

**I Aufklarungsguppe Gunnery Logs
North Sea Operation April 14, 1917**

Gunnery log for Lutzow

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
12:53	18,620	-1,159	4 AP		Lion
12:54	17,452	-1,159	6 AP		Lion
12:55	16,303	-1,139	8 AP		Lion
12:56	15,175	-1,115	7 AP		Lion
12:57	14,769	-404	7 AP		Lion
12:58	14,368	-343	9 AP		Lion
12:59	14,004	-361	8 AP		Lion
13:00	13,629	-373	9 AP		Lion
13:01	13,235	-391	9 AP		Lion
13:02	13,502	287	1 AP		Lion
13:03	12,911	-492	13 AP rapid	2 hits	Lion
13:04	12,479	-366	14 AP rapid		Lion
13:05	12,187	-218	13 AP rapid	1 hit	Lion
13:06	12,055	-51	13 AP rapid	1 hit	Lion
13:07	12,659	635	2 AP rapid		Lion
13:08	12,911	120	10 AP		Lion
13:09	13,041	132	9 AP		Lion
13:10	13,184	144	9 AP	1 hit	Lion
13:11	13,339	156	13 AP rapid		Lion
13:12	13,124	-426	4 AP		Lion
13:13	12,985	-285	5 AP		Lion
13:14	12,647	-299	5 AP	1 hit	Lion
13:15	12,232	-310	7 AP rapid	1 hit	Lion
13:16	10,628	-1,338	1 AP rapid		Lion
13:17	10,627	-439	1 AP		Lion
13:18	10,843	200	2 AP		Lion
13:19	11,055	192	8 AP		Lion
13:20	11,260	205	7 AP		Lion
13:21	11,477	218	8 AP	2 hits	Lion
13:22	11,690	214	9 AP rapid		Lion
13:23	11,919	192	8 AP		Lion
13:24	12,126	210	6 AP		Lion
13:25	12,363	239	7 AP		Lion
13:26	12,629	267	6 AP		Lion
13:27	12,440	-189	7 AP		Lion
13:28	12,242	-216	7 AP		Lion
13:29	12,064	-177	10 AP rapid		Lion
13:30	11,897	-167	10 AP rapid	1 hit	Lion
13:31	11,741	-155	9 AP rapid		Lion
13:32	11,690	-51	6 AP		Lion
13:33	11,699	-4	8 AP		Lion
13:34	11,663	-36	7 AP		Lion
13:35	11,631	-32	7 AP		Lion
13:36	11,604	-27	8 AP		Lion
13:37	11,479	-125	7 AP		Lion
13:38	11,063	-414	8 AP		Lion
13:39	10,654	-407	8 AP		Lion
13:40	10,087	-368	9 AP		Lion
13:41	9,469	-360	9 AP		Lion
13:42	9,124	-365	10 AP		Lion
13:43	8,763	-357	10 AP	1 hit	Lion
13:44	8,411	-348	10 AP		Lion
13:45	8,056	-349	10 AP		Lion
13:46	7,713	-337	10 AP	1 hit	Lion
13:47	8,370	659	10 AP	1 hit	Lion
13:48	9,030	615	10 AP rapid		Lion
13:49	9,633	603	10 HE rapid	2 hits	Lion
13:50	10,227	595	9 HE rapid	1 hit	Lion
13:51	10,832	605	10 HE rapid		Lion
13:52	11,368	537	10 HE rapid	1 hit	Lion

**I Aufklarungsgruppe Gunnery Logs
North Sea Operation April 14, 1917**

13:53	11,911	544	9 HE rapid	1 hit	Lion
13:54	12,431	521	10 HE rapid	1 hit	Lion
13:55	12,949	519	9 HE rapid		Lion
13:56	13,462	513	5 HE		Lion
13:57	13,510	47	1 HE		Lion
13:58	13,283	-191	6 HE		Lion
13:59	13,135	-149	5 HE		Lion
14:00	13,065	-69	5 HE		Lion
14:01	12,368	-648	1 HE		Lion
14:02	11,701	-591	6 HE		Lion
14:03	11,018	-630	6 HE		Lion
14:04	10,302	-661	7 HE		Lion
14:05	9,605	-667	8 HE		Lion
14:06	8,942	-658	8 HE		Lion
14:07	8,697	-241	7 HE	1 hit	Lion
14:08	8,523	-404	3 HE rapid		Lion
14:09	8,353	-337	3 HE	1 hit	Lion
14:10	7,857	-273	4 HE		Lion
14:11	7,618	-257	3 HE		Lion
		Total	583 shells	21 hits	

