP	1 hit	Collingwood
10:02	10,724	-134	9 SAP		Collingwood
10:03	10,606	-119	10 SAP	1 hit	Collingwood
10:04	10,505	-100	10 SAP		Collingwood
10:05	10,423	-81	9 SAP	1 hit	Collingwood
10:06	10,363	-56	9 SAP		Collingwood
10:07	10,321	-39	8 SAP		Collingwood
10:08	10,296	-23	10 SAP	1 hit	Collingwood
10:09	10,294	0	7 SAP		Collingwood
10:10	10,319	29	10 SAP		Collingwood
10:11	10,372	59	9 SAP		Collingwood
10:12	10,455	86	4 SAP		Collingwood
10:13	10,571	119	4 SAP		Collingwood
10:14	10,698	131	5 SAP		Collingwood
10:15	10,836	143	1 SAP		Collingwood
10:16	10,985	155	2 SAP		Collingwood
10:17	11,158	182	1 SAP		Collingwood
10:18	11,359	210	2 SAP		Collingwood
10:19	11,573	217	1 SAP		Collingwood
10:20	11,799	230	2 SAP		Collingwood
10:21	12,036	242	1 SAP		Collingwood
10:46	15,547	60	1 AP		Collingwood
10:47	15,301	-242	1 AP		Collingwood
10:48	15,081	-236	4 AP		Collingwood
10:49	14,852	-223	5 AP		Collingwood
10:50	14,632	-217	3 AP		Collingwood
28cm/45 Primary	Total		708 shells	17 hits	2.4%

Hochseeflotte, Nassau, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:46	15,215	-1,080	1 HE		Bristol
08:47	14,157	-1,049	1 HE		Bristol
08:48	13,087	-1,058	1 HE		Bristol
08:49	11,472	-1,236	1 HE		Falmouth
08:50	10,463	-1,235	2 HE		Gloucester
08:51	9,002	-1,232	1 HE		Falmouth
08:52	8,185	-997	5 HE		Gloucester
08:53	6,907	-1,007	11 HE		Falmouth
08:54	5,897	-1,002	12 HE		Falmouth
08:55	4,905	-977	17 HE	1 hit	Falmouth
08:56	3,945	-939	9 AP		Falmouth
08:57	4,842	901	6 AP		Falmouth
08:58	5,352	188	13 AP		Liverpool
08:59	4,903	-349	14 HE		Gloucester
09:00	4,540	46	18 AP		Gloucester
09:01	4,564	284	15 AP	1 hit	Gloucester
09:02	5,115	569	18 AP		Gloucester
09:03	5,724	612	18 AP		Gloucester
09:04	6,440	743	17 AP		Gloucester
09:05	7,211	794	15 AP		Gloucester
09:06	8,025	830	1 AP		Gloucester
09:07	8,901	888	1 AP		Gloucester
09:08	9,734	778	1 AP		Gloucester
09:10	9,228	70	2 HE		Natal
09:11	9,298	70	1 HE		Natal
09:12	9,428	130	1 HE		Natal
09:13	10,038	-119	1 HE		Liverpool
09:14	9,228	-49	1 HE		Achilles
09:15	9,181	-47	2 HE		Achilles
09:16	9,137	-44	9 HE		Achilles
09:17	9,096	-38	9 HE		Achilles
09:18	9,058	-35	6 HE		Achilles
09:19	9,023	-32	8 HE		Achilles
09:20	8,991	-30	9 HE		Achilles
09:21	8,962	-27	8 HE		Achilles
09:22	8,935	-24	9 HE	1 hit	Achilles
09:23	8,909	-33	9 HE		Achilles
09:24	8,945	-90	1 AP		Bristol
09:25	8,835	-19	1 HE		Shannon
09:26	8,818	-16	11 HE	1 hit	Shannon
09:27	8,805	-13	12 HE		Shannon
09:28	8,590	-63	2 HE		Liverpool
09:29	8,663	-96	1 HE		Gloucester
09:30	8,571	-88	1 HE		Gloucester
09:31	8,481	-84	1 HE		Gloucester
09:32	8,406	-73	12 HE		Gloucester
09:33	8,334	109	1 AP		Gloucester
09:34	8,569	235	11 AP		Gloucester
09:35	8,806	238	11 AP		Gloucester
09:36	9,059	253	11 AP		Gloucester
09:37	8,957	77	1 HE		Falmouth
09:38	9,051	115	2 HE		Falmouth
09:39	9,170	128	8 HE		Falmouth
09:40	9,301	132	11 HE		Falmouth
09:41	9,443	143	8 HE		Falmouth
09:42	10,009	78	1 HE		Gloucester
09:43	9,730	145	2 HE		Falmouth
09:44	9,875	147	1 HE		Falmouth
09:45	10,021	147	2 HE		Falmouth
09:46	10,321	66	1 HE		Gloucester
09:47	9,912	-221	1 HE		Falmouth
09:48	9,696	-222	2 HE		Falmouth
09:49	9,488	-206	1 HE		Falmouth
09:50	9,287	-197	11 HE		Falmouth
09:51	9,092	-193	11 HE		Falmouth
09:52	8,916	-173	10 HE		Falmouth

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Hochseeflotte, Nassau, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:53	9,171	-193	2 AP		Liverpool
09:54	8,978	-193	2 AP		Liverpool
09:55	8,786	-193	7 AP		Liverpool
09:56	8,593	-193	8 AP		Liverpool
09:57	8,421	-172	8 AP		Liverpool
09:58	7,977	-151	2 AP		Falmouth
09:59	7,809	-158	7 AP		Falmouth
10:00	7,641	-165	10 AP		Falmouth
10:01	7,545	-167	1 HE		Gloucester
10:02	7,390	-153	2 HE		Gloucester
10:03	7,153	42	2 HE		Falmouth
10:04	7,231	191	1 HE		Falmouth
10:05	7,219	238	2 HE		Falmouth
10:06	7,368	207	2 HE		Falmouth
10:07	7,631	307	1 HE		Falmouth
10:08	7,986	396	2 HE		Falmouth
10:09	8,411	460	1 HE		Falmouth
10:10	8,897	508	2 HE		Falmouth
10:11	9,433	554	1 HE		Falmouth
10:12	10,012	597	1 HE		Falmouth
10:14	11,272	656	1 HE		Falmouth
10:15	11,942	683	1 HE		Falmouth
10:16	12,633	700	1 HE		Falmouth
10:18	14,103	756	1 HE		Falmouth
10:22	16,707	311	1 HE		Natal
15cm/45 Secondary	Total	491 shells	4 hits	0.8%	

Hochseeflotte, Westfalen

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:49	16,931	-1,198	1 AP		Shannon
08:51	14,434	-1,232	2 AP		Shannon
08:52	13,273	-1,159	2 AP		Shannon
08:53	12,983	-283	1 AP		Shannon
08:54	12,164	-1,066	3 AP		Shannon
08:58	13,835	-638	1 AP		Collingwood
08:59	13,254	-572	2 AP		Collingwood
09:00	12,817	-23	10 AP		Collingwood
09:01	12,927	-459	1 AP		St. Vincent
09:02	12,898	41	8 AP		St. Vincent
09:03	12,939	54	9 AP		St. Vincent
09:04	12,980	48	7 AP		St. Vincent
09:05	13,030	50	8 AP	1 hit	St. Vincent
09:06	13,074	44	11 AP	rapid	St. Vincent
09:07	12,991	-111	7 AP		St. Vincent
09:08	12,881	-111	8 AP		St. Vincent
09:09	12,754	-126	8 AP		St. Vincent
09:10	12,629	-126	8 AP		St. Vincent
09:11	12,503	-126	8 AP		St. Vincent
09:12	12,482	98	9 AP		St. Vincent
09:13	12,567	85	9 AP		St. Vincent
09:14	12,653	85	8 AP	1 hit	St. Vincent
09:15	12,740	87	9 AP	1 hit	St. Vincent
09:16	12,827	87	9 AP		St. Vincent
09:17	12,746	-81	7 AP		St. Vincent
09:18	12,665	-81	9 AP		St. Vincent
09:19	12,569	-95	10 AP		St. Vincent
09:20	12,474	-95	10 AP		St. Vincent
09:21	12,379	-94	9 AP		St. Vincent
09:22	12,285	-94	9 AP		St. Vincent
09:23	12,177	-108	10 AP		St. Vincent
09:24	12,070	-106	10 AP		St. Vincent
09:25	11,964	-106	9 AP	1 hit	St. Vincent
09:26	11,887	-92	10 AP		St. Vincent
09:27	11,519	-79	10 AP		St. Vincent
09:28	11,441	-79	10 AP		St. Vincent
09:29	11,375	-65	11 AP		St. Vincent
09:30	11,310	-65	10 AP		St. Vincent
09:31	11,245	-65	11 AP		St. Vincent
09:32	11,192	-228	11 AP		St. Vincent
09:33	11,441	87	10 AP		St. Vincent
09:34	11,563	95	9 AP		St. Vincent
09:35	11,651	102	11 AP		St. Vincent
09:36	11,776	112	8 AP		St. Vincent
09:37	11,896	120	8 AP		St. Vincent
09:38	12,022	127	8 AP		St. Vincent
09:39	12,140	118	11 AP	1 hit	St. Vincent
09:40	12,251	111	10 AP	1 hit	St. Vincent
09:41	12,366	116	11 AP		St. Vincent
09:42	12,559	127	10 AP	2 hits	St. Vincent
09:43	12,718	138	9 AP		St. Vincent
09:44	12,880	151	9 AP		St. Vincent
09:45	13,032	154	10 AP		St. Vincent
09:46	13,186	154	9 AP		St. Vincent
09:47	13,039	-399	9 AP		St. Vincent
09:48	13,199	189	10 AP		St. Vincent
09:49	13,479	290	10 AP		St. Vincent
09:50	13,861	395	9 AP		St. Vincent
09:51	14,179	194	8 AP	2 hits	St. Vincent
09:52	13,755	-116	14 AP	rapid	St. Vincent
09:53	13,639	-116	9 AP		St. Vincent
09:54	13,524	-113	6 AP		St. Vincent
09:55	13,431	-91	9 AP	1 hit	St. Vincent
09:56	13,361	-68	12 AP	rapid	St. Vincent
09:57	13,306	-52	9 AP	2 hits	St. Vincent
09:58	13,274	-27	9 AP		St. Vincent

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Hochseeflotte, Westfalen (continued)

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
09:59	13,269	-2	10 AP		1 hit	St. Vincent
10:00	13,290	25	9 AP		4 hits	St. Vincent
10:01	13,340	52	8 AP			St. Vincent
10:02	13,420	86	9 AP			St. Vincent
10:03	13,531	115	10 AP		1 hit	St. Vincent
10:04	13,677	152	11 AP	rapid		St. Vincent
10:05	10,372	-87	2 AP			Collingwood
10:07	9,370	-477	3 AP			Collingwood
10:08	9,408	41	2 AP			Collingwood
10:09	9,527	110	6 AP			Collingwood
10:10	9,659	137	7 AP			Collingwood
10:11	9,821	173	7 AP			Collingwood
10:12	9,921	109	7 AP		1 hit	Collingwood
10:13	10,416	146	7 AP			Collingwood
10:14	10,528	152	4 AP			Collingwood
10:15	10,651	155	3 AP			Collingwood
10:16	10,785	150	4 AP			Collingwood
10:46	15,487	45	1 AP			Collingwood
10:47	15,538	60	1 AP			Collingwood
10:48	15,357	-242	1 AP			Collingwood
10:49	15,117	-236	1 AP			Collingwood
28cm/45 Primary Total			665 shells	20 hits	3%	

Hochseeflotte, Westfalen, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:46	15,706	-1,080	1 AP		Bristol
08:48	13,132	-1,234	1 AP		Falmouth
08:49	11,893	-1,238	1 AP		Falmouth
08:50	10,655	-1,238	2 AP		Falmouth
08:51	9,418	-1,236	8 AP		Falmouth
08:52	8,364	-1,050	9 AP		Falmouth
08:53	7,341	-997	11 AP		Falmouth
08:54	6,342	-990	12 AP		Falmouth
08:55	5,365	-963	15 AP		Falmouth
08:56	4,421	-922	9 AP		Falmouth
08:57	4,687	880	6 AP		Falmouth
08:58	5,295	-228	15 AP	2 hits	Gloucester
08:59	5,105	-329	14 AP		Gloucester
09:00	4,764	63	16 AP		Gloucester
09:01	4,801	278	15 AP		Gloucester
09:02	5,240	507	18 AP		Gloucester
09:03	5,785	554	20 AP		Gloucester
09:04	6,449	701	14 AP		Gloucester
09:05	7,176	754	10 AP		Gloucester
09:06	7,954	794	2 AP		Gloucester
09:07	12,617	671	1 AP		Falmouth
09:09	10,163	30	1 AP		Liverpool
09:10	10,190	26	1 AP		Liverpool
09:11	9,185	76	1 AP		Natal
09:12	9,264	138	1 AP		Natal
09:13	9,937	-110	1 AP		Liverpool
09:14	9,365	-55	2 AP		Natal
09:15	9,311	-55	1 AP		Natal
09:16	9,258	-52	8 AP		Natal
09:17	9,209	-49	9 AP		Natal
09:18	9,162	-47	7 AP		Natal
09:19	9,118	-44	10 AP		Natal
09:20	9,199	-99	1 AP		Liverpool
09:21	9,103	-93	1 AP		Liverpool
09:22	9,024	-77	6 AP		Liverpool
09:23	8,949	-73	5 AP		Liverpool
09:24	8,879	-70	1 AP		Liverpool
09:25	8,813	-63	6 AP		Liverpool
09:26	8,916	-93	1 AP		Gloucester
09:27	8,695	-56	2 AP		Liverpool
09:28	8,730	-88	1 AP		Gloucester
09:29	8,595	-45	2 AP		Liverpool
09:30	8,553	-41	2 AP		Liverpool
09:31	8,493	-70	1 AP		Gloucester
09:32	8,429	-63	12 AP		Gloucester
09:33	8,369	122	1 AP		Gloucester
09:34	9,001	-74	2 AP		Falmouth
09:35	8,857	247	2 AP		Gloucester
09:36	9,119	265	2 AP		Gloucester
09:37	8,834	85	1 AP		Falmouth
09:38	8,931	118	2 AP		Falmouth
09:39	9,049	127	11 AP		Falmouth
09:40	9,176	127	10 AP		Falmouth
09:41	9,312	137	11 AP		Falmouth
09:42	9,449	137	10 AP		Falmouth
09:43	9,587	139	10 AP		Falmouth
09:44	9,727	141	11 AP		Falmouth
09:45	9,868	141	10 AP		Falmouth
09:46	9,979	110	10 AP		Falmouth
09:47	10,035	-219	9 AP		Falmouth
09:48	9,828	-214	11 AP		Falmouth
09:49	9,632	-193	11 AP		Falmouth
09:50	9,443	-184	11 AP		Falmouth
09:51	9,262	-179	6 AP		Falmouth
09:52	9,420	-191	1 AP		Gloucester
09:53	8,956	-138	2 AP		Falmouth

