Guide to the BC Forest Service Protection Program
Historic Fire Weather Data

Not all fields discussed in this guide may be reflected in your request.

Site identity:

Station name: usually based on the nearest geographic feature.

Station code: a numeric database assigned identifier, unique to each site.

Site location:

Coordinates: the latitude and longitude values are provided in degrees and decimal degrees. Most hourly station locations have been fixed by handheld GPS to 4 decimal places. The negative latitude value is for database purposes only and can be considered equal to the positive value.

Elevation: given in meters and determined from 1:50.000 maps based on the measured coordinates.
Note*; some archived stations still carry a VAX legacy in the elevation, that requires multiplication by 100. If the elevation appears impossibly low for the location this is likely the case. These will be corrected as time permits.*

Daily vs. Hourly data:

Prior to 1987, weather data was only recorded once per day as input into the Canadian Forest Fire Danger Rating System for Fire Weather Index (FWI) calculations. The readings are those for 12:00 PST with the exception of precipitation, which was a 24 hour total as described below.

Subsequent data will show in the hourly table as well as the daily table. The daily table includes the full suite of FWI calculations and is derived from the hourly data.

Quality control:

Automated quality control is based on value and range limits. For each input and indices field there is a “valid” bit field which will be set to one (1) if the data meets

established criteria. A zero (0) in the “valid” bit does not necessarily mean that the data is not valid, rather, it means either of the following:

- The data is within the realm of possibility but questionable because it is outside of the “reasonably expected” range: (e.g.: temperature of –55; wind speed of 125)
- The data coincides with known limitations or default values of the sensors: (e.g. relative humidity of zero (0))
- The data is definitely not valid: (e.g.: a negative value for precipitation or relative humidity; a temperature of 100 degrees)

Data outside acceptable parameters is flagged to the data custodian for review and possible correction or deletion. During the fire season the daily files may include estimates. These are required to for the FWI calculations and are entered by or in consultation with, qualified fire weather forecasters.

Two lookup tables are used in the quality control process:

1. Lookup_ValidDataRange_Observation:
    - For a given observation, values between the applicable *valid_min* and *valid_max* (inclusive) are flagged as “valid”.
    - For a given observation, values that exceed the applicable *absolute_min* or *absolute_max* values are discarded (set to null).
    - For a given observation, values that do not exceed the applicable *absolute_min* or *absolute_max* values but do exceed the *valid_min* or *valid_max* values are flagged as “not valid”.
2. Lookup_ValidDataRange_Index:
    - For a given index, values between the applicable *valid_min* and *valid_max* (inclusive) are flagged as “valid”.
    - For a given index, values that exceed the applicable *valid_min* or *valid_max* values are flagged as “not valid”.

Data description:

Temperature: in degrees Celsius measured at the top of the hour. Also recently recorded as a daily maximum and minimum based on 1 minute samples.

The criteria for setting the temp_valid bit are:

- Temperature (°C) between –50 and 50

NOTE: Continuous readings of minus 20 in temperature field in the winter are often the result of the temperature falling below minus 20 , which is the lower recording limit of the WR62 datalogger (original equipment). This is also the datalogger temperature default value and may occur at any time of year if the sensor fails

Relative Humidity: in percent measured at the top of the hour. Also recently recorded as a daily maximum and minimum based on 1 minute samples.

The criteria for setting the rh_valid bit are:

- Relative_Humidity (%) between 1 and 100

NOTE: If the RH value is consistently 8%, it is a sign that the sensor has failed as 8% is the WR62 datalogger (original equipment) default value.

NOTE: RH values between 100 and 105 are corrected to 100.

Wind speed: in kilometers per hour, posted as an average of the last ten minutes prior to the top of the hour and more recently also includes maximum 10 minute average for the hour and maximum 5 second reading for the hour. Sensor sampled every 5 seconds.

The criterion for setting the wspeed_valid bit is:

- Wind_Speed (km/hr) between 0 and 100

Wind direction: measured to the degree, recorded as the average direction over the last ten minutes prior to the top of the hour, sampled every minute.

The criteria for setting the wdir_valid bit are:

- Wind_Direction (degrees) greater than or equal to 0 and less than 360 describing the direction the wind is blowing from.

NOTE: Values between 360 and 365 are corrected to 0.

Precipitation: measured continuously in 0.2 millimeter increments and recorded in millimeters accumulated for the hour at the top of each hour.