I Aufklarungsguppe Gunnery Logs North Sea Operation April 14, 1917

Gunnery log for Derfflinger

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
12:53	18,866	-1,171	1 AP			Lion
12:55	16,522	-1,155	8 AP			Lion
12:56	15,377	-1,133	7 AP			Lion
12:57	14,829	-546	7 AP			Lion
12:58	14,624	-407	7 AP			Princess Royal
12:59	14,259	-341	8 AP			Princess Royal
13:00	13,898	-359	7 AP			Princess Royal
13:01	13,542	-360	8 AP			Princess Royal
13:02	13,094	-389	2 AP			Princess Royal
13:03	13,021	301	3 AP			Lion
13:04	12,736	-459	6 AP			Princess Royal
13:05	12,351	-318	8 AP			Princess Royal
13:06	12,099	-176	9 AP			Princess Royal
13:07	11,793	-220	14 AP	rapid	1 hit	Princess Royal
13:08	12,721	730	1 AP	rapid		Princess Royal
13:09	12,902	115	11 AP			Princess Royal
13:10	13,029	128	8 AP			Princess Royal
13:11	13,159	132	8 AP		1 hit	Princess Royal
13:12	13,301	143	13 AP	rapid	1 hit	Princess Royal
13:13	13,194	-392	5 AP	rapid		Princess Royal
13:14	12,830	-296	4 AP			Princess Royal
13:15	12,524	-298	4 AP			Princess Royal
13:16	11,789	-1,298	1 AP			Princess Royal
13:18	11,165	-436	12 AP			Princess Royal
13:19	11,144	-9	11 AP			Princess Royal
13:20	11,247	106	9 AP			Princess Royal
13:21	11,384	138	11 AP			Princess Royal
13:22	11,693	309	10 AP			Princess Royal
13:23	11,651	28	9 AP			Princess Royal
13:24	12,323	201	1 AP			Lion
13:25	12,552	231	9 AP			Lion
13:26	12,810	260	8 AP		1 hit	Lion
13:27	12,753	-57	13 AP	rapid		Lion
13:28	12,522	-215	9 AP			Lion
13:29	12,340	-175	20 AP	rapid		Lion
13:30	12,176	-163	20 AP	rapid		Lion
13:31	12,025	-150	13 AP			Lion
13:32	11,479	-545	10 AP			Lion
13:33	11,642	6	9 AP			Lion
13:34	11,606	-36	11 AP			Lion
13:35	11,573	-33	11 AP			Lion
13:36	11,543	-30	10 AP		2 hits	Lion
13:37	11,415	-128	14 AP	rapid		Lion
13:38	10,999	-423	11 AP			Lion
13:39	10,583	-415	11 AP			Lion
13:40	10,351	-370	12 AP			Princess Royal
13:41	9,744	-363	9 AP		1 hit	Princess Royal
13:42	9,432	-333	10 AP	rapid		Princess Royal
13:43	9,056	-362	10 AP			Princess Royal
13:44	8,698	-353	10 AP		1 hit	Princess Royal
13:45	8,346	-356	10 AP		2 hits	Princess Royal
13:46	7,995	-345	11 AP			Princess Royal
13:47	7,629	-361	10 AP			Princess Royal
13:48	8,559	659	7 AP			Princess Royal
13:49	9,160	593	8 AP		1 hit	Princess Royal
13:50	9,758	585	10 HE	rapid	1 hit	Princess Royal
13:51	10,362	604	10 HE	rapid		Princess Royal
13:52	11,275	914	8 HE			Princess Royal
13:53	11,702	430	8 HE		1 hit	Princess Royal
13:54	12,158	431	10 HE	rapid		Princess Royal