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Hochseeflotte, Westfalen, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:54	8,823	-126	1 AP		Falmouth
09:55	8,690	-127	7 AP		Falmouth
09:56	8,771	-192	1 AP		Bristol
09:57	8,599	-172	8 AP		Bristol
09:58	8,324	-165	1 AP		Gloucester
09:59	8,159	-165	9 AP		Gloucester
10:00	7,994	-165	1 AP		Gloucester
10:01	7,829	-165	5 AP		Gloucester
10:02	7,680	-148	7 AP		Gloucester
10:03	7,551	175	2 AP		Gloucester
10:04	7,704	78	1 AP		Gloucester
10:05	7,476	179	2 AP		Falmouth
10:07	7,293	-58	4 AP		Falmouth
10:08	7,895	364	1 AP		Gloucester
10:09	7,983	469	1 AP		Falmouth
10:10	8,483	544	2 AP		Falmouth
10:11	9,054	604	1 AP		Falmouth
10:12	9,587	563	1 AP		Falmouth
10:13	10,549	626	1 AP		Falmouth
10:14	11,169	656	1 AP		Falmouth
10:15	11,816	671	1 AP		Falmouth
10:16	12,487	692	1 AP		Falmouth
10:17	13,189	721	1 AP		Falmouth
10:19	14,672	756	1 AP		Falmouth
10:22	16,705	543	1 AP		Natal
15cm/45 Secondary Total			489 shells	2 hits	0.4%

Hochseeflotte, Rheinland

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
08:50	16,664	-1,232	1 AP			Achilles
08:52	13,773	-1,159	1 AP			Shannon
08:53	13,483	-283	1 AP			Shannon
08:54	12,664	-1,066	3 AP			Shannon
08:55	15,057	-1,224	1 AP			Superb
08:58	14,297	-897	1 AP			St. Vincent
08:59	12,755	-494	1 AP			Collingwood
09:00	12,956	-133	1 AP			St. Vincent
09:02	13,241	394	1 AP			Temeraire
09:03	13,318	84	4 AP			Temeraire
09:04	13,403	-274	5 AP			Temeraire
09:05	13,407	3	6 AP			Temeraire
09:06	13,410	-619	1 AP			Temeraire
09:08	13,282	-143	6 AP			Temeraire
09:09	13,130	-152	7 AP			Temeraire
09:10	12,979	-151	8 AP			Temeraire
09:11	12,828	-151	8 AP			Temeraire
09:12	12,651	-94	6 AP			Temeraire
09:13	12,559	-121	7 AP		1 hit	Temeraire
09:14	12,441	-136	13 AP	rapid	1 hit	Temeraire
09:15	12,305	-154	11 AP	rapid	1 hit	Temeraire
09:16	12,401	96	4 AP			Temeraire
09:17	12,342	-67	10 AP			Temeraire
09:18	12,283	-59	8 AP			Temeraire
09:19	12,213	-70	10 AP			Temeraire
09:20	12,143	-70	9 AP			Temeraire
09:21	12,082	-61	9 AP		1 hit	Temeraire
09:22	12,021	-61	7 AP		1 hit	Temeraire
09:23	11,949	-72	10 AP		1 hit	Temeraire
09:24	11,876	-72	11 AP		1 hit	Temeraire
09:25	11,812	-64	8 AP		1 hit	Temeraire
09:26	11,817	-63	10 AP			Temeraire
09:27	11,153	-83	11 AP			Temeraire
09:28	11,102	-51	11 AP		1 hit	Temeraire
09:29	11,062	-39	10 AP		1 hit	Temeraire
09:30	11,033	-29	12 AP			Temeraire
09:31	11,718	693	8 AP			Temeraire
09:32	11,762	86	12 AP			Temeraire
09:33	11,703	-6	11 AP			Temeraire
09:34	11,542	98	13 AP			Temeraire
09:35	11,707	136	9 AP			Temeraire
09:36	11,821	115	12 AP			Temeraire
09:37	11,645	-159	11 AP		1 hit	Temeraire
09:38	12,059	444	12 AP			Temeraire
09:39	12,499	457	10 AP			Temeraire
09:40	13,014	540	11 AP			Temeraire
09:41	13,614	619	9 AP			Temeraire
09:42	14,382	768	8 AP		1 hit	Temeraire
09:43	14,587	206	14 AP	rapid		Temeraire
09:44	14,871	248	6 AP			Temeraire
09:45	15,138	268	5 AP			Temeraire
09:46	15,429	291	4 AP			Temeraire
09:47	15,657	230	3 AP			Temeraire
09:48	15,766	-88	2 AP			Temeraire
09:49	15,650	-114	4 AP			Temeraire
09:50	15,515	-135	5 AP			Temeraire
09:51	15,360	-154	5 AP			Temeraire
09:52	15,196	-164	6 AP			Temeraire
09:53	15,033	-164	4 AP			Temeraire
09:54	14,870	-162	6 AP			Temeraire
09:55	14,730	-140	6 AP			Temeraire
09:56	14,613	-116	7 AP			Temeraire
09:57	14,464	-149	7 AP			Temeraire
09:58	14,293	-171	7 AP			Temeraire
09:59	14,122	-170	8 AP		1 hit	Temeraire
10:00	13,974	-147	7 AP		1 hit	Temeraire

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Hochseeflotte, Rheinland (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
10:01	13,850	-125	8 AP		Temeraire
10:02	13,750	-99	8 AP		Temeraire
10:03	13,674	-73	8 AP		Temeraire
10:04	13,625	-50	8 AP		Temeraire
10:05	13,602	-23	8 AP		Temeraire
10:06	13,607	6	10 AP		Temeraire
10:08	13,266	95	2 AP		Temeraire
10:09	13,407	83	10 AP		Temeraire
10:10	13,817	94	8 AP		Temeraire
10:11	13,942	125	8 AP		Temeraire
10:12	14,099	162	8 AP		Temeraire
10:13	14,290	194	10 AP		Temeraire
10:14	14,488	200	8 AP		Temeraire
10:15	14,692	205	9 AP		Temeraire
10:16	14,902	216	8 AP		Temeraire
10:17	15,138	241	9 AP		Temeraire
10:18	15,401	267	7 AP		Temeraire
10:19	15,672	273	5 AP		Temeraire
10:20	15,950	284	4 AP		Temeraire
10:21	16,235	290	2 AP		Temeraire
10:22	16,527	296	3 AP		Temeraire
10:23	16,824	301	3 AP		Temeraire
10:24	16,966	83	1 AP		Temeraire
10:25	17,055	97	2 AP		Temeraire
10:26	17,155	105	3 AP		Temeraire
10:27	17,264	112	2 AP		Temeraire
10:28	17,384	127	1 AP		Temeraire
10:29	17,557	197	1 AP		Temeraire
10:30	17,758	203	1 AP		Temeraire
10:31	17,967	210	1 AP		Temeraire
28cm/45 Primary	Total	631 shells	14 hits	2.2%	

Hochseeflotte, Rheinland, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:46	16,134	-1,212	1 AP		Falmouth
08:48	13,560	-1,235	1 AP		Falmouth
08:49	12,321	-1,239	2 AP		Falmouth
08:50	11,081	-1,239	6 AP		Falmouth
08:51	10,190	-1,259	2 AP		Gloucester
08:52	8,796	-1,039	8 AP		Falmouth
08:53	7,783	-985	10 AP		Falmouth
08:54	6,795	-977	10 AP		Falmouth
08:55	5,831	-947	13 AP		Falmouth
08:56	5,798	-190	5 AP		Gloucester
08:57	5,875	-598	9 AP		Liverpool
08:58	5,079	439	18 AP	1 hit	Falmouth
08:59	5,879	128	10 AP		Liverpool
09:00	6,036	623	10 AP		Liverpool
09:01	6,744	953	4 AP		Liverpool
09:02	7,625	910	1 AP		Liverpool
09:03	6,798	471	1 AP		Gloucester
09:04	7,372	299	1 AP		Gloucester
09:05	8,902	642	1 AP		Bristol
09:08	9,945	676	1 AP		Gloucester
09:09	9,355	73	1 AP		Natal
09:10	10,692	23	1 AP		Liverpool
09:11	10,661	19	1 AP		Bristol
09:12	9,581	-38	1 AP		Natal
09:14	9,339	-256	1 AP		Natal
09:15	9,086	-269	1 AP		Natal
09:16	9,064	-21	1 AP		Natal
09:17	9,046	-18	10 AP		Natal
09:18	9,031	-15	9 AP	1 hit	Natal
09:19	9,017	-12	10 AP	1 hit	Natal
09:20	9,005	-10	9 AP		Natal
09:21	8,995	-10	9 AP		Natal
09:22	8,985	-9	8 AP		Natal
09:23	8,977	-7	9 AP		Natal
09:24	9,093	-74	1 AP		Gloucester
09:25	9,019	-73	1 AP		Gloucester
09:26	8,946	-72	1 AP		Gloucester
09:27	8,840	-106	1 AP		Gloucester
09:28	8,835	-51	2 AP		Liverpool
09:29	8,699	-69	2 AP		Gloucester
09:30	8,725	-58	1 AP		Liverpool
09:31	8,668	-58	2 AP		Liverpool
09:32	8,905	237	1 AP		Liverpool
09:33	9,168	236	12 AP		Liverpool
09:34	9,432	245	10 AP		Liverpool
09:35	9,697	255	10 AP		Liverpool
09:36	9,963	266	10 AP		Liverpool
09:37	10,151	188	10 AP		Liverpool
09:38	10,294	143	9 AP		Liverpool
09:39	9,837	199	2 AP		Gloucester
09:40	10,002	157	1 AP		Gloucester
09:41	10,076	81	11 AP		Gloucester
09:42	10,133	58	9 AP		Gloucester
09:43	10,205	73	11 AP		Gloucester
09:44	10,278	61	8 AP		Gloucester
09:45	10,339	63	8 AP		Gloucester
09:46	10,383	48	10 AP		Gloucester
09:47	10,554	41	6 AP		Gloucester
09:48	10,542	-242	3 AP		Gloucester
09:49	10,481	-225	1 AP		Bristol
09:50	9,624	-170	2 AP		Falmouth
09:51	10,215	-216	1 AP		Liverpool
09:52	9,313	-138	2 AP		Falmouth
09:53	9,183	-126	1 AP		Falmouth
09:54	9,067	-107	8 AP		Falmouth
09:55	9,281	-193	1 AP		Bristol

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Hochseeflotte, Rheinland, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:56	8,838	-127	2 AP		Falmouth
09:57	8,665	-121	1 AP		Falmouth
09:58	8,506	-131	1 AP		Falmouth
09:59	8,606	-160	1 AP		Bristol
10:00	8,297	-162	1 AP		Gloucester
10:01	8,011	-172	2 AP		Falmouth
10:02	7,853	-157	6 AP		Falmouth
10:03	7,713	47	2 AP		Falmouth
10:04	8,005	50	1 AP		Gloucester
10:05	8,219	65	1 AP		Bristol
10:06	8,071	146	2 AP		Gloucester
10:09	8,385	416	2 AP		Falmouth
10:10	9,367	460	1 AP		Gloucester
10:11	9,851	508	1 AP		Gloucester
10:12	10,380	554	1 AP		Gloucester
10:13	10,494	576	1 AP		Falmouth
10:14	11,552	618	1 AP		Gloucester
10:16	12,841	665	1 AP		Gloucester
10:17	13,042	692	1 AP		Falmouth
10:19	14,490	739	1 AP		Falmouth
10:21	15,940	556	1 AP		Natal
15cm/45	Secondary	Total	374 shells	3 hits	0.8%

