

## wsa\_e4\_20200116a\_AGONGfield\_line4R006

date	time	lon	lat	elon	elat
2020-01-17	09:33:33.120000	142.203	61.7481	0	0.952
2020-01-17	11:05:42.719981	140.97	61.9038	1.2284	1.1077
2020-01-17	14:47:54.239986	139.741	61.7358	1.2284	0.9397
2020-01-17	20:02:58.560019	138.518	61.877	2.4316	0.796
2020-01-18	02:22:33.599994	137.3	61.7042	2.4222	0.4404
2020-01-18	09:11:05.279996	136.086	61.8942	2.4316	0.3
2020-01-18	15:10:56.640011	134.877	61.9686	4.7922	0.5023
2020-01-18	20:28:27.839996	133.673	61.8594	4.7762	0.4628
2020-01-18	22:28:33.599986	130.085	62.3003	2.3731	0.3701
2020-01-18	22:28:42.240011	128.897	62.7234	1.1883	0.5826
2020-01-19	01:18:02.880011	127.712	62.8039	1.1848	0.6065
2020-01-19	09:20:00.960012	126.531	63.0676	3.5257	0.3203
2020-01-19	12:38:35.520009	125.353	63.1413	4.6846	0.9299
2020-01-19	14:26:35.519985	124.177	62.9196	3.5094	1.3047
2020-01-19	15:11:31.199993	123.005	62.7976	2.3371	1.2609
2020-01-19	18:45:56.159985	121.835	-35.8822	2.3323	98.6071
2020-01-19	19:08:41.280000	120.668	-36.4128	1.1673	99.1377
2020-01-19	21:47:57.119981	119.503	-43.16	1.1626	105.063
2020-01-19	21:48:05.760006	118.34	-44.5356	1.16	106.439
2020-01-20	01:14:00.960020	117.18	-45.4431	1.1571	12.4619
2020-01-20	01:37:20.640016	116.023	-46.3389	1.1538	13.1225
2020-01-20	03:38:52.799980	114.869	-46.9011	1.1538	12.8953
2020-01-20	07:33:27.360010	113.719	-47.5273	1.1503	12.6158
2020-01-20	12:22:36.479989	112.573	-48.6559	1.1424	12.6056
2020-01-20	12:59:11.040003	111.43	-50.069	0	10.0178
2020-01-20	16:57:56.160009	110.292	-51.5136	2.2617	5.3062
2020-01-20	16:58:04.799995	109.159	-52.4283	1.1283	5.5954
2020-01-20	21:01:35.039999	108.03	-53.6855	2.2408	3.8985
2020-01-20	23:21:33.120016	105.79	-57.8479	1.112	10.2238
2020-01-20	23:21:41.760001	104.678	-59.2214	1.1059	11.5973
2020-01-20	23:21:50.399987	103.572	-59.2429	1.1059	11.6188
2020-01-21	01:14:52.800012	102.472	-58.5783	2.1795	11.1246
2020-01-21	08:59:42.719989	101.379	-57.6393	2.1658	6.7985
2020-01-21	08:59:51.360015	100.293	-56.3338	2.1515	5.5903
2020-01-21	15:00:43.200007	99.2131	-52.4601	3.1943	6.3141
2020-01-21	17:00:31.679986	98.141	-50.744	3.1725	6.7508
2020-01-21	17:00:40.320012	97.0763	-49.8956	2.1078	6.0157
2020-01-21	17:00:48.959997	96.0188	-49.489	2.1222	5.8196
2020-01-21	17:00:57.599983	94.9685	-49.1238	3.1725	5.4544
2020-01-21	17:01:06.240008	93.9253	-49.0265	3.0878	5.3571
2020-01-21	17:01:14.879993	92.8891	-48.663	2.0794	4.9936
2020-01-21	17:01:23.520019	91.8598	-48.8117	3.1087	5.1423
2020-01-21	17:50:12.479992	90.8375	-48.536	4.131	7.2451
2020-01-21	19:31:17.759989	89.8218	-48.3902	4.1035	7.5211
2020-01-21	20:49:55.199981	88.8129	-48.5412	3.0469	8.7355
2020-01-21	23:58:33.599986	86.8162	-48.6517	3.0056	6.3911
2020-01-22	03:06:54.720020	85.8295	-48.5411	2.9834	6.56
2020-01-22	05:53:13.920006	84.8517	-48.2648	2.9591	6.8549