**I Aufklarungsguppe Gunnery Logs
North Sea Operation April 14, 1917**

13:55	12,620	454	7 HE		Princess Royal
13:56	13,088	469	7 HE		Princess Royal
13:57	13,642	553	4 AP		Princess Royal
13:58	13,303	-168	3 AP		Princess Royal
13:59	13,154	-107	4 AP		Princess Royal
14:00	13,125	-69	4 AP		Princess Royal
14:01	12,881	-650	1 AP		Princess Royal
14:02	12,222	-583	4 AP	1 hit	Princess Royal
14:03	11,541	-634	6 AP rapid		Princess Royal
14:04	10,831	-665	5 AP		Princess Royal
14:05	10,121	-672	5 AP		Princess Royal
14:06	9,453	-664	5 AP		Princess Royal
14:07	8,794	-653	5 AP		Princess Royal
14:08	8,840	-439	5 AP		Princess Royal
14:09	8,632	-369	6 AP		Princess Royal
14:10	8,080	-293	6 AP		Princess Royal
14:11	7,828	-276	7 AP	1 hit	Princess Royal
		Total	619 shells	15 hits	

**I Aufklarungsguppe Gunnery Logs
North Sea Operation April 14, 1917**

Gunnery log for Seydlitz

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
12:53	19,659	-1,163	1 AP		Princess Royal
12:54	18,484	-1,169	4 AP		Princess Royal
12:55	17,321	-1,156	6 AP		Princess Royal
12:56	16,173	-1,140	6 AP		Princess Royal
12:57	15,209	-950	8 AP		Princess Royal
12:58	14,754	-562	7 AP		Princess Royal
12:59	14,515	-343	9 AP		Queen Mary
13:00	14,152	-361	9 AP		Queen Mary
13:01	13,780	-370	9 AP		Queen Mary
13:02	13,216	237	3 AP		Queen Mary
13:03	13,188	-169	8 AP		Queen Mary
13:04	13,144	-8	7 AP		Queen Mary
13:05	12,569	-513	17 AP rapid	1 hit	Queen Mary
13:06	12,264	-259	20 AP rapid	1 hit	Queen Mary
13:07	12,012	-187	20 AP rapid		Queen Mary
13:08	12,571	605	1 AP		Queen Mary
13:09	12,763	269	1 AP		Queen Mary
13:10	12,949	186	10 AP		Queen Mary
13:11	13,135	186	10 AP		Queen Mary
13:12	13,136	-62	8 AP		Queen Mary
13:13	13,071	-65	8 AP		Queen Mary
13:14	13,196	-319	3 AP		Queen Mary
13:15	12,776	-334	3 AP		Queen Mary
13:16	11,669	-1,035	1 AP		Queen Mary
13:17	10,807	-1,283	1 AP		Queen Mary
13:18	10,464	-85	10 AP	1 hit	Queen Mary
13:19	10,676	200	20 AP rapid		Queen Mary
13:20	10,878	202	11 AP	1 hit	Queen Mary
13:21	11,093	215	16 AP rapid		Queen Mary
13:22	11,247	154	10 AP		Queen Mary
13:23	11,290	43	10 AP		Queen Mary
13:24	11,878	65	9 AP		Princess Royal
13:25	11,996	119	10 AP		Princess Royal
13:26	12,161	166	9 AP		Princess Royal
13:27	12,184	23	10 AP	1 hit	Princess Royal
13:28	12,102	-139	12 AP rapid	1 hit	Princess Royal
13:29	11,975	-112	11 AP rapid	1 hit	Princess Royal
13:30	11,861	-113	12 AP rapid		Princess Royal
13:31	11,746	-114	6 AP	1 hit	Princess Royal
13:32	11,398	-348	11 AP rapid		Princess Royal
13:33	11,364	149	9 AP		Princess Royal
13:34	11,632	-39	8 AP		Princess Royal
13:35	11,583	-49	9 AP		Princess Royal
13:36	11,550	-33	9 AP	2 hits	Princess Royal
13:37	11,536	-33	16 AP rapid	2 hits	Princess Royal
13:38	11,288	-425	16 AP rapid		Princess Royal
13:39	10,864	-395	11 AP		Princess Royal
13:40	10,291	-378	11 AP	1 hit	Princess Royal
13:41	9,682	-374	15 AP rapid		Princess Royal
13:42	9,356	-346	15 AP rapid	2 hits	Princess Royal
13:43	8,992	-376	16 AP rapid		Princess Royal
13:44	8,620	-369	15 AP rapid		Princess Royal
13:45	8,260	-373	16 AP rapid		Princess Royal
13:46	7,892	-363	16 AP rapid	2 hits	Princess Royal
13:47	7,508	-379	15 AP rapid	2 hits	Princess Royal
13:48	8,228	666	12 AP rapid		Princess Royal
13:49	8,832	593	6 AP		Princess Royal
13:50	9,444	586	7 AP		Princess Royal
13:51	10,050	606	8 AP		Princess Royal
13:52	10,959	910	7 AP		Princess Royal