Hochseeflotte, Posen

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:51	15,932	-1,232	1 SAP		Achilles
08:52	14,715	-1,163	1 SAP		Achilles
08:53	13,982	-283	1 SAP		Shannon
08:54	13,164	-1,066	1 SAP		Shannon
08:58	15,686	-1,064	1 SAP		Colossus
09:00	13,699	-513	1 SAP		Temeraire
09:01	13,724	-464	6 SAP		Colossus
09:02	13,249	-466	8 SAP		Colossus
09:03	12,909	-13	9 SAP		Colossus
09:04	12,929	54	8 AP		Colossus
09:05	12,986	50	9 AP		Colossus
09:06	13,037	43	8 AP		Colossus
09:07	12,967	-70	7 AP		Colossus
09:08	12,884	-83	9 AP		Colossus
09:09	12,801	-83	8 AP	1 hit	Colossus
09:10	12,694	-107	7 AP		Colossus
09:11	12,587	-59	9 AP		Colossus
09:12	12,598	11	8 AP		Colossus
09:13	12,610	12	8 AP		Colossus
09:14	12,630	68	8 AP		Colossus
09:15	12,698	68	8 AP	1 hit	Colossus
09:16	12,774	46	8 AP		Colossus
09:17	12,702	-72	9 AP		Colossus
09:18	12,630	-72	9 AP		Colossus
09:19	12,543	-87	9 AP		Colossus
09:20	12,457	-85	8 AP		Colossus
09:21	12,372	-85	10 AP		Colossus
09:22	12,287	-85	9 AP		Colossus
09:23	12,188	-98	8 AP		Colossus
09:24	12,091	-98	10 AP		Colossus
09:25	11,994	-96	9 AP		Colossus
09:26	11,898	-96	8 AP	1 hit	Colossus
09:27	11,691	-208	10 AP	1 hit	Colossus
09:28	10,961	-79	10 AP		Colossus
09:29	10,896	-65	11 AP	3 hits	Colossus
09:30	10,830	-65	8 AP		Colossus
09:31	10,765	-65	11 AP		Colossus
09:32	10,713	63	12 AP		Colossus
09:33	10,782	302	12 AP		Colossus
09:34	11,312	93	11 AP		Colossus
09:35	11,399	100	11 AP		Colossus
09:36	11,518	106	11 SAP		Colossus
09:37	11,632	115	11 SAP	2 hits	Colossus
09:38	11,753	122	9 SAP		Colossus
09:39	11,868	115	10 SAP		Colossus
09:40	11,976	109	11 SAP		Colossus
09:41	12,089	113	10 SAP	1 hit	Colossus
09:42	12,194	105	11 SAP		Colossus
09:43	12,292	97	10 SAP	1 hit	Colossus
09:44	12,389	97	11 SAP		Colossus
09:45	12,487	97	9 SAP		Colossus
09:46	12,592	105	10 SAP		Colossus
09:47	12,718	101	8 SAP		Colossus
09:48	12,850	97	9 SAP	1 hit	Colossus
09:49	12,909	-180	13 SAP rapid		Colossus
09:50	12,748	-169	9 SAP	1 hit	Colossus
09:51	12,589	-159	11 SAP	2 hits	Colossus
09:52	12,434	-154	10 SAP	1 hit	Colossus
09:53	12,280	-154	9 SAP	1 hit	Colossus
09:54	12,127	-152	11 SAP		Colossus
09:55	11,976	-152	11 SAP		Colossus
09:56	11,826	-150	11 SAP	1 hit	Colossus
09:57	11,678	-147	11 SAP		Colossus
09:58	11,519	-147	12 SAP	1 hit	Colossus
09:59	11,349	-158	12 SAP	2 hits	Colossus
10:00	11,190	-158	11 SAP	1 hit	Colossus

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Hochseeflotte, Posen (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
10:01	11,032	-157	12 SAP		Colossus
10:02	10,887	-145	12 SAP		Colossus
10:03	10,755	-130	13 SAP	2 hits	Colossus
10:04	10,638	-114	12 SAP	1 hit	Colossus
10:05	10,538	-98	13 SAP	1 hit	Colossus
10:07	9,901	45	3 SAP		Collingwood
10:08	9,915	-1	13 SAP	1 hit	Collingwood
10:09	10,078	-35	6 SAP	1 hit	Collingwood
10:10	10,062	-10	6 SAP		Collingwood
10:11	10,071	11	6 SAP		Collingwood
10:12	13,646	288	2 SAP		Bellerophon
10:13	10,173	70	6 SAP	1 hit	Collingwood
10:14	10,251	82	3 SAP		Collingwood
10:15	10,342	95	3 SAP		Collingwood
10:36	13,349	176	5 AP		Collingwood
10:37	13,529	183	6 AP		Collingwood
10:38	13,721	197	2 AP		Collingwood
28cm/45 Primary Total			703 shells	29 hits	4.1%

Hochseeflotte, Posen, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:47	15,291	-1,277	1 HE		Falmouth
08:49	12,753	-1,240	1 HE		Falmouth
08:50	11,513	-1,240	2 HE		Falmouth
08:51	10,686	-1,255	1 HE		Gloucester
08:52	9,681	-987	3 HE		Gloucester
08:53	8,744	-896	5 HE		Gloucester
08:54	7,255	-970	8 HE	1 hit	Falmouth
08:55	6,302	-939	6 AP		Falmouth
08:56	6,273	-204	2 HE		Gloucester
08:57	6,232	-655	10 HE		Liverpool
08:58	6,289	-92	5 HE		Liverpool
08:59	5,830	564	1 HE		Falmouth
09:00	5,327	95	11 HE		Gloucester
09:01	5,384	283	12 AP		Gloucester
09:02	6,558	414	2 HE		Bristol
09:03	7,016	525	2 HE		Bristol
09:04	7,540	652	1 HE		Bristol
09:05	8,184	712	1 HE		Bristol
09:06	8,919	756	1 HE		Bristol
09:07	8,685	798	1 HE		Gloucester
09:08	10,072	34	1 HE		Liverpool
09:09	8,864	85	2 HE		Natal
09:11	9,038	89	2 HE		Natal
09:12	9,125	88	2 HE		Natal
09:14	9,072	-30	2 HE		Cochrane
09:15	9,043	-27	10 HE		Cochrane
09:16	9,017	-24	9 HE		Cochrane
09:17	8,994	-21	10 HE		Cochrane
09:18	8,974	-18	10 HE		Cochrane
09:19	8,957	-15	10 HE	2 hits	Cochrane
09:20	8,944	-12	9 HE		Cochrane
09:21	8,933	-9	10 HE	1 hit	Cochrane
09:22	8,925	-6	7 HE	1 hit	Cochrane
09:23	8,921	-3	10 HE		Cochrane
09:24	8,977	-45	1 AP		Liverpool
09:25	8,912	-52	1 HE		Bristol
09:26	8,889	-70	1 HE		Gloucester
09:27	8,819	-68	1 HE		Gloucester
09:28	8,776	-38	1 HE		Bristol
09:29	8,740	-34	1 HE		Bristol
09:30	8,709	-27	1 HE		Bristol
09:31	8,684	-23	7 HE	1 hit	Bristol
09:32	8,756	274	1 AP		Bristol
09:33	8,527	140	2 HE		Gloucester
09:34	8,784	258	2 HE		Gloucester
09:35	8,748	-40	2 HE		Falmouth
09:36	8,709	-50	1 HE		Falmouth
09:37	9,564	273	2 HE		Gloucester
09:38	8,772	122	2 HE		Falmouth
09:39	8,887	124	2 HE	1 hit	Falmouth
09:40	9,003	118	10 AP		Falmouth
09:41	9,126	124	9 AP	1 hit	Falmouth
09:42	9,250	124	9 AP		Falmouth
09:43	9,376	126	11 AP		Falmouth
09:44	10,362	53	1 AP		Gloucester
09:45	9,633	131	2 HE		Falmouth
09:46	9,738	105	2 HE		Falmouth
09:47	9,836	98	2 HE		Falmouth
09:48	10,801	35	1 HE		Bristol
09:49	9,989	-165	1 HE		Falmouth
09:50	10,441	-214	1 HE		Gloucester
09:51	9,671	-150	2 HE		Falmouth
09:52	10,192	-193	1 HE		Bristol
09:53	9,841	-193	1 HE		Gloucester
09:54	9,331	-95	2 HE		Falmouth
09:56	9,129	-112	2 HE		Falmouth

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Hochseeflotte, Posen, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:57	8,957	-108	1 HE		Falmouth
09:58	9,104	-158	1 HE		Bristol
09:59	8,638	-137	1 HE		Falmouth
10:00	8,475	-155	9 HE		Falmouth
10:01	8,312	-172	7 HE		Falmouth
10:02	8,158	-153	9 HE		Falmouth
10:03	8,024	49	1 HE		Falmouth
10:04	8,118	191	2 HE		Falmouth
10:05	8,254	-23	1 HE		Gloucester
10:08	8,276	300	2 HE		Falmouth
10:09	9,036	356	1 HE		Gloucester
10:10	9,426	422	1 HE		Gloucester
10:11	9,462	447	1 HE		Falmouth
10:12	9,939	496	1 HE		Falmouth
10:13	10,908	554	1 HE		Gloucester
10:15	11,625	618	1 HE		Falmouth
10:16	12,727	647	1 HE		Gloucester
10:18	13,606	702	1 HE		Falmouth
10:20	15,058	748	1 HE		Falmouth
15cm/45	Secondary	Total	298 shells	8 hits	2.7%

Hochseeflotte, Thurigen

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
08:50	16,778	-1,215	1 SAP			Achilles
08:52	14,637	-891	1 SAP			Achilles
08:53	13,983	31	8 SAP			Achilles
08:54	14,214	-705	1 SAP			Achilles
08:57	14,952	-482	3 SAP			Superb
08:58	14,441	-497	4 SAP			Superb
08:59	13,924	-506	3 AP			Superb
09:00	14,726	-1,092	1 AP			Colossus
09:01	12,780	-83	2 SAP		1 hit	Collingwood
09:02	12,760	-23	14 AP	rapid		Collingwood
09:03	12,735	-24	10 AP		1 hit	Collingwood
09:04	12,718	-17	15 AP	rapid	1 hit	Collingwood
09:05	12,698	-27	9 AP		1 hit	St. Vincent
09:06	12,723	31	15 AP	rapid	1 hit	St. Vincent
09:07	12,660	-125	14 AP	rapid	1 hit	St. Vincent
09:08	12,544	-120	9 AP			St. Vincent
09:09	12,412	-132	10 AP			St. Vincent
09:10	12,281	-132	9 AP			St. Vincent
09:11	12,149	-132	10 AP			St. Vincent
09:12	12,138	42	9 AP			St. Vincent
09:13	12,180	42	10 AP			St. Vincent
09:14	12,221	42	10 AP			St. Vincent
09:15	12,238	38	9 AP			St. Vincent
09:16	12,336	99	10 AP			St. Vincent
09:17	12,260	-75	9 AP			St. Vincent
09:18	12,185	-75	10 AP		1 hit	St. Vincent
09:19	12,106	-86	11 AP			St. Vincent
09:20	12,006	-85	9 AP			St. Vincent
09:21	11,922	-85	10 AP			St. Vincent
09:22	11,837	-83	10 AP		1 hit	St. Vincent
09:23	11,744	-93	10 AP		2 hits	St. Vincent
09:24	11,652	-91	11 AP			St. Vincent
09:25	11,561	-91	10 AP		1 hit	St. Vincent
09:26	11,501	-80	12 AP	rapid	1 hit	St. Vincent
09:27	11,138	-72	11 AP		1 hit	St. Vincent
09:28	11,067	-71	11 AP			St. Vincent
09:29	11,004	-63	10 AP		1 hit	St. Vincent
09:30	10,941	-63	11 AP			St. Vincent
09:31	10,878	-63	10 SAP			St. Vincent
09:32	10,823	-247	11 SAP			St. Vincent
09:33	10,950	85	11 SAP			St. Vincent
09:34	11,047	88	11 SAP		1 hit	St. Vincent
09:35	11,132	91	12 SAP			St. Vincent
09:36	11,232	96	11 SAP			St. Vincent
09:37	11,332	100	9 SAP		1 hit	St. Vincent
09:38	11,429	98	11 SAP		1 hit	St. Vincent
09:39	11,543	105	9 SAP			St. Vincent
09:40	11,643	101	11 SAP			St. Vincent
09:41	11,740	96	10 SAP			St. Vincent
09:42	11,889	103	11 SAP			St. Vincent
09:43	12,023	111	11 SAP			St. Vincent
09:44	12,159	120	10 SAP			St. Vincent
09:45	12,292	122	11 SAP		1 hit	St. Vincent
09:46	12,427	122	10 SAP			St. Vincent
09:47	12,238	-177	10 SAP			St. Vincent
09:48	12,602	389	11 SAP			St. Vincent
09:49	13,111	524	9 SAP			St. Vincent
09:50	13,704	610	8 SAP			St. Vincent
09:51	13,996	178	6 SAP			St. Vincent
09:52	13,552	-132	8 SAP			St. Vincent
09:53	13,422	-129	8 SAP			St. Vincent
09:54	13,304	-129	7 SAP			St. Vincent
09:55	13,161	-113	10 SAP		1 hit	St. Vincent
09:56	13,064	-97	11 SAP	rapid		St. Vincent
09:57	12,987	-76	9 SAP			St. Vincent
09:58	12,922	-60	9 SAP			St. Vincent

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Hochseeflotte, Thurigen (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:59	12,883	-38	8 SAP		St. Vincent
10:00	12,868	-11	8 SAP		St. Vincent
10:01	12,879	14	5 SAP		St. Vincent
10:02	12,917	45	7 SAP		St. Vincent
10:03	12,984	71	9 SAP		St. Vincent
10:04	13,084	105	7 SAP	3 hits	St. Vincent
10:05	11,448	246	10 SAP		Bellerophon
10:06	11,740	308	11 SAP		Bellerophon
10:07	12,044	327	7 SAP		Bellerophon
10:08	12,347	318	10 SAP		Bellerophon
10:09	12,641	304	10 SAP	1 hit	Bellerophon
10:10	12,929	301	13 SAP rapid		Bellerophon
10:11	13,205	288	4 SAP		Bellerophon
10:12	13,467	265	4 SAP		Bellerophon
10:13	13,711	249	4 SAP		Bellerophon
10:14	13,937	232	3 SAP		Bellerophon
10:15	14,143	208	4 SAP		Bellerophon
10:16	14,327	189	3 SAP		Bellerophon
10:17	14,488	163	2 SAP		Bellerophon
10:18	14,651	156	1 SAP		Bellerophon
10:19	14,839	183	2 SAP		Bellerophon
10:41	14,020	210	4 AP		Collingwood
10:42	14,281	267	1 AP		Collingwood
10:43	14,551	273	5 AP		Collingwood
10:44	14,828	279	3 AP		Collingwood
30.5cm/50 Primary Total 752 shells 23 hits 3.1%					