## wsa\_e4\_20200116a\_AGONGfield\_line4R006

2020-01-22	09:17:08.159983	83.8833	-48.296	1.9462	6.8658
2020-01-22	12:38:00.959988	82.925	-48.3459	0.9583	6.8159
2020-01-22	15:48:31.680003	81.9776	-48.7089	1.9057	6.9169
2020-01-22	18:53:25.439986	81.0416	-48.7496	1.8834	5.5756
2020-01-22	22:08:41.280000	79.2068	-49.0263	1.7832	3.5231
2020-01-23	01:02:38.400013	78.3088	-49.0902	1.809	3.4592
2020-01-23	04:16:36.479997	77.4236	-49.2133	1.7832	4.3167
2020-01-23	07:44:49.920017	76.551	-49.5593	1.7578	4.0998
2020-01-23	11:57:15.839997	75.6909	-49.736	1.7327	4.1872
2020-01-23	14:04:24.959992	74.8432	-50.1223	0.8356	3.8945
2020-01-23	17:47:02.399993	74.0076	-50.4158	0.8356	2.3661
2020-01-23	17:47:11.040019	73.184	-51.0257	1.6592	2.976
2020-01-23	17:47:19.680004	72.3723	-51.744	2.4709	3.2558
2020-01-24	03:49:58.080017	70.7841	-53.0828	0.7881	3.3021
2020-01-24	09:38:00.959988	70.0089	-53.2665	0.761	3.5525
2020-01-24	12:21:53.279982	69.2479	-53.8902	0.7456	3.8565
2020-01-24	14:43:17.760013	68.5023	-53.9959	0.7291	4.2724
2020-01-24	16:25:14.880002	67.7732	-54.0616	0.7112	4.7266
2020-01-24	19:22:48.000010	67.062	-54.0266	0.6921	6.1246
2020-01-24	23:08:00.959988	64.4195	-55.0563	0.6047	5.6881
2020-01-25	02:27:44.639989	63.8148	-55.6164	0.5812	5.2105
2020-01-25	05:31:11.999998	63.2336	-55.9946	0.5575	5.641
2020-01-25	06:07:46.560012	62.6761	-56.6485	0.5575	4.9871
2020-01-25	11:22:50.880005	62.1427	-57.2927	0.5334	4.774
2020-01-25	14:54:05.759998	61.6337	-57.5253	0.4844	4.6626
2020-01-25	17:39:15.839981	61.1493	-57.7927	0.8937	4.1819
2020-01-25	18:36:25.919988	60.6899	-58.3326	0.4343	3.7212
2020-01-25	22:57:04.320017	58.7862	-59.4471	0.3241	2.7685
2020-01-26	02:21:50.399987	58.4943	-59.6022	0.2578	2.6343
2020-01-26	05:40:24.959984	58.2365	-59.8209	0.2217	2.543
2020-01-26	09:13:14.880018	58.0148	-59.6827	0.1836	2.8147
2020-01-26	12:15:59.039980	57.8312	-59.8031	0.1436	2.6915
2020-01-26	14:54:57.599991	57.6876	-60.0469	0.1016	2.5401
2020-01-26	17:23:16.800001	57.586	-60.2201	0.0576	2.1763
2020-01-26	20:39:41.760018	57.5284	-60.0028	0.0122	2.4995
2020-01-26	23:03:15.839989	57.5503	-60.0652	0.0817	2.56
2020-01-27	01:07:58.079993	57.632	-60.2243	0.1302	2.2915
2020-01-27	03:05:54.240002	57.7622	-60.3897	0.18	2.3211
2020-01-27	05:53:39.840002	57.9422	-60.1508	0.2308	2.3715
2020-01-27	07:39:04.320001	58.173	-60.3451	0.2826	2.2363
2020-01-27	09:58:19.200010	58.4556	-60.2116	0.3356	2.5209
2020-01-27	12:10:56.640011	58.7912	-59.9662	0	2.6557
2020-01-27	13:43:32.159988	59.1809	-60.1736	0	2.6599
2020-01-27	15:37:52.320002	59.6258	-59.7982	0	2.757
2020-01-27	17:15:21.600004	60.1269	-59.9974	0.5011	2.545
2020-01-27	19:01:46.559980	60.6854	-59.7008	0.5585	2.6452
2020-01-27	23:02:23.999997	61.9787	-59.5318	0.6764	3.1152
2020-01-28	01:55:37.920003	62.7157	-59.3661	0.737	3.1043
2020-01-28	05:07:09.119995	63.5143	-59.0551	0.7986	3.5385