**I Aufklarunggruppe Gunnery Logs
North Sea Operation April 14, 1917**

13:53	11,396	433	8 AP	Princess Royal
13:54	11,878	431	7 AP	Princess Royal
13:55	12,347	454	7 AP	Princess Royal
13:56	12,817	470	7 AP	Princess Royal
13:57	13,372	555	7 AP	Princess Royal
13:58	13,462	-167	7 AP	Princess Royal
13:59	13,285	-101	16 AP rapid 1 hit	Princess Royal
14:00	13,281	-67	15 AP rapid 2 hits	Princess Royal
14:01	13,040	-656	16 AP rapid	Princess Royal
14:02	12,374	-593	6 AP	Princess Royal
14:03	11,700	-646	8 AP	Princess Royal
14:04	10,989	-677	2 AP	Princess Royal
14:05	10,260	-685	2 AP	Princess Royal
14:06	9,579	-678	2 AP	Princess Royal
14:07	8,904	-670	3 AP	Princess Royal
14:08	8,681	-472	3 AP	Princess Royal
14:09	8,436	-399	3 AP	Princess Royal
14:18	7,854	471	2 AP	Princess Royal
14:19	8,075	501	3 AP	Princess Royal
14:20	8,598	525	2 AP	Princess Royal
14:21	9,144	547	2 AP	Princess Royal
14:22	9,022	-122	1 AP	Princess Royal
14:23	8,875	-69	2 AP	Princess Royal
14:25	7,573	-188	2 AP	Princess Royal
14:26	7,377	-218	2 AP	Princess Royal
14:27	7,151	-222	3 AP	Princess Royal
14:28	6,950	-198	3 AP	Princess Royal
14:29	6,775	-172	3 AP	Princess Royal
14:30	6,630	-144	4 AP rapid	Princess Royal
Total 732 shells 22 hits				