Hochseeflotte, Thurigen, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:45	16,330	-1,276	1 HE		Falmouth
08:47	13,730	-1,271	1 HE		Falmouth
08:48	13,557	-1,154	1 HE		Gloucester
08:49	12,361	-1,194	1 HE		Gloucester
08:50	11,183	-1,173	3 HE		Gloucester
08:51	9,996	-1,176	4 HE		Gloucester
08:52	9,448	-547	1 HE		Gloucester
08:53	7,947	-371	1 HE		Falmouth
08:54	8,522	-460	1 HE		Gloucester
08:55	8,014	-506	2 HE		Gloucester
08:56	7,361	-214	1 HE		Gloucester
08:57	7,233	-286	10 HE		Gloucester
08:58	6,968	-495	11 HE		Gloucester
08:59	6,877	61	2 HE		Falmouth
09:00	6,083	55	12 HE		Gloucester
09:01	6,709	196	5 HE		Bristol
09:02	7,016	380	1 HE		Bristol
09:03	6,534	329	2 HE		Gloucester
09:04	7,877	525	2 HE		Bristol
09:05	8,870	547	1 HE		Liverpool
09:06	7,973	643	1 HE		Gloucester
09:07	8,840	-86	2 HE		Natal
09:08	8,752	-90	2 HE		Natal
09:09	8,811	94	1 HE		Natal
09:10	10,117	38	1 HE		Bristol
09:11	10,209	43	1 HE		Liverpool
09:12	9,097	97	1 HE		Natal
09:13	9,195	97	11 HE		Natal
09:14	9,126	-96	11 HE		Natal
09:15	9,038	-91	8 HE		Natal
09:16	9,015	-21	11 HE		Natal
09:17	8,995	-18	11 HE		Natal
09:18	8,978	-15	11 HE		Natal
09:19	8,965	-12	10 HE		Natal
09:20	8,955	-9	11 HE		Natal
09:21	8,948	-6	10 HE		Natal
09:22	8,944	-3	11 HE	1 hit	Natal
09:23	8,943	-1	10 HE		Natal
09:24	9,057	-63	1 AP		Gloucester
09:25	9,023	-38	1 HE		Bristol
09:26	9,061	-20	1 HE		Liverpool
09:27	8,885	-47	1 HE		Gloucester
09:28	8,935	-23	1 HE		Bristol
09:29	8,915	-16	1 HE		Bristol
09:31	8,891	-9	1 HE		Bristol
09:32	8,976	279	1 HE		Bristol
09:33	8,718	-88	2 HE		Falmouth
09:34	8,690	-23	2 HE		Falmouth
09:35	8,675	-27	2 HE		Falmouth
09:36	8,651	-33	13 HE		Falmouth
09:37	9,769	276	2 HE		Gloucester
09:38	8,726	124	1 HE		Falmouth
09:39	10,165	197	2 HE		Gloucester
09:40	8,948	109	2 HE		Falmouth
09:41	10,381	75	1 HE		Gloucester
09:42	10,415	44	1 HE		Gloucester
09:43	9,287	114	1 HE		Falmouth
09:44	9,405	116	2 HE		Falmouth
09:45	9,524	116	2 HE		Falmouth
09:46	10,794	22	1 HE		Bristol
09:47	10,837	43	1 HE		Bristol
09:48	10,961	16	1 HE		Bristol
09:49	10,979	-7	1 HE		Bristol
09:50	10,080	127	1 HE		Falmouth
09:51	10,601	-216	1 HE		Gloucester
09:52	10,408	-216	1 HE		Gloucester

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Hochseeflotte, Thurigen, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:54	9,910	-193	1 HE		Gloucester
09:55	9,656	-70	1 HE		Falmouth
09:56	9,910	-192	1 HE		Bristol
09:57	9,374	-115	1 HE		Falmouth
09:59	9,253	-158	2 HE		Gloucester
10:00	9,096	-157	2 HE		Gloucester
10:01	8,939	-157	1 HE		Gloucester
10:02	8,809	-129	7 HE		Gloucester
10:03	8,707	166	1 HE		Gloucester
10:04	8,948	-122	1 HE		Bristol
10:05	8,678	-82	1 HE		Gloucester
10:06	8,451	-11	1 HE		Falmouth
10:07	8,745	130	1 HE		Gloucester
10:08	9,256	249	1 HE		Bristol
10:09	9,217	302	1 HE		Gloucester
10:10	9,187	343	1 HE		Falmouth
10:11	9,556	396	1 HE		Falmouth
10:13	11,323	531	1 HE		Bristol
10:15	11,541	576	1 HE		Falmouth
10:16	13,067	627	1 HE		Bristol
10:19	14,600	702	1 HE		Gloucester
10:23	16,461	515	1 HE		Natal
15cm/45	Secondary	Total	265 shells	1 hit	0.4%

Hochseeflotte, Ostfriesland

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
08:52	15,470	-1,204	1 SAP			Cochrane
08:54	14,436	-714	1 SAP			Achilles
08:55	13,089	-699	2 SAP			Shannon
08:58	14,918	-494	1 SAP			Bellerophon
08:59	14,376	-496	3 SAP			Bellerophon
09:00	13,862	-503	4 AP			Bellerophon
09:01	13,306	-1,056	1 AP			St. Vincent
09:02	12,774	-429	1 SAP			Collingwood
09:03	12,750	-21	1 SAP			Collingwood
09:04	12,736	-9	9 SAP			Collingwood
09:05	12,710	1	9 SAP			Temeraire
09:06	12,711	-19	8 AP		1 hit	Temeraire
09:07	12,758	-126	12 AP	rapid		Temeraire
09:08	12,634	-123	13 AP	rapid		Temeraire
09:09	12,501	-133	9 AP		1 hit	Temeraire
09:10	12,368	-133	10 AP			Temeraire
09:11	12,238	-130	8 AP		1 hit	Temeraire
09:12	12,087	45	10 AP			Temeraire
09:13	12,132	45	10 AP			Temeraire
09:14	12,177	45	9 AP			Temeraire
09:15	12,218	21	9 AP			Temeraire
09:16	12,237	9	9 AP			Temeraire
09:17	12,170	-67	9 AP			Temeraire
09:18	12,109	-61	10 AP		1 hit	Temeraire
09:19	12,032	-87	8 AP			Temeraire
09:20	11,952	-74	10 AP			Temeraire
09:21	11,878	-74	9 AP		1 hit	Temeraire
09:22	11,804	-73	10 AP			Temeraire
09:23	11,722	-82	9 AP			Temeraire
09:24	11,642	-80	9 AP		1 hit	Temeraire
09:25	11,562	-80	10 AP		1 hit	Temeraire
09:26	11,552	-80	9 AP			Temeraire
09:27	10,899	-72	11 AP			Temeraire
09:28	10,828	-71	11 AP			Temeraire
09:29	10,765	-63	10 AP		2 hits	Temeraire
09:30	10,702	-63	11 AP		1 hit	Temeraire
09:31	11,301	605	10 AP		1 hit	Temeraire
09:32	11,319	19	11 AP			Temeraire
09:33	11,176	-127	11 AP			Temeraire
09:34	10,954	44	11 AP			Temeraire
09:35	11,111	102	10 AP		2 hits	Temeraire
09:36	11,211	100	11 AP		1 hit	Temeraire
09:37	10,953	-243	12 SAP			Temeraire
09:38	11,239	312	10 SAP			Temeraire
09:39	11,597	377	8 SAP			Temeraire
09:40	12,020	458	11 SAP			Temeraire
09:41	11,663	96	8 SAP			Colossus
09:42	11,765	92	9 SAP			Colossus
09:43	11,851	86	9 SAP			Colossus
09:44	11,938	87	9 SAP			Colossus
09:45	12,025	87	10 SAP			Colossus
09:46	12,116	91	9 SAP			Colossus
09:47	12,228	97	6 SAP			Colossus
09:48	12,353	103	9 SAP			Colossus
09:49	12,475	111	7 SAP			Colossus
09:50	12,600	120	7 SAP			Colossus
09:52	12,472	-174	1 SAP			Collingwood
09:53	12,298	-174	7 SAP			Collingwood
09:54	12,107	-165	8 SAP			Collingwood
09:55	11,999	-167	8 SAP			Collingwood
09:56	11,833	-165	7 SAP			Collingwood
09:57	12,251	419	1 SAP			Collingwood
10:01	12,609	-38	6 SAP		1 hit	St. Vincent
10:02	11,757	384	1 SAP			Collingwood
10:03	11,872	132	1 SAP			Collingwood
10:05	11,114	-146	2 SAP			Collingwood

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Hochseeflotte, Ostfriesland (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
10:06	11,875	63	1 SAP		Neptune
10:07	11,853	148	9 SAP		Neptune
10:08	11,990	157	9 SAP		Neptune
10:09	12,140	166	9 SAP		Neptune
10:10	12,291	168	8 SAP	1 hit	Neptune
10:11	12,484	151	13 SAP rapid	1 hit	Neptune
10:12	12,619	143	17 SAP rapid		Neptune
10:13	12,746	133	8 SAP	1 hit	Neptune
10:14	12,863	122	14 SAP rapid		Neptune
10:15	12,967	109	6 SAP		Neptune
10:16	13,056	95	9 SAP		Neptune
10:17	13,128	80	8 SAP		Neptune
10:18	13,193	63	8 SAP	1 hit	Neptune
10:19	13,278	83	15 SAP rapid	1 hit	Neptune
10:20	13,371	97	15 SAP rapid		Neptune
10:21	13,477	112	9 SAP		Neptune
10:22	13,596	127	7 SAP		Neptune
10:23	13,728	141	8 SAP		Neptune
10:24	13,872	148	7 SAP		Neptune
10:25	14,028	162	7 SAP		Neptune
10:26	14,196	176	8 SAP	1 hit	Neptune
10:27	14,289	97	5 SAP rapid		Neptune
10:28	14,396	112	4 SAP		Neptune
10:29	14,512	121	3 SAP		Neptune
10:30	14,635	129	3 SAP		Neptune
10:31	14,773	146	3 SAP		Neptune
10:32	14,920	155	3 SAP		Neptune
10:33	15,073	163	3 SAP		Neptune
10:34	15,224	163	3 SAP		Neptune
10:35	15,390	171	3 SAP		Neptune
10:36	15,571	187	3 SAP		Neptune
10:37	15,741	179	1 SAP		Neptune
10:38	15,925	187	1 SAP		Neptune
30.5cm/50 Primary Total			736 shells	21 hits	2.9%

Hochseeflotte, Ostfriesland, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:46	15,728	-1,298	1 HE		Falmouth
08:47	14,459	-1,269	1 HE		Falmouth
08:49	11,886	-1,259	2 HE		Falmouth
08:51	9,373	-1,253	2 HE		Falmouth
08:52	13,038	-1,118	1 HE		Liverpool
08:53	7,997	-371	2 HE		Falmouth
08:54	8,781	-430	1 HE		Gloucester
08:55	8,284	-476	1 HE		Gloucester
08:56	7,794	0	2 HE	1 hit	Gloucester
08:57	7,703	-378	1 AP		Gloucester
08:58	7,413	-498	1 AP		Gloucester
08:59	6,923	-540	10 AP		Gloucester
09:00	7,595	35	1 HE		Liverpool
09:01	7,475	-6	2 HE		Falmouth
09:02	7,512	179	2 HE		Falmouth
09:03	7,749	373	1 HE		Bristol
09:04	8,587	464	1 HE		Liverpool
09:05	9,738	770	1 HE		Falmouth
09:06	9,165	578	1 HE		Bristol
09:07	9,745	579	1 HE		Bristol
09:08	8,820	-77	1 HE		Natal
09:09	8,891	105	2 HE		Natal
09:11	10,296	45	1 HE		Bristol
09:12	9,340	106	2 HE		Cochrane
09:14	9,251	-86	2 HE		Cochrane
09:15	9,172	-98	9 HE		Cochrane
09:16	9,083	-98	10 HE	1 hit	Cochrane
09:17	9,073	-8	10 HE		Cochrane
09:18	9,061	-12	11 HE		Cochrane
09:19	9,054	-15	11 HE		Cochrane
09:20	8,980	-1	1 HE		Natal
09:21	8,982	5	1 HE		Natal
09:22	8,987	8	11 HE		Natal
09:23	8,996	11	11 HE		Natal
09:24	9,008	14	11 HE		Natal
09:25	9,012	5	10 HE		Natal
09:26	9,018	8	11 HE	1 hit	Natal
09:27	9,027	11	10 HE		Natal
09:28	8,934	-31	1 AP		Gloucester
09:30	8,889	-14	1 HE		Gloucester
09:31	8,882	-3	1 HE		Gloucester
09:32	9,163	282	1 HE		Bristol
09:33	8,673	-74	2 HE		Falmouth
09:34	8,660	-9	2 HE		Falmouth
09:35	9,990	274	1 HE		Bristol
09:36	9,694	293	1 HE		Gloucester
09:37	10,805	195	1 HE		Liverpool
09:38	8,730	127	2 HE		Falmouth
09:39	8,839	118	1 HE		Falmouth
09:40	10,493	146	2 HE		Gloucester
09:42	9,151	107	2 HE		Falmouth
09:43	9,258	107	2 HE		Falmouth
09:44	9,366	109	1 HE		Falmouth
09:45	10,733	46	1 HE		Gloucester
09:46	9,571	95	2 HE		Falmouth
09:48	9,785	113	2 HE		Falmouth
09:50	11,146	-1	1 HE		Bristol
09:52	10,104	-107	1 HE		Falmouth
09:54	10,439	-192	1 HE		Bristol
09:56	9,897	-79	1 HE		Falmouth
10:01	10,477	-119	1 HE		Gloucester
10:07	10,654	-88	1 HE		Natal
10:08	10,598	-8	5 HE	1 hit	Natal
10:09	10,632	76	6 HE		Natal
10:10	10,742	162	5 HE		Natal
10:11	10,870	253	5 HE		Natal

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Hochseeflotte, Ostfriesland, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
10:12	11,114	288	7 HE		Natal
10:15	12,113	396	1 HE		Gloucester
10:17	12,576	460	1 HE		Falmouth
10:19	13,581	545	1 HE		Falmouth
10:25	16,203	451	1 HE		Natal
15cm/45	Secondary	Total	224 shells	4 hits	1.8%