## wsa\_e4\_20200116a\_AGONGfield\_line4R006

2020-01-28	07:04:13.440012	64.3757	-59.074	0.8614	3.6597
2020-01-28	09:18:51.840008	65.301	-58.8813	0.9253	3.9015
2020-01-28	11:01:14.879993	66.2907	-59.0133	0.9897	3.9166
2020-01-28	13:03:30.240005	67.3422	-58.6938	1.0515	3.952
2020-01-28	15:01:43.679985	68.4511	-58.8288	1.1089	3.408
2020-01-28	17:09:44.640013	69.6134	-58.4733	1.1623	3.3557
2020-01-28	19:28:16.320015	70.8248	-58.6009	1.2114	3.2077
2020-01-28	21:29:39.839994	72.0811	-58.4375	1.2563	3.2253
2020-01-29	00:09:21.600012	73.3782	-58.5612	0	2.4888
2020-01-29	03:01:52.320010	74.7119	-58.6719	0	1.0406
2020-01-29	06:13:58.079984	76.0779	-58.7547	0	0.9731
2020-01-29	11:05:08.160000	77.472	-58.1523	1.4172	1.6657
2020-01-29	16:13:17.760013	78.8892	-57.9075	2.8772	2.6013
2020-01-29	20:00:48.959997	80.3229	-57.8904	4.3335	3.2146
2020-01-30	00:37:00.480010	81.7664	-57.3279	4.3233	3.4724
2020-01-30	02:38:15.360003	83.2131	-57.8871	4.2931	3.674
2020-01-30	04:51:53.279982	84.6564	-57.9167	4.243	3.5434
2020-01-30	05:37:06.240000	86.0897	-58.5316	2.8097	3.4208
2020-01-30	07:41:22.560007	87.5062	-58.591	2.7565	3.5856
2020-01-30	09:02:44.160003	88.8994	-58.6484	2.6903	3.5253
2020-01-30	09:05:19.680020	90.2627	-59.1848	1.327	3.5131
2020-01-30	10:53:02.399985	91.5897	-59.2017	0	3.4962
2020-01-30	12:35:08.160000	92.8768	-59.7122	0	2.8744
2020-01-30	15:03:18.719984	94.1214	-59.7276	0	2.424
2020-01-30	17:31:29.280009	95.3205	-60.2353	0	2.4622
2020-01-30	20:22:50.880005	96.4716	-60.1215	0	2.3484
2020-01-30	21:30:14.400016	96.4716	-60.1215	0	1.894
2020-01-31	00:15:59.039980	97.5719	-60.1414	0	1.9139
2020-01-31	02:32:47.039998	98.6186	-60.5024	0	1.8563
2020-01-31	05:17:22.559999	99.609	-60.3003	0	1.7282
2020-01-31	07:57:47.519984	100.54	-60.2185	0	1.6474
2020-01-31	10:30:51.839992	101.41	-60.1459	0	2.2261
2020-01-31	12:49:49.439991	102.217	-60.4564	0	2.6878
2020-01-31	15:16:59.519998	102.961	-60.4021	0	2.619
2020-01-31	17:50:12.479992	103.644	-60.3208	0	2.5377
2020-01-31	20:18:40.319988	104.266	-60.237	0.6224	1.9973
2020-01-31	22:01:55.200005	104.266	-60.237	0.6224	1.9973
2020-02-01	00:42:46.079986	104.829	-60.1147	0.5627	1.9485
2020-02-01	03:25:03.359981	105.333	-59.9518	0	1.7856
2020-02-01	08:33:38.879990	105.779	-59.2632	0.3886	1.4214
2020-02-01	12:04:19.200002	106.167	-59.0511	0.3886	1.1371
2020-02-01	18:12:23.039985	106.5	-58.3554	0.5001	1.6825
2020-02-02	00:15:50.399995	106.776	-58.1223	0.3945	1.8285
2020-02-02	02:50:55.679999	107	-57.9522	0.3656	1.8559
2020-02-02	05:25:09.120011	107.171	-57.7686	0.1943	1.8981
2020-02-02	07:58:04.799995	107.292	-57.6052	0.0731	1.9228
2020-02-02	10:32:44.160003	107.365	-57.4584	0.0266	2.1546
2020-02-02	13:16:27.840012	107.392	-57.1875	0.0787	2.098
2020-02-02	15:55:52.320018	107.374	-57.0714	0.3029	2.3781