I Aufklarungsguppe Gunnery Logs North Sea Operation April 14, 1917

Gunnery log for Moltke

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
12:53	19,524	-1,158	1 AP		Lion
12:54	18,351	-1,169	4 AP		Lion
12:55	17,186	-1,159	6 AP		Lion
12:56	16,016	-1,163	8 AP		Lion
12:57	15,295	-721	10 AP		Lion
12:58	14,655	-583	12 AP	1 hit	Lion
12:59	14,883	-321	9 AP	1 hit	New Zealand
13:00	13,753	-371	1 AP		Princess Royal
13:01	13,704	-372	12 AP		Queen Mary
13:02	13,246	-401	12 AP	1 hit	Queen Mary
13:03	13,225	334	3 AP		Princess Royal
13:04	13,006	-448	1 AP		Queen Mary
13:06	12,867	-278	6 AP		Queen Mary
13:07	12,199	-629	1 AP		Queen Mary
13:08	12,713	572	11 AP		Queen Mary
13:09	12,920	289	1 AP		Queen Mary
13:10	13,141	222	11 AP		Queen Mary
13:11	13,373	233	12 AP		Queen Mary
13:12	13,483	51	9 AP		Queen Mary
13:13	12,271	-74	11 AP		New Zealand
13:14	12,171	-100	12 AP		New Zealand
13:15	12,010	-161	12 AP		New Zealand
13:16	11,802	-208	12 AP		New Zealand
13:17	11,359	-428	3 AP		New Zealand
13:18	11,006	-237	7 AP	2 hits	New Zealand
13:19	10,757	-244	5 AP rapid		New Zealand
13:20	10,641	265	8 AP		New Zealand
13:21	10,840	158	11 AP		New Zealand
13:22	10,939	95	13 AP	1 hit	New Zealand
13:23	11,120	182	20 AP rapid	1 hit	New Zealand
13:24	11,236	242	2 AP rapid		New Zealand
13:25	11,531	191	1 AP		New Zealand
13:26	11,825	191	11 AP		New Zealand
13:27	11,990	168	11 AP		New Zealand
13:28	12,033	44	11 AP		New Zealand
13:29	12,206	-142	8 AP	2 hits	New Zealand
13:30	12,197	-197	15 AP rapid		New Zealand
13:31	12,035	-188	15 AP rapid		New Zealand
13:32	11,908	-127	11 AP rapid	1 hit	New Zealand
13:33	11,722	-520	10 AP rapid		New Zealand
13:34	11,779	-29	7 AP		New Zealand
13:35	11,748	-46	7 AP	1 hit	New Zealand
13:36	11,695	-53	14 AP rapid		New Zealand
13:37	11,793	-130	8 AP		New Zealand
13:38	11,851	0	9 AP	1 hit	New Zealand
13:39	11,622	-412	14 AP rapid		New Zealand
13:40	10,993	-350	11 AP		New Zealand
13:41	10,415	-390	11 AP		New Zealand
13:42	10,098	-361	11 AP		New Zealand
13:43	9,788	-331	11 AP		New Zealand
13:44	9,430	-359	13 AP	1 hit	New Zealand
13:45	9,088	-363	15 AP rapid	1 hit	New Zealand
13:46	8,730	-354	16 AP rapid		New Zealand
13:47	8,328	-396	15 AP rapid	2 hits	New Zealand
13:48	7,910	-412	16 AP rapid	1 hit	New Zealand
13:49	8,196	623	12 AP rapid	1 hit	New Zealand
13:50	8,809	567	12 AP rapid		New Zealand
13:51	9,376	575	9 AP		New Zealand
13:52	10,162	528	9 AP	1 hit	New Zealand
13:53	10,706	533	12 AP rapid		New Zealand

**I Aufklarungsguppe Gunnery Logs
North Sea Operation April 14, 1917**

13:54	11,283	500	8 AP		New Zealand
13:55	11,815	496	7 AP		New Zealand
13:56	12,335	503	6 AP		New Zealand
13:57	12,673	646	5 AP		New Zealand
13:58	13,363	372	6 AP		New Zealand
13:59	13,488	-150	5 AP		New Zealand
14:00	13,215	-46	13 AP rapid	1 hit	New Zealand
14:01	13,151	-64	10 AP rapid	4 hits	New Zealand
14:02	13,247	97	10 AP rapid		New Zealand
14:03	12,684	-668	1 AP		New Zealand
14:04	12,044	-594	6 AP		New Zealand
14:05	11,391	-599	6 AP		New Zealand
14:06	10,692	-617	4 AP		New Zealand
14:07	10,000	-635	6 AP		New Zealand
14:08	9,420	-577	11 AP rapid	1 hit	New Zealand
14:09	9,491	-455	3 AP rapid		New Zealand
14:10	9,052	-389	3 AP		New Zealand
14:20	7,684	444	3 AP		New Zealand
14:21	8,204	454	2 AP		New Zealand
14:22	8,665	461	3 AP		New Zealand
14:24	8,209	-162	2 AP		New Zealand
14:25	8,046	-158	2 AP		New Zealand
14:26	7,869	-160	3 AP		New Zealand
14:27	7,649	-169	2 AP		New Zealand
14:28	7,431	-170	4 AP rapid		New Zealand
14:29	7,223	-160	4 AP rapid	2 hits	New Zealand
14:30	7,043	-149	4 AP rapid	1 hit	New Zealand
14:31	6,911	-131	5 AP rapid	1 hit	New Zealand
14:32	6,927	-213	4 AP rapid		New Zealand
Total			719 shells	29 hits	