Hochseeflotte, Helgoland

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
08:52	16,012	-1,211	1 SAP			Cochrane
08:54	14,209	-726	1 SAP			Shannon
08:55	13,312	-714	2 SAP			Shannon
08:56	12,395	-747	11 SAP			Shannon
08:58	15,421	-475	2 SAP			Superb
08:59	14,895	-485	2 SAP			Superb
09:00	14,399	-480	3 SAP			Superb
09:01	13,973	-406	4 AP			Superb
09:02	13,242	-511	1 AP			St. Vincent
09:03	12,738	-425	7 AP			St. Vincent
09:04	12,766	-22	8 AP			St. Vincent
09:05	12,751	-17	9 AP			St. Vincent
09:06	12,726	-17	11 AP			Colossus
09:07	12,637	-89	10 AP			Colossus
09:08	12,540	-97	10 AP		1 hit	Colossus
09:09	12,446	-93	15 AP	rapid	1 hit	Colossus
09:10	12,323	-123	14 AP	rapid		Colossus
09:11	12,210	-62	10 AP			Colossus
09:12	12,234	24	10 AP			Colossus
09:13	12,258	24	10 AP		1 hit	Colossus
09:14	12,291	33	14 AP	rapid	2 hits	Colossus
09:15	12,321	9	11 AP	rapid		Colossus
09:16	12,329	-33	10 AP			Colossus
09:17	12,252	-77	10 AP			Colossus
09:18	12,181	-71	10 AP			Colossus
09:19	12,093	-97	9 AP			Colossus
09:20	11,971	-76	10 AP		1 hit	Colossus
09:21	11,896	-74	8 AP		1 hit	Colossus
09:22	11,822	-74	11 AP		1 hit	Colossus
09:23	11,738	-82	10 AP			Colossus
09:24	11,656	-82	11 AP			Colossus
09:25	11,575	-80	10 AP			Colossus
09:26	11,495	-80	11 AP			Colossus
09:27	11,296	-198	11 AP			Colossus
09:28	10,589	-71	8 AP			Colossus
09:29	10,526	-63	13 AP		2 hits	Colossus
09:30	10,463	-63	11 AP			Colossus
09:31	10,400	-63	10 AP			Colossus
09:32	10,346	65	10 AP		1 hit	Colossus
09:33	10,411	293	13 SAP			Colossus
09:34	10,862	85	12 SAP			Colossus
09:35	10,947	87	7 SAP			Colossus
09:36	11,039	90	9 SAP			Colossus
09:37	11,132	94	7 SAP			Colossus
09:38	11,225	94	7 SAP			Colossus
09:39	11,332	99	8 SAP			Colossus
09:40	11,429	98	8 SAP			Colossus
09:41	11,161	99	8 SAP			Superb
09:42	11,278	130	8 SAP			Superb
09:43	11,653	94	7 SAP		1 hit	Collingwood
09:44	11,753	97	7 SAP			Collingwood
09:45	11,857	97	9 SAP			Collingwood
09:46	11,956	77	7 SAP			Bellerophon
09:47	12,033	78	7 SAP			Bellerophon
09:48	12,114	82	7 SAP		1 hit	Bellerophon
09:49	12,198	85	10 SAP	rapid	1 hit	Bellerophon
09:50	12,279	83	8 SAP	rapid		Bellerophon
09:51	12,564	99	6 SAP			Colossus
09:52	12,671	-174	6 SAP		1 hit	Colossus
09:53	12,497	-174	11 SAP	rapid		Colossus
09:54	12,306	-165	7 SAP		1 hit	Colossus
09:55	12,198	-167	7 SAP			Colossus
09:56	14,063	-137	1 SAP			Temeraire
09:57	13,915	-147	6 SAP			Temeraire
09:58	13,755	-159	5 SAP			Temeraire
09:59	13,604	-150	6 SAP			Temeraire

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Hochseeflotte, Helgoland (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
10:00	13,490	-135	5 SAP		Temeraire
10:01	13,353	-120	6 SAP		Temeraire
10:02	13,237	-108	7 SAP		Temeraire
10:03	13,142	-93	6 SAP		Temeraire
10:04	13,070	-69	7 SAP	1 hit	Temeraire
10:05	13,022	-48	12 SAP rapid		Temeraire
10:06	11,377	259	1 SAP		Neptune
10:07	11,548	293	9 SAP		Neptune
10:08	11,824	287	9 SAP		Neptune
10:09	12,094	286	8 SAP		Neptune
10:10	12,360	276	8 SAP		Neptune
10:11	12,616	263	9 SAP		Neptune
10:12	12,860	250	8 SAP	1 hit	Neptune
10:13	13,089	235	13 SAP rapid		Neptune
10:14	13,300	219	8 SAP		Neptune
10:15	13,493	201	7 SAP	1 hit	Neptune
10:16	13,665	176	8 SAP rapid		Neptune
10:17	13,815	157	2 SAP		Neptune
10:18	13,967	143	2 SAP		Neptune
10:19	14,143	169	2 SAP		Neptune
10:20	14,319	183	2 SAP		Neptune
10:21	14,505	190	3 SAP		Neptune
10:22	14,702	203	2 SAP		Neptune
10:23	14,908	210	2 SAP		Neptune
10:24	15,124	223	2 SAP		Neptune
10:41	14,278	203	4 AP		Colossus
10:42	14,478	255	5 AP		Colossus
10:43	14,739	267	4 AP		Colossus
30.5cm/50 Primary Total			704 shells	19 hits	2.7%

Hochseeflotte, Helgoland, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:46	16,200	-1,307	1 HE		Falmouth
08:49	13,617	-1,227	1 HE		Gloucester
08:51	9,891	-1,249	2 HE		Falmouth
08:53	9,501	-481	2 HE		Gloucester
08:55	8,574	-461	2 HE		Gloucester
08:56	8,749	-1,110	1 HE		Liverpool
08:57	10,196	-1,057	1 HE		Bristol
08:58	7,989	21	1 HE		Liverpool
08:59	7,847	83	2 HE		Falmouth
09:00	7,540	13	1 HE		Bristol
09:01	7,654	224	2 HE		Bristol
09:02	7,823	110	2 HE		Bristol
09:03	7,937	118	1 HE		Bristol
09:04	8,315	431	1 HE		Bristol
09:05	9,620	739	2 HE		Falmouth
09:06	9,303	551	1 HE		Bristol
09:07	8,976	-69	1 HE		Natal
09:08	8,908	-67	12 HE		Natal
09:09	10,307	38	1 HE		Bristol
09:10	10,201	35	1 HE		Gloucester
09:11	9,354	115	1 HE		Cochrane
09:12	9,462	108	1 HE		Cochrane
09:13	10,785	-31	2 HE		Falmouth
09:14	9,430	-77	1 HE		Achilles
09:15	9,363	-86	2 HE		Achilles
09:16	9,290	-82	7 HE		Achilles
09:17	9,285	-4	10 HE		Achilles
09:18	9,274	-10	10 HE		Achilles
09:19	9,272	-11	11 HE	1 hit	Achilles
09:20	9,472	-40	1 AP		Liverpool
09:21	9,044	14	1 HE		Natal
09:22	9,059	17	2 HE		Natal
09:23	9,076	20	11 HE		Natal
09:24	9,197	19	1 HE		Cochrane
09:25	9,218	22	11 HE		Cochrane
09:26	9,242	25	11 HE		Cochrane
09:27	9,268	28	8 HE		Cochrane
09:28	9,132	-106	1 AP		Falmouth
09:29	9,028	-101	2 AP		Falmouth
09:30	8,931	-92	10 AP		Falmouth
09:31	8,841	-88	12 AP	1 hit	Falmouth
09:32	8,717	-120	13 AP		Falmouth
09:33	9,046	169	1 AP		Gloucester
09:34	8,659	9	2 HE		Falmouth
09:35	10,207	276	1 HE		Bristol
09:36	9,888	296	1 HE		Gloucester
09:38	10,373	234	2 HE		Gloucester
09:39	10,933	87	1 HE		Bristol
09:40	10,979	45	1 HE		Bristol
09:41	9,060	99	1 HE		Falmouth
09:42	9,158	101	2 HE		Falmouth
09:43	10,782	51	1 HE		Gloucester
09:44	9,360	103	2 HE		Falmouth
09:45	9,465	105	1 HE		Falmouth
09:46	9,559	93	2 HE		Falmouth
09:47	9,662	104	1 HE		Falmouth
09:48	11,028	-24	1 HE		Gloucester
09:49	9,918	143	1 HE		Falmouth
09:51	11,276	15	1 HE		Bristol
09:53	11,099	-217	1 HE		Bristol
09:54	10,167	-50	1 HE		Falmouth
09:55	10,842	-191	1 HE		Bristol
09:56	10,553	-192	1 HE		Cochrane
09:57	10,341	-211	8 HE		Cochrane
09:58	10,125	-224	7 HE		Cochrane
09:59	9,882	-243	8 HE		Cochrane

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Hochseeflotte, Helgoland, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
10:00	9,602	-223	8 HE		Cochrane
10:01	9,437	-204	8 HE		Cochrane
10:02	9,278	-178	7 HE		Cochrane
10:03	9,128	103	7 HE		Cochrane
10:04	9,210	58	6 HE		Cochrane
10:05	8,857	1	1 HE		Falmouth
10:06	8,905	30	2 HE		Natal
10:07	8,970	118	8 HE		Natal
10:08	9,146	220	12 HE		Natal
10:09	9,412	306	11 HE	1 hit	Natal
10:10	9,749	396	11 HE		Natal
10:11	10,166	474	10 HE		Natal
10:12	10,607	496	9 HE		Natal
10:13	11,061	502	9 HE		Natal
10:14	11,550	505	9 HE		Natal
10:15	12,070	536	8 HE	1 hit	Natal
10:16	12,618	565	5 HE		Natal
10:17	13,158	552	7 HE		Natal
10:18	13,702	545	5 HE		Natal
10:19	14,245	549	5 HE		Natal
10:20	14,766	525	1 HE		Natal
10:22	15,756	492	1 HE		Natal
10:24	16,765	515	1 HE		Natal
15cm/45 Secondary	Total	367 shells	4 hits	1.1%	

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
08:53	15,316	-1,249	1 SAP			Cochrane
08:55	14,045	-705	2 SAP			Achilles
08:56	12,634	-747	1 SAP			Shannon
08:57	12,768	-556	1 SAP			Shannon
08:59	15,412	-494	1 SAP			Neptune
09:00	14,802	-496	3 SAP			Neptune
09:01	14,321	-471	3 AP			Neptune
09:02	13,874	-454	2 AP			Neptune
09:03	13,393	-581	2 AP			Neptune
09:04	12,916	-168	5 AP			Neptune
09:05	12,775	-150	11 AP			Neptune
09:06	12,629	-156	9 AP			Superb
09:07	12,679	50	11 AP			Superb
09:08	12,719	40	7 AP		1 hit	Superb
09:09	12,759	40	20 AP	rapid		Superb
09:10	12,798	40	20 AP	rapid		Superb
09:11	12,828	30	10 AP			Superb
09:12	12,684	-144	10 AP		1 hit	Superb
09:13	12,541	-143	20 AP	rapid		Superb
09:14	12,398	-143	14 AP	rapid	1 hit	Superb
09:15	12,264	-153	12 AP		2 hits	Superb
09:16	12,122	-143	20 AP	rapid	3 hits	Superb
09:17	12,036	-86	20 AP	rapid		Superb
09:18	11,943	-93	11 AP		2 hits	Superb
09:19	11,858	-94	20 AP	rapid	1 hit	Superb
09:20	11,783	-75	20 AP	rapid		Superb
09:21	11,700	-83	13 AP			Superb
09:22	11,617	-83	20 AP	rapid	2 hits	Superb
09:23	11,474	-56	20 AP	rapid	2 hits	Superb
09:24	11,425	-49	12 AP		1 hit	Superb
09:25	11,376	-48	20 SAP	rapid		Superb
09:26	11,328	-48	19 SAP	rapid	1 hit	Superb
09:27	11,280	-48	12 SAP		1 hit	Superb
09:28	11,233	-51	19 SAP	rapid	5 hits	Superb
09:29	11,182	-51	20 SAP	rapid	3 hits	Superb
09:30	11,261	80	10 SAP			Superb
09:31	11,329	67	20 SAP	rapid	2 hits	Superb
09:32	11,385	56	18 SAP	rapid	1 hit	Superb
09:33	11,429	44	10 SAP			Superb
09:34	11,463	35	20 SAP	rapid	3 hits	Superb
09:35	11,489	27	20 SAP	rapid	2 hits	Superb
09:36	11,506	20	13 SAP		1 hit	Superb
09:37	11,146	-353	20 SAP	rapid	1 hit	Superb
09:38	11,053	-69	20 SAP	rapid	3 hits	Superb
09:39	11,023	-4	11 SAP			Superb
09:40	11,037	34	20 SAP	rapid	7 hits	Superb
09:41	11,603	57	13 SAP			Bellerophon
09:42	11,660	60	14 SAP			Bellerophon
09:43	11,720	63	13 SAP		1 hit	Bellerophon
09:44	11,784	66	20 SAP	rapid		Bellerophon
09:45	11,851	69	18 SAP	rapid	1 hit	Bellerophon
09:46	11,878	77	14 SAP		1 hit	Neptune
09:47	11,955	78	20 SAP	rapid	1 hit	Neptune
09:48	12,036	82	8 SAP	rapid		Neptune
09:49	12,119	85	6 SAP			Neptune
09:50	12,201	83	9 SAP	rapid	2 hits	Neptune
09:51	12,279	78	10 SAP	rapid	1 hit	Neptune
10:41	13,558	190	5 AP		1 hit	Collingwood
10:42	13,692	242	8 AP	rapid	1 hit	Collingwood
30.5cm/50 Primary Total			751 shells		55 hits	7.3%