## wsa\_e4\_20200116a\_AGONGfield\_line4R006

2020-02-02	18:41:54.239994	107.313	-56.9687	0.4204	2.3415
2020-02-02	21:00:17.280011	107.212	-57.3161	0.3189	1.9941
2020-02-02	22:18:28.800007	107.313	-56.9687	0.4204	2.4063
2020-02-03	00:34:42.240003	107.212	-57.3161	0.5335	2.0589
2020-02-03	03:50:32.639998	107.071	-57.2447	0.6427	2.1255
2020-02-03	05:52:56.639995	106.893	-57.6309	0.7486	1.8833
2020-02-03	09:27:12.960002	106.678	-57.5974	0.8512	1.6244
2020-02-03	10:50:52.800004	106.428	-58.0333	0.6013	1.8348
2020-02-03	14:20:58.559994	106.144	-58.0136	0.6663	2.1483
2020-02-03	15:11:39.840018	105.827	-58.3826	0.729	2.357
2020-02-03	15:11:48.480003	105.478	-58.9738	0.3799	1.8606
2020-02-03	15:11:57.119989	105.098	-59.4295	0.3799	1.4049
2020-02-03	15:12:05.760014	104.688	-59.7749	0.4382	1.6223
2020-02-03	16:29:08.160008	104.25	-59.6985	0.8478	2.2418
2020-02-03	18:11:39.840018	103.785	-60.0556	0.9038	2.5989
2020-02-03	20:56:24.000005	103.293	-59.9653	0.9576	2.9392
2020-02-03	22:02:12.480016	103.293	-59.9653	0.9576	2.9392
2020-02-04	01:12:25.919980	102.775	-59.8566	0.5412	3.0669
2020-02-04	04:05:31.200001	102.234	-59.757	0.5412	3.0532
2020-02-04	07:02:03.839991	101.67	-59.6635	0.5642	3.0168
2020-02-04	10:12:43.199991	101.084	-59.5568	0.6067	2.9101
2020-02-04	12:53:25.439986	100.477	-59.4633	0.6264	2.9105
2020-02-04	16:20:03.840007	99.8508	-59.3577	0.6448	2.8925
2020-02-04	19:19:12.000014	99.206	-59.243	0.6448	3.1181