NOTE: For older data, precipitation was measured in 0.25mm increments and recorded in an alternating 0.2 & 0.3mm sequence.

Daily precipitation: precipitation totaled from 1200PST the previous day to 1200PST the day of record, for Fire Weather Index calculations.

The criteria for setting the precip_valid bit are:

- Hourly Precipitation (mm) between 0 and 30
- Daily Precipitation (mm) between 0 and 150

FFMC (Fine Fuel Moisture Code):

The criteria for setting the FFMC_valid bit are:

- FFMC between 0 and 101

ISI (Initial Spread Index):

The criterion for setting the ISI_valid bit is:

- ISI between 0 and 200

DMC (Duff Moisture Code):

The criterion for setting the DMC_valid bit is:

- DMC between 0 and 350

DC (Drought Code):

The criterion for setting the DC_valid bit is:

- DC between 0 and 1200

BUI (Build Up Index):

The criterion for setting the BUI_valid bit is:

- BUI between 0 and 400

FWI (Build Up Index):

The criterion for setting the FWI_valid bit is:

- FWI between 0 and 300

If questionable values are encountered or you have any questions about the data please contact the undersigned.

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Government of British Columbia

Ministry of Forests, Lands &
Natural Resource Operations

Protection Program

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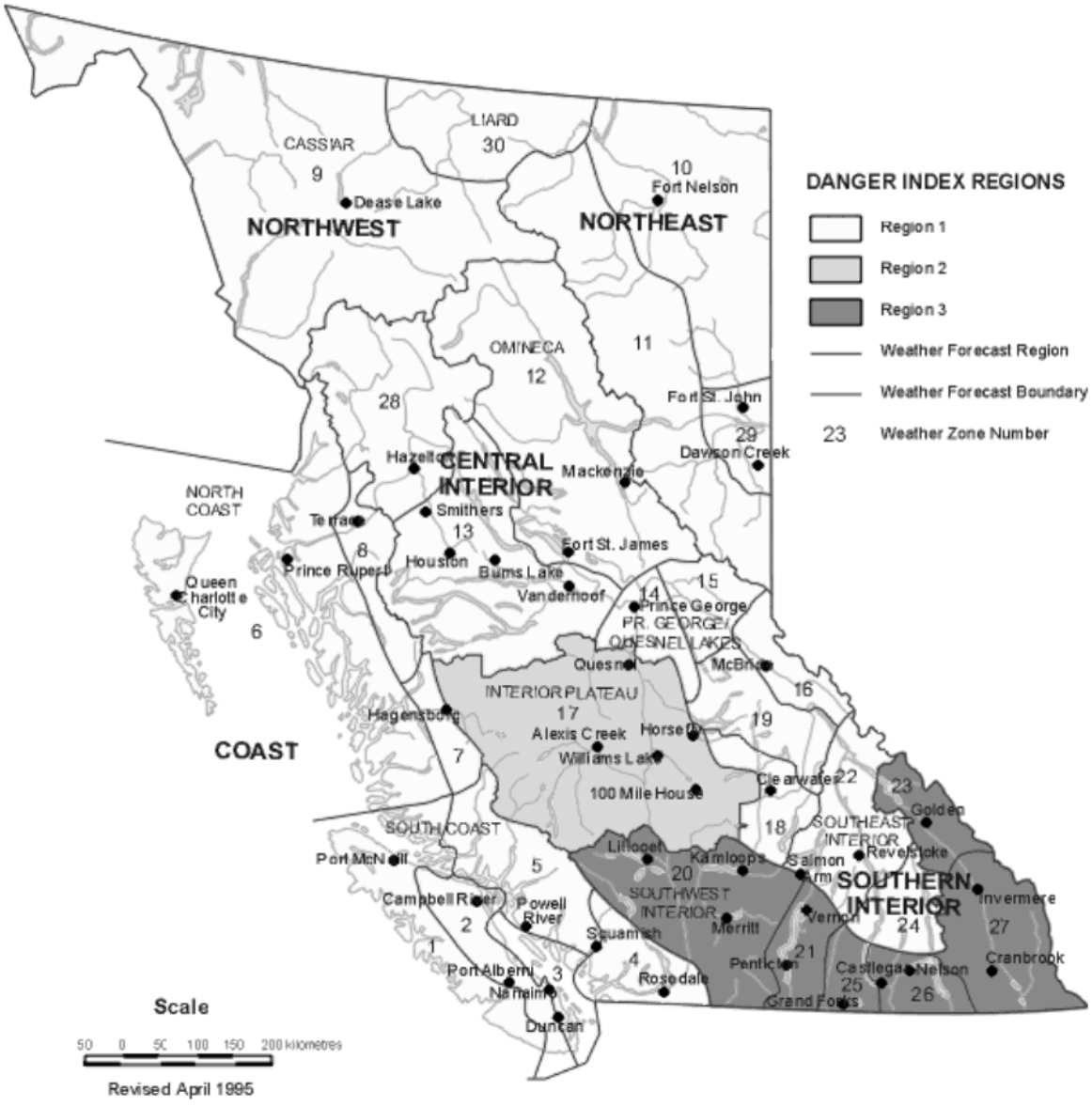
Fire Weather Zones