Hochseeflotte, Oldenburg, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:48	14,147	-1,217	1 HE		Falmouth
08:49	14,174	-1,194	1 HE		Gloucester
08:52	9,501	-910	2 HE		Falmouth
08:53	10,089	-744	1 HE		Gloucester
08:54	11,498	-1,241	1 HE		Liverpool
08:55	7,491	-327	18 HE	1 hit	Falmouth
08:56	9,174	-1,108	1 AP		Liverpool
08:57	8,234	200	1 HE		Falmouth
08:58	8,323	-515	1 HE		Gloucester
08:59	7,830	-579	2 HE		Gloucester
09:00	7,910	49	1 HE		Bristol
09:01	8,022	226	2 HE		Bristol
09:02	8,495	20	1 HE		Falmouth
09:03	8,577	119	1 HE		Falmouth
09:04	9,010	387	1 HE		Liverpool
09:05	9,474	728	2 HE		Falmouth
09:06	9,165	-103	11 HE		Natal
09:07	9,098	-64	10 HE		Natal
09:08	9,029	-66	12 HE		Natal
09:09	9,107	112	2 HE		Natal
09:10	9,222	116	12 HE		Natal
09:11	9,328	106	10 HE		Natal
09:12	9,434	107	10 HE		Natal
09:13	9,543	109	11 HE	1 hit	Natal
09:14	9,490	-80	12 HE		Natal
09:15	9,419	-90	10 HE	1 hit	Natal
09:16	9,340	-78	11 HE	1 hit	Natal
09:17	9,320	-18	10 HE		Natal
09:18	9,295	-25	12 HE		Natal
09:19	9,279	-25	10 HE		Natal
09:20	9,706	-64	1 AP		Bristol
09:21	9,634	-71	1 AP		Bristol
09:22	9,569	-55	8 AP		Bristol
09:23	9,451	-23	5 AP		Bristol
09:24	9,440	-9	7 AP		Bristol
09:25	9,434	-5	8 AP		Bristol
09:26	9,432	2	6 AP		Bristol
09:27	9,435	6	5 AP		Bristol
09:28	9,072	-92	1 AP		Falmouth
09:29	9,634	24	1 HE		Liverpool
09:30	9,661	28	2 HE		Liverpool
09:31	8,823	-70	2 HE		Falmouth
09:32	8,714	-107	15 HE		Falmouth
09:33	9,887	278	1 HE		Bristol
09:34	8,687	23	1 HE		Falmouth
09:35	10,816	279	1 HE		Liverpool
09:36	10,721	278	1 HE		Bristol
09:37	10,942	196	2 HE		Bristol
09:38	10,188	165	1 HE		Natal
09:39	11,165	82	1 HE		Bristol
09:40	9,012	91	1 HE		Falmouth
09:41	9,103	93	1 HE		Falmouth
09:42	9,192	95	13 HE		Falmouth
09:43	10,970	46	1 HE		Gloucester
09:44	11,011	33	1 HE		Gloucester
09:45	11,033	35	1 HE		Gloucester
09:46	11,023	3	1 HE		Gloucester
09:47	11,241	-3	1 HE		Gloucester
09:48	11,189	-32	1 HE		Gloucester
09:49	11,191	-12	6 HE		Gloucester
09:50	11,190	2	6 AP		Gloucester
09:51	11,203	15	6 AP		Gloucester
09:52	11,475	-217	4 AP		Gloucester
09:53	10,625	-66	1 HE		Falmouth
09:54	10,968	-192	1 HE		Gloucester
09:55	11,000	-191	1 HE		Gloucester

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Hochseeflotte, Oldenburg, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:56	10,599	-57	2 HE		Falmouth
09:58	10,169	-160	2 HE		Falmouth
09:59	10,605	-252	1 HE		Liverpool
10:00	10,299	-225	1 HE		Liverpool
10:01	9,904	-200	1 HE		Bristol
10:02	9,321	-165	1 HE		Falmouth
10:03	9,209	55	1 HE		Falmouth
10:04	9,773	-159	2 HE		Liverpool
10:05	9,667	-67	1 HE		Liverpool
10:06	9,664	36	1 HE		Liverpool
10:07	9,744	115	6 HE		Liverpool
10:08	9,930	205	5 HE		Liverpool
10:09	10,195	288	6 HE		Liverpool
10:10	10,508	343	7 HE		Liverpool
10:11	10,878	396	6 HE		Liverpool
10:12	11,300	447	7 HE		Liverpool
10:13	10,535	434	1 HE		Falmouth
10:15	11,931	531	1 HE		Gloucester
10:16	12,035	554	1 HE		Falmouth
10:17	13,068	597	1 HE		Gloucester
10:19	14,350	671	1 HE		Gloucester
10:22	16,069	485	1 HE		Cochrane
10:24	16,559	500	1 HE		Natal
15cm/45	Secondary	Total	353 shells	4 hits	1.1%

Hochseeflotte, Blucher

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
08:45	16,006	-1,166	1 SAP			Bristol
08:47	14,431	-1,165	1 SAP			Liverpool
08:48	13,234	-1,195	1 SAP			Liverpool
08:50	15,910	-1,287	1 SAP			Cochrane
08:52	13,834	-1,282	1 SAP			Natal
08:53	15,840	-1,276	1 SAP			Superb
08:55	10,958	-1,249	1 SAP			Cochrane
08:56	14,282	-1,204	1 SAP			Collingwood
08:57	8,617	-203	4 SAP			Achilles
08:58	8,650	45	15 SAP		1 hit	Achilles
08:59	8,670	21	26 AP	rapid		Achilles
09:00	8,679	9	14 AP		2 hits	Achilles
09:01	8,676	-3	31 AP	rapid	1 hit	Achilles
09:02	8,720	-78	28 AP	rapid		Achilles
09:03	12,314	68	1 AP			Collingwood
09:04	12,397	82	2 AP			Collingwood
09:05	8,198	-85	2 SAP			Shannon
09:07	12,638	-117	1 SAP			Collingwood
09:08	12,508	-130	10 SAP			Collingwood
09:09	12,381	-126	8 SAP			Collingwood
09:10	12,269	-112	10 AP			Collingwood
09:11	12,213	39	8 AP			Collingwood
09:12	12,361	148	9 AP			Collingwood
09:13	12,489	128	9 AP			Collingwood
09:14	12,597	109	9 AP		2 hits	Collingwood
09:15	12,706	109	18 AP	rapid	1 hit	Collingwood
09:16	12,715	-41	14 AP	rapid		Collingwood
09:17	12,416	-42	8 AP			Collingwood
09:18	12,365	-50	9 AP			Collingwood
09:19	12,315	-50	7 AP			Collingwood
09:20	12,265	-50	9 AP			Collingwood
09:21	12,215	-50	9 AP			Collingwood
09:22	12,165	-50	9 AP			Collingwood
09:23	12,123	-41	8 AP		1 hit	Collingwood
09:24	12,373	-68	19 AP	rapid		Collingwood
09:25	12,265	-88	9 AP			Collingwood
09:26	12,177	-88	9 AP			Collingwood
09:27	12,089	-88	8 SAP			Collingwood
09:28	12,001	-88	10 SAP			Collingwood
09:29	11,936	-66	9 SAP			Collingwood
09:30	11,870	-66	8 SAP			Collingwood
09:31	11,804	-66	10 SAP			Collingwood
09:32	11,667	-114	11 SAP			Collingwood
09:33	12,111	102	10 SAP			Collingwood
09:34	12,283	156	9 SAP		1 hit	Collingwood
09:35	12,368	138	20 SAP	rapid	1 hit	Collingwood
09:36	12,541	156	19 SAP	rapid	1 hit	Collingwood
09:37	12,697	157	9 SAP			Collingwood
09:38	12,836	139	9 SAP			Collingwood
09:39	13,001	143	8 SAP			Collingwood
09:40	12,929	160	8 SAP		1 hit	Collingwood
09:41	13,089	160	20 SAP	rapid		Collingwood
09:42	13,294	184	8 SAP			Collingwood
09:43	13,478	184	8 SAP			Collingwood
09:44	13,662	186	7 SAP			Collingwood
09:45	13,848	186	8 SAP			Collingwood
09:46	14,035	187	7 SAP			Collingwood
09:47	13,632	-399	4 SAP		1 hit	Collingwood
09:48	13,005	-645	6 SAP			Collingwood
09:49	12,435	-590	10 SAP		1 hit	Collingwood
09:50	11,925	-509	11 SAP			Collingwood
09:51	11,418	-505	11 SAP		1 hit	Collingwood
09:52	11,310	-72	19 SAP	rapid		Collingwood
09:53	11,196	-79	9 SAP			Collingwood
09:54	11,105	-90	12 SAP			Collingwood
09:55	11,018	-87	11 SAP			Collingwood

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Hochseeflotte, Blucher (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:56	10,933	-84	12 SAP		Collingwood
09:57	10,850	-81	12 SAP		Collingwood
09:58	10,695	-116	12 SAP		Collingwood
09:59	10,579	-116	12 SAP		Collingwood
10:00	10,464	-114	12 SAP		Collingwood
10:01	10,350	-112	10 SAP		Collingwood
10:36	15,065	306	1 AP		Collingwood
10:38	16,186	346	1 AP		Collingwood
10:39	16,533	351	3 AP		Collingwood
10:40	16,885	355	3 AP		Collingwood
10:41	17,239	355	2 AP		Collingwood
10:43	16,915	-290	1 AP		Collingwood
10:44	16,629	-284	3 AP		Collingwood
10:45	16,327	-300	4 AP	1 hit	Collingwood
10:46	16,013	-308	9 AP rapid		Collingwood
21cm/45 Primary Total			719 shells	16 hits	2.2%

Hochseeflotte, Blucher, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:45	16,006	-1,166	1 SAP		Bristol
08:48	13,234	-1,195	1 HE		Liverpool
08:50	10,649	-1,324	2 HE		Liverpool
08:52	9,107	-596	2 HE		Bristol
08:53	8,117	-944	9 HE		Bristol
08:54	7,229	-319	8 HE		Bristol
08:55	7,019	145	11 AP		Bristol
08:56	6,222	-692	13 AP		Bristol
08:57	5,201	-1,311	4 AP		Bristol
08:58	4,244	-900	15 AP	3 hits	Bristol
08:59	3,474	-639	21 AP	4 hits	Bristol
09:00	3,242	629	23 AP		Bristol
09:01	4,319	605	16 AP		Liverpool
09:02	5,092	789	11 AP		Liverpool
09:03	5,972	890	10 AP		Liverpool
09:04	6,888	926	2 AP		Liverpool
09:05	7,820	938	1 AP		Liverpool
09:06	9,109	1,289	1 AP		Liverpool
09:07	9,757	648	1 AP		Liverpool
09:08	9,723	-34	2 AP		Liverpool
09:09	9,913	0	1 HE		Bristol
09:10	8,546	47	8 HE		Shannon
09:11	8,593	47	9 HE		Shannon
09:12	8,576	-17	1 HE		Shannon
09:13	8,542	-33	9 HE	1 hit	Shannon
09:14	8,492	-50	5 HE		Shannon
09:15	8,443	-48	9 HE		Shannon
09:16	8,395	-47	8 HE		Shannon
09:17	8,348	-47	9 HE		Shannon
09:18	8,292	-55	7 HE		Shannon
09:19	8,237	-55	8 HE	1 hit	Shannon
09:20	8,415	-58	2 HE		Achilles
09:21	8,461	-136	1 HE		Liverpool
09:22	12,149	-178	1 HE		Falmouth
09:23	8,220	-115	1 HE		Liverpool
09:24	12,172	-213	1 HE		Falmouth
09:25	8,151	-155	1 HE		Liverpool
09:26	7,996	-152	2 HE		Liverpool
09:27	8,109	-157	1 HE		Bristol
09:28	7,820	-71	1 HE		Shannon
09:29	7,773	-46	8 HE	1 hit	Shannon
09:30	7,645	-150	1 AP		Bristol
09:31	7,496	-147	2 AP		Bristol
09:32	7,447	161	1 AP		Bristol
09:33	7,608	157	6 AP		Bristol
09:34	7,768	165	5 AP		Bristol
09:35	7,935	169	6 AP		Bristol
09:36	8,108	176	6 AP	1 hit	Bristol
09:37	8,270	129	5 AP		Bristol
09:38	8,400	129	6 AP		Bristol
09:39	8,551	127	2 AP		Liverpool
09:40	8,667	116	6 AP		Liverpool
09:41	8,784	118	8 AP		Liverpool
09:42	8,900	111	7 AP	1 hit	Liverpool
09:43	9,010	111	7 AP		Liverpool
09:44	9,123	113	8 AP		Liverpool
09:45	9,236	115	7 AP		Liverpool
09:46	9,317	107	6 AP		Liverpool
09:47	8,826	-490	5 AP		Liverpool
09:50	7,130	-528	8 HE		Liverpool
09:51	6,604	-525	8 AP		Liverpool
09:52	6,156	-202	11 AP		Liverpool
09:53	6,135	-172	9 AP	1 hit	Gloucester
09:54	5,971	-164	9 AP		Gloucester
09:55	5,809	-162	11 AP		Gloucester
09:56	5,649	-160	11 AP	1 hit	Gloucester

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Hochseeflotte, Blucher, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:57	5,491	-156	12 AP		Gloucester
09:59	5,038	-166	13 HE		Bristol
10:00	4,871	-166	14 AP		Bristol
10:01	4,706	-166	14 AP	1 hit	Bristol
10:02	4,526	-180	9 AP		Bristol
10:03	4,849	455	6 AP		Bristol
10:04	5,204	433	6 AP		Bristol
10:05	5,707	544	6 AP		Bristol
10:07	7,041	721	2 HE		Bristol
10:08	7,753	736	1 HE		Bristol
10:09	8,582	738	2 HE		Natal
10:10	9,231	759	1 HE		Bristol
10:11	9,500	772	2 HE		Gloucester
10:12	10,281	783	1 HE		Gloucester
10:14	12,367	799	1 HE		Bristol
10:15	12,671	808	1 HE		Gloucester
10:17	14,576	725	1 HE		Natal
10:19	15,539	865	1 HE		Falmouth
15cm/45	Secondary	Total	501 shells	15 hits	3%

Hochseeflotte, Roon

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
08:46	15,438	-1,099	1 SAP			Bristol
08:49	12,638	-1,239	1 SAP			Liverpool
08:51	15,021	-1,280	1 SAP			Cochrane
08:53	13,014	-1,269	1 SAP			Natal
08:54	12,588	-1,138	1 SAP			Cochrane
08:55	11,943	-1,249	1 SAP			Natal
08:56	9,652	-1,150	2 SAP			Achilles
08:58	8,335	26	7 SAP			Shannon
08:59	8,352	18	8 SAP			Shannon
09:00	8,361	9	8 SAP			Shannon
09:01	8,362	0	7 AP			Shannon
09:02	8,218	-79	9 AP			Shannon
09:03	8,135	-96	7 AP		1 hit	Shannon
09:04	8,067	-82	12 AP	rapid		Shannon
09:05	7,981	-99	8 AP			Shannon
09:06	7,882	-99	8 AP			Shannon
09:07	8,289	34	8 AP			Shannon
09:08	8,307	28	8 AP			Shannon
09:09	8,338	40	9 AP			Shannon
09:10	8,387	40	8 AP			Shannon
09:11	8,436	49	8 AP			Shannon
09:12	8,332	-16	8 AP		1 hit	Shannon
09:13	8,301	-30	13 AP	rapid		Shannon
09:14	8,256	-45	9 AP			Shannon
09:15	8,212	-44	8 AP			Shannon
09:16	8,169	-42	8 AP			Shannon
09:17	8,126	-42	9 AP		1 hit	Shannon
09:18	8,083	-50	10 AP	rapid		Shannon
09:19	8,033	-49	9 SAP			Shannon
09:20	7,984	-49	9 SAP		1 hit	Shannon
09:21	7,936	-47	13 SAP	rapid	2 hits	Shannon
09:22	7,889	-47	13 SAP	rapid	1 hit	Shannon
09:23	7,834	-47	7 SAP			Shannon
09:24	7,777	-56	9 SAP			Shannon
09:25	7,722	-56	10 SAP			Shannon
09:26	7,678	-44	9 SAP			Shannon
09:27	7,634	-44	9 SAP		1 hit	Shannon
09:28	7,602	-32	10 SAP			Shannon
09:29	7,607	-21	7 SAP			Shannon
09:30	7,566	-30	10 SAP			Shannon
09:31	7,527	-38	9 SAP			Shannon
09:32	7,809	282	8 SAP			Shannon
09:33	8,130	331	8 SAP			Shannon
09:34	8,406	276	8 SAP			Shannon
09:35	8,674	268	6 SAP		1 hit	Shannon
09:36	8,942	268	11 SAP	rapid		Shannon
09:37	9,073	131	6 SAP			Shannon
09:38	9,206	133	6 SAP			Shannon
09:39	9,349	134	6 SAP			Shannon
09:40	9,475	126	6 SAP		1 hit	Shannon
09:41	9,602	128	13 SAP	rapid		Shannon
09:42	9,735	111	3 SAP			Shannon
21cm/40	Primary Total		393 shells	10 hits	2.5%	

Hochseeflotte, Roon, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:49	12,638	-1,239	1 HE		Liverpool
08:53	13,014	-1,269	1 HE		Natal
08:54	12,588	-1,138	1 HE		Cochrane
08:55	11,943	-1,249	1 HE		Natal
08:56	9,652	-1,150	1 HE		Achilles
08:58	8,335	26	10 HE		Shannon
08:59	8,352	18	9 HE		Shannon
09:00	8,361	9	9 HE		Shannon
09:01	8,362	0	9 HE		Shannon
09:02	8,218	-79	7 HE		Shannon
09:03	8,135	-96	8 HE		Shannon
09:04	8,067	-82	7 HE		Shannon
09:05	7,981	-99	7 HE		Shannon
09:06	7,882	-99	8 HE		Shannon
09:07	8,289	34	9 HE	1 hit	Shannon
09:08	8,307	28	10 HE		Shannon
09:09	8,338	40	9 HE		Shannon
09:10	8,387	40	10 HE		Shannon
09:11	8,436	49	10 HE		Shannon
09:12	8,332	-16	7 HE		Shannon
09:13	8,301	-30	7 HE		Shannon
09:14	8,256	-45	8 HE		Shannon
09:15	8,212	-44	7 HE		Shannon
09:16	8,169	-42	6 HE		Shannon
09:17	8,126	-42	8 HE		Shannon
09:18	8,083	-50	8 HE		Shannon
09:19	8,033	-49	8 HE		Shannon
09:20	7,984	-49	8 HE		Shannon
09:21	7,936	-47	8 HE		Shannon
09:22	7,889	-47	7 HE		Shannon
09:23	7,834	-47	8 HE		Shannon
09:24	7,777	-56	9 HE		Shannon
09:25	7,722	-56	10 HE	1 hit	Shannon
09:26	7,678	-44	8 HE		Shannon
09:27	7,634	-44	11 HE		Shannon
09:28	7,602	-32	11 HE		Shannon
09:29	7,607	-21	11 HE		Shannon
09:30	7,566	-30	11 HE		Shannon
09:31	7,527	-38	11 HE	1 hit	Shannon
09:32	7,809	282	10 HE		Shannon
09:33	8,130	331	9 HE		Shannon
09:34	8,406	276	8 HE		Shannon
09:35	8,674	268	8 HE		Shannon
09:36	8,942	268	7 HE		Shannon
09:37	9,073	131	8 HE	1 hit	Shannon
09:38	9,206	133	8 HE		Shannon
09:39	9,349	134	7 HE		Shannon
09:40	9,475	126	7 HE		Shannon
09:41	9,602	128	7 HE		Shannon
09:42	9,735	111	7 HE		Shannon
09:43	9,790	118	7 HE		Shannon
09:52	7,464	-466	9 HE		Shannon
09:57	13,175	-87	1 HE		Collingwood
09:58	6,341	-162	11 HE	1 hit	Shannon
10:00	12,677	-121	2 HE		Collingwood
10:01	12,511	-118	4 HE		Collingwood
10:02	5,869	-169	15 HE	1 hit	Achilles
10:03	11,747	-65	1 HE		Collingwood
10:04	12,114	-36	5 HE		Collingwood
10:05	7,422	480	2 HE		Shannon
10:06	7,955	549	1 HE		Shannon
10:07	8,555	616	2 HE		Shannon
10:09	9,358	686	1 HE		Achilles
10:11	10,860	778	1 HE		Achilles
10:12	12,110	755	1 HE		Shannon
10:13	12,835	727	1 HE		Shannon

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Hochseeflotte, Roon, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
10:14	13,068	737	1 HE		Achilles
10:15	12,809	742	1 HE		Natal
15cm/40	Secondary	Total	451 shells	6 hits	1.3%

Hochseeflotte, Yorck

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
08:47	15,493	-990	1 SAP			Bristol
08:50	12,886	-1,210	1 SAP			Liverpool
08:51	11,667	-1,218	1 SAP			Liverpool
08:52	10,574	-1,088	1 SAP			Liverpool
08:53	9,562	-1,010	1 SAP			Liverpool
08:55	16,436	-1,200	1 SAP			Bellerophon
08:57	11,623	-1,182	1 SAP			Natal
08:58	10,465	-302	1 SAP			Achilles
09:00	9,511	-644	2 SAP			Achilles
09:01	8,883	-586	2 SAP			Achilles
09:02	8,278	-489	1 SAP			Achilles
09:03	7,779	-226	7 SAP			Achilles
09:04	7,552	-123	8 SAP		1 hit	Achilles
09:05	7,418	-62	11 AP	rapid		Achilles
09:06	7,326	-92	8 AP			Achilles
09:07	7,283	201	9 AP			Achilles
09:08	7,484	241	9 AP			Achilles
09:09	7,726	161	8 AP			Achilles
09:10	7,888	130	6 AP			Achilles
09:11	8,026	126	8 AP			Achilles
09:12	8,098	-123	8 AP		1 hit	Achilles
09:13	7,971	-138	13 AP	rapid		Achilles
09:14	7,830	-151	6 AP			Achilles
09:15	7,680	-160	9 AP			Achilles
09:16	7,655	-24	6 AP		2 hits	Achilles
09:17	7,631	-24	16 AP	rapid		Achilles
09:18	7,608	-33	8 AP			Achilles
09:19	7,576	-31	7 AP			Achilles
09:20	7,545	-29	9 AP		2 hits	Achilles
09:21	7,521	-24	15 AP	rapid	1 hit	Achilles
09:22	7,498	-22	13 SAP	rapid		Achilles
09:23	7,467	-40	9 SAP		1 hit	Achilles
09:24	7,428	-38	14 SAP	rapid	2 hits	Achilles
09:25	7,391	-36	14 SAP	rapid	2 hits	Achilles
09:26	7,359	-32	9 SAP			Achilles
09:27	7,327	-31	8 SAP			Achilles
09:28	7,300	-27	15 SAP	rapid	3 hits	Achilles
09:29	7,281	-11	15 SAP	rapid		Achilles
09:30	7,273	-7	9 SAP			Achilles
09:31	7,266	-7	9 SAP			Achilles
09:32	7,315	306	9 SAP			Achilles
09:33	7,601	350	8 SAP		1 hit	Achilles
09:34	7,937	298	14 SAP	rapid		Achilles
09:35	8,232	296	8 SAP			Achilles
09:36	8,532	304	8 SAP			Achilles
09:37	8,827	298	6 SAP			Achilles
09:38	9,010	178	7 SAP			Achilles
09:39	9,189	180	6 SAP			Achilles
09:40	9,380	165	6 SAP		1 hit	Achilles
09:41	9,500	149	13 SAP	rapid	1 hit	Achilles
09:42	9,649	138	7 SAP	rapid		Achilles
21cm/40	Primary	Total	391 shells	18 hits	4.6%	

Hochseeflotte, Yorck, Secondary

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:49	13,270	-1,152	1 HE		Bristol
08:50	12,886	-1,210	1 HE		Liverpool
08:52	10,574	-1,088	1 HE		Liverpool
08:53	9,562	-1,010	3 HE		Liverpool
08:57	11,623	-1,182	1 HE		Natal
08:58	10,465	-302	1 HE		Achilles
08:59	10,153	-711	1 HE		Achilles
09:00	9,511	-644	1 HE		Achilles
09:01	8,883	-586	6 HE		Achilles
09:02	8,278	-489	1 HE		Achilles
09:03	7,779	-226	7 HE		Achilles
09:04	7,552	-123	11 HE		Achilles
09:05	7,418	-62	10 HE		Achilles
09:06	7,326	-92	10 HE		Achilles
09:07	7,283	201	9 HE		Achilles
09:08	7,484	241	8 HE		Achilles
09:09	7,726	161	10 HE	1 hit	Achilles
09:10	7,888	130	9 HE	1 hit	Achilles
09:11	8,026	126	10 HE		Achilles
09:12	8,098	-123	9 HE		Achilles
09:13	7,971	-138	10 HE		Achilles
09:14	7,830	-151	10 HE	1 hit	Achilles
09:15	7,680	-160	8 HE		Achilles
09:16	7,655	-24	10 HE		Achilles
09:17	7,631	-24	9 HE	1 hit	Achilles
09:18	7,608	-33	10 HE		Achilles
09:19	7,576	-31	10 HE		Achilles
09:20	7,545	-29	10 HE		Achilles
09:21	7,521	-24	11 HE		Achilles
09:22	7,498	-22	10 HE		Achilles
09:23	7,467	-40	8 HE		Achilles
09:24	7,428	-38	8 HE		Achilles
09:25	7,391	-36	10 HE		Achilles
09:26	7,359	-32	11 HE	1 hit	Achilles
09:27	7,327	-31	9 HE		Achilles
09:28	7,300	-27	11 HE		Achilles
09:29	7,281	-11	11 HE		Achilles
09:30	7,273	-7	10 HE	1 hit	Achilles
09:31	7,266	-7	10 HE		Achilles
09:32	7,315	306	9 HE		Achilles
09:33	7,601	350	9 HE		Achilles
09:34	7,937	298	7 HE	1 hit	Achilles
09:35	8,232	296	10 HE		Achilles
09:36	8,532	304	8 HE	1 hit	Achilles
09:37	8,827	298	8 HE		Achilles
09:38	9,010	178	8 HE		Achilles
09:39	9,189	180	7 HE		Achilles
09:40	9,380	165	8 HE		Achilles
09:41	9,500	149	7 HE		Achilles
09:42	9,649	138	7 HE		Achilles
09:43	9,794	130	6 HE		Achilles
09:44	9,769	117	2 HE		Shannon
09:46	10,009	123	1 HE		Shannon
09:47	10,134	126	7 HE		Shannon
09:48	10,275	-454	4 HE		Shannon
09:50	9,278	-617	2 HE		Shannon
09:51	8,663	-626	2 HE		Shannon
09:52	8,158	-517	7 HE		Achilles
09:53	7,624	-422	8 HE		Shannon
09:54	7,228	-344	10 HE	2 hits	Shannon
09:55	7,044	-183	11 HE		Shannon
09:56	6,854	-189	11 HE		Shannon
09:57	6,660	-191	10 HE		Shannon
09:58	6,572	-182	12 HE	1 hit	Achilles
09:59	6,244	-183	14 HE	1 hit	Shannon
10:00	6,079	-175	14 HE		Shannon

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Hochseeflotte, Yorck, Secondary (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
10:01	5,915	-170	14 HE		Shannon
10:02	6,064	-169	15 HE	1 hit	Cochrane
10:03	6,559	318	14 HE		Shannon
10:04	6,900	370	12 HE		Shannon
10:05	6,857	431	12 HE		Achilles
10:06	7,343	512	11 HE		Achilles
10:07	7,903	581	8 HE		Achilles
10:08	9,001	629	1 HE		Shannon
10:09	8,660	665	2 HE		Cochrane
10:10	10,364	719	1 HE		Shannon
10:11	10,125	766	1 HE		Cochrane
10:12	11,362	744	2 HE		Achilles
10:13	12,076	717	1 HE		Achilles
10:14	12,298	727	1 HE		Cochrane
10:15	13,028	732	1 HE		Cochrane
15cm/40	Secondary Total	601 shells	13 hits	2.2%	

Hochseeflotte, Kolberg

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:44	13,347	-1,262	1 HE		Bristol
08:45	13,231	-1,089	6 HE		Liverpool
08:46	12,334	-1,139	1 HE		Gloucester
08:47	11,027	-1,302	1 HE		Gloucester
08:48	13,096	-1,393	1 HE		Shannon
08:49	8,243	-1,410	2 HE		Gloucester
08:50	11,727	-1,425	1 HE		Natal
08:51	4,943	-190	15 HE		Bristol
08:52	5,286	101	16 AP		Bristol
08:53	5,115	0	21 AP		Bristol
08:54	4,283	-434	18 AP		Liverpool
08:55	3,949	-232	23 AP		Liverpool
08:56	2,803	-992	14 AP		Liverpool
08:57	2,762	-32	15 AP		Liverpool
08:58	2,751	41	35 AP		Liverpool
08:59	2,725	29	41 AP	3 hits	Liverpool
09:00	2,571	64	31 AP	4 hits	Liverpool
09:01	3,648	1,157	4 AP		Liverpool
09:02	4,765	1,148	10 AP	1 hit	Liverpool
09:03	6,058	1,311	6 AP		Liverpool
09:04	7,447	1,397	1 AP		Liverpool
09:05	8,852	1,408	1 AP		Liverpool
09:06	9,729	928	2 HE		Shannon
09:08	10,633	-39	1 HE		Shannon
09:09	10,684	52	1 HE		Shannon
09:10	10,700	16	1 HE		Shannon
09:12	10,562	-117	1 HE		Shannon
09:13	10,445	-117	4 HE		Shannon
09:14	10,328	-117	1 HE		Shannon
09:15	10,211	-117	6 HE		Shannon
09:16	10,094	-117	7 HE		Shannon
09:17	9,988	-105	6 HE		Shannon
09:18	9,883	-105	5 HE		Shannon
09:19	9,778	-105	6 HE		Shannon
09:20	9,672	-105	7 HE		Shannon
09:21	9,567	-105	7 HE		Shannon
09:22	9,473	-94	7 HE		Shannon
09:23	9,368	-105	9 HE	1 hit	Shannon
09:24	9,263	-105	9 HE	1 hit	Shannon
09:25	9,157	-105	10 HE	1 hit	Shannon
09:26	9,052	-105	9 HE		Shannon
09:27	8,947	-105	10 HE		Shannon
09:28	8,833	-113	8 HE	1 hit	Shannon
09:29	8,722	-111	9 HE		Shannon
09:30	8,612	-110	9 HE		Shannon
09:31	9,459	855	1 HE		Shannon
09:32	10,451	1,009	2 HE		Shannon
09:33	11,480	1,065	1 HE		Shannon
09:34	12,612	1,093	1 HE		Shannon
09:36	13,271	119	4 HE		Shannon
09:38	12,992	-146	5 HE		Shannon
09:39	12,862	-126	3 HE		Shannon
09:40	12,729	-129	5 HE		Shannon
09:41	12,600	-125	5 HE		Shannon
09:42	12,484	-113	5 HE		Shannon
09:43	12,530	-138	5 HE		Shannon
09:44	12,369	-142	5 HE		Shannon
09:45	12,229	-137	5 HE		Shannon
09:46	12,097	-126	4 HE		Shannon
09:47	11,697	-400	4 HE		Shannon
09:48	11,330	-446	1 AP		Liverpool
09:49	10,870	-405	1 HE		Shannon
09:50	10,487	-429	1 HE		Liverpool
09:51	10,058	-429	1 HE		Liverpool
09:52	9,631	-427	1 HE		Liverpool
09:53	9,205	-425	1 HE		Liverpool

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Hochseeflotte, Kolberg (continued)

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
09:54	8,780	-425	8 HE		Liverpool
09:55	8,357	-423	9 HE		Liverpool
09:56	7,936	-421	9 HE		Liverpool
09:57	7,516	-418	10 AP		Liverpool
09:58	7,124	-404	11 AP		Liverpool
09:59	6,721	-402	14 AP		Liverpool
10:00	6,320	-400	13 AP		Liverpool
10:01	5,921	-397	16 AP		Liverpool
10:02	5,869	-17	1 AP		Liverpool
10:03	5,661	-124	17 AP		Liverpool
10:04	5,649	73	13 AP	1 hit	Liverpool
10:05	6,566	979	8 AP		Liverpool
10:06	7,559	1,033	9 AP		Liverpool
10:07	8,672	1,135	2 AP		Liverpool
10:09	11,081	1,234	7 AP		Liverpool
10:10	12,325	1,251	1 AP		Liverpool
10:11	13,586	1,266	1 AP		Liverpool
10.5cm/45 Primary Total			609 shells	13 hits	2.1%

Hochseeflotte, Augsburg

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:50	12,495	-618	1 HE		Bristol
08:51	12,400	-1,531	1 HE		Gloucester
08:53	9,665	-1,286	2 HE		Gloucester
08:54	9,388	-536	1 HE		Bristol
08:55	8,953	-63	1 HE		Bristol
08:56	7,589	-1,357	3 HE		Bristol
08:57	6,237	-1,280	10 HE		Bristol
08:58	9,656	-845	1 HE		Cochrane
08:59	8,509	-824	1 HE		Shannon
09:00	7,668	-836	10 HE		Shannon
09:01	6,829	-849	6 HE		Shannon
09:02	6,890	171	4 HE	1 hit	Shannon
09:03	6,764	20	9 HE		Shannon
09:04	7,514	736	3 HE		Shannon
09:05	7,893	1,467	2 AP		Bristol
09:06	9,831	1,482	1 HE		Liverpool
09:09	11,753	-36	1 HE		Liverpool
09:10	10,982	18	1 HE		Shannon
09:11	11,635	-76	1 HE		Liverpool
09:13	11,221	-172	1 HE		Liverpool
09:14	10,545	-117	1 HE		Shannon
09:15	10,428	-117	1 HE		Shannon
09:17	10,198	-105	1 HE		Shannon
09:18	10,353	-172	1 HE		Liverpool
09:20	10,010	-171	1 HE		Liverpool
09:21	9,778	-105	1 HE		Shannon
09:22	9,676	-94	6 HE		Shannon
09:23	9,571	-105	9 HE		Shannon
09:24	9,392	-146	1 AP		Liverpool
09:25	9,246	-146	1 AP		Liverpool
09:26	9,100	-146	1 AP		Liverpool
09:27	8,955	-145	10 AP		Liverpool
09:28	8,809	-145	8 AP	1 hit	Liverpool
09:29	8,921	-114	9 HE		Shannon
09:30	8,807	-114	10 HE		Shannon
09:31	9,002	860	2 HE		Shannon
09:32	9,967	1,000	1 HE		Shannon
09:33	10,993	1,057	1 HE		Shannon
09:34	12,074	1,093	1 HE		Shannon
09:38	13,261	-151	1 HE		Shannon
09:40	12,982	-137	1 HE		Shannon
09:41	12,845	-133	1 HE		Shannon
09:44	12,580	-149	1 HE		Liverpool
09:45	12,432	-147	5 HE		Shannon
09:46	12,289	-142	5 HE		Shannon
09:49	11,332	-432	1 HE		Liverpool
09:50	10,662	-427	1 HE		Bristol
09:51	10,236	-427	1 HE		Bristol
09:52	9,810	-425	1 HE		Bristol
09:53	9,386	-423	5 HE		Bristol
09:54	9,182	-427	1 HE		Liverpool
09:55	8,755	-427	1 HE		Liverpool
09:56	8,330	-425	8 HE		Liverpool
09:57	7,905	-423	9 HE		Liverpool
09:58	7,315	-402	13 HE		Bristol
09:59	6,914	-400	14 HE		Bristol
10:00	6,515	-397	15 HE		Bristol
10:01	6,118	-395	18 AP		Bristol
10:02	5,744	-373	16 AP	1 hit	Bristol
10:03	5,926	-193	17 AP		Liverpool
10:04	5,835	2	14 AP	1 hit	Liverpool
10:05	5,827	874	9 AP	1 hit	Bristol
10:06	6,747	971	11 AP		Bristol
10:07	7,809	1,100	2 AP		Bristol
10:08	8,963	1,174	1 AP		Bristol
10:10	11,389	1,242	1 AP		Bristol
10:11	13,117	1,266	1 HE		Liverpool
10.5cm/45 Primary Total 300 shells				5 hits	1.7%

Hochseeflotte, Nurnberg

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:36	12,283	-1,220	2 HE		Gloucester
08:37	10,968	-1,217	1 HE		Gloucester
08:38	12,651	-988	1 HE		Bristol
08:39	11,612	-934	6 HE		Bristol
08:40	10,612	-902	5 HE		Bristol
08:41	9,699	-805	8 HE		Bristol
08:42	8,903	-681	8 HE	1 hit	Bristol
08:43	8,254	-526	8 AP		Bristol
08:44	7,792	-340	9 AP		Bristol
08:45	7,544	-130	8 AP		Bristol
08:46	7,549	118	7 AP		Bristol
08:47	7,977	525	8 AP		Bristol
08:48	8,665	766	1 AP		Bristol
08:49	9,552	950	1 AP		Bristol
08:50	7,228	1,379	2 HE		Gloucester
08:51	10,089	1,205	1 HE		Falmouth
08:54	9,108	425	1 HE		Gloucester
08:56	11,619	-179	1 HE		Liverpool
09:00	6,944	502	1 HE		Shannon
09:03	8,675	618	1 HE		Shannon
10.5cm/40 Primary Total			80 shells	1 hit	1.3%

Hochseeflotte, Stuttgart

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:53	13,183	-801	1 HE		Falmouth
08:54	12,360	-725	1 HE		Falmouth
08:55	11,573	-772	1 HE		Falmouth
08:57	11,353	576	1 HE		Falmouth
08:59	11,835	-986	1 HE		Bristol
09:02	11,051	175	1 HE		Bristol
09:03	11,653	122	1 HE		Liverpool
09:04	11,771	118	1 HE		Liverpool
09:06	10,560	109	1 HE		Gloucester
09:08	11,040	353	1 HE		Gloucester
09:09	11,481	439	1 HE		Gloucester
09:11	11,374	-101	1 HE		Gloucester
09:12	11,296	-90	1 HE		Gloucester
09:13	11,243	0	1 HE		Gloucester
09:14	11,068	-175	1 HE		Gloucester
09:15	11,083	-169	1 HE		Liverpool
09:17	10,732	-182	4 HE		Liverpool
09:19	10,219	-105	1 HE		Shannon
09:21	10,051	-169	1 HE		Liverpool
09:23	9,747	-144	1 HE		Liverpool
09:24	9,491	-147	1 HE		Bristol
09:25	9,345	-146	1 HE		Bristol
09:26	9,481	-105	7 HE		Shannon
09:27	9,376	-105	7 HE		Shannon
09:28	8,908	-145	1 AP		Bristol
09:29	8,889	-142	7 HE		Liverpool
09:30	8,747	-141	8 AP		Liverpool
09:31	8,606	-141	7 AP		Liverpool
09:32	8,742	972	1 AP		Liverpool
09:33	9,616	1,077	1 AP		Liverpool
09:34	10,677	1,048	1 AP		Liverpool
09:37	13,180	605	1 HE		Cochrane
09:38	11,942	65	1 HE		Falmouth
09:39	11,838	-94	1 HE		Falmouth
09:41	13,167	-402	1 HE		Natal
09:42	13,141	-131	1 HE		Cochrane
09:43	13,071	18	5 HE		Cochrane
09:44	13,044	-19	4 HE		Cochrane
09:45	13,221	-95	4 HE		Achilles
09:46	13,258	-141	4 HE		Achilles
09:47	13,110	-147	4 HE		Achilles
09:48	12,998	-263	1 AP		Gloucester
09:50	12,528	-245	1 AP		Gloucester
09:51	12,265	-272	1 AP		Gloucester
09:53	11,408	-428	1 AP		Gloucester
09:54	10,981	-428	1 AP		Gloucester
09:55	10,526	-454	1 AP		Gloucester
09:57	9,619	-452	2 AP		Gloucester
09:58	9,201	-436	5 AP		Gloucester
09:59	9,012	-445	1 HE		Bristol
10:00	8,539	-472	2 HE		Bristol
10:01	8,066	-472	6 HE		Bristol
10:02	7,628	-438	10 HE		Bristol
10:03	7,386	-160	1 HE		Bristol
10:04	7,072	-360	2 HE		Liverpool
10:05	6,408	-263	1 HE		Gloucester
10:06	6,281	-20	2 HE		Gloucester
10:07	7,757	944	1 HE		Liverpool
10:08	8,341	935	1 HE		Bristol
10:10	10,891	1,122	1 HE		Liverpool
10:11	11,578	1,144	1 HE		Bristol
10:12	13,125	1,017	1 HE		Cochrane
10.5cm/40 Primary Total			134 shells	0 hits	

Hochseeflotte, Flotilla I

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:55	8,850	-1,234	6 SAP		Liverpool
08:56	7,654	-1,150	7 SAP		Liverpool
08:57	7,972	-399	3 SAP		Gloucester
08:58	8,470	278	2 SAP		Gloucester
08:59	8,644	815	3 SAP		Liverpool
09:00	8,878	540	3 SAP		Gloucester
09:01	9,102	281	1 SAP		Gloucester
8.8cm/35 Primary Total			25 shells	0 hits	

Hochseeflotte, Flotilla II

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
08:55	9,337	-1,234	3 SAP		Liverpool
08:56	8,074	-1,216	4 SAP		Liverpool
08:57	8,367	-394	1 SAP		Gloucester
08:58	8,973	405	4 SAP		Bristol
08:59	9,313	336	2 SAP		Gloucester
09:00	9,561	756	2 SAP		Bristol
09:01	9,316	278	3 SAP		Gloucester
8.8cm/35 Primary Total			19 shells	0 hits	