BC Forest Service Wildfire Management Branch Fire Weather Station Data

station_name	latitude	longitude	elev(m)
BRISCO [1]	50.8193	-116.2449	930

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Ministry of Forests, Lands and
Natural Resource Operations
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1. Please note that the Brisco station is not instrumented to measure snow.

Any precipitation showing in the winter months is likely from snow melting and running through the gauge during warmer periods.
This is not a measure of the actual snowfall received.
This site is also not mainatined during the winter.

weather_date	temperature	relative_humidity	wind_speed	wind_direction	precipitation
2014120101	-19.1	75	0.0	204	0.0
2014120102	-19.6	76	1.6	323	0.0
2014120103	-19.2	77	1.6	274	0.0
2014120104	-18.8	77	2.5	303	0.0
2014120105	-18.8	77	1.9	172	0.0
2014120106	-18.7	78	2.7	200	0.0
2014120107	-18.7	77	1.6	240	0.0
2014120108	-18.2	77	3.9	205	0.0
2014120109	-17.4	75	3.6	180	0.0
2014120110	-16.3	75	3.7	212	0.0
2014120111	-15.6	75	3.2	196	0.0
2014120112	-14.3	73	5.4	196	0.0
2014120113	-13.3	69	4.0	214	0.0
2014120114	-13.3	71	3.1	223	0.0
2014120115	-13.8	75	1.7	233	0.0
2014120116	-15.0	79	2.1	1	0.0
2014120117	-17.0	78	3.4	87	0.0
2014120118	-18.0	79	3.6	90	0.0
2014120119	-18.2	79	5.7	101	0.0
2014120120	-17.3	79	5.3	296	0.0
2014120121	-17.3	79	4.4	343	0.0
2014120122	-17.7	80	5.8	352	0.0
2014120123	-18.6	79	4.7	356	0.0
2014120124	-18.0	78	3.5	4	0.0
2014120201	-17.8	78	1.9	299	0.0
2014120202	-17.5	78	2.7	251	0.0
2014120203	-17.3	79	3.9	70	0.0
2014120204	-17.0	79	5.6	282	0.0
2014120205	-17.1	79	2.1	236	0.0
2014120206	-18.1	76	3.8	89	0.0
2014120207	-19.1	76	2.3	48	0.0
2014120208	-19.0	77	3.3	105	0.0
2014120209	-15.1	78	2.3	198	0.0
2014120210	-12.5	68	3.0	208	0.0
2014120211	-12.1	65	4.5	193	0.0
2014120212	-10.9	60	5.3	204	0.0
2014120213	-9.7	55	4.3	207	0.0
2014120214	-9.6	58	5.0	203	0.0
2014120215	-12.2	70	1.7	127	0.0
2014120216	-14.1	78	4.4	1	0.0
2014120217	-15.4	82	3.7	113	0.0
2014120218	-15.0	83	4.4	325	0.0
2014120219	-15.8	83	3.0	269	0.0
2014120220	-16.8	80	2.4	134	0.0
2014120221	-16.7	81	3.7	343	0.0
2014120222	-16.6	83	5.7	344	0.0

2014120223	-17.6	81	3.6	278	0.0
2014120224	-18.0	79	3.1	239	0.0
2014120301	-18.5	77	3.9	298	0.0
2014120302	-19.2	78	0.0	75	0.0
2014120303	-19.1	77	1.7	302	0.0
2014120304	-19.3	77	1.7	84	0.0
2014120305	-20.2	76	2.8	331	0.0
2014120306	-20.3	78	0.0	34	0.0
2014120307	-20.7	74	0.0	69	0.0
2014120308	-20.3	75	0.0	45	0.0
2014120309	-16.3	73	0.0	298	0.0
2014120310	-14.3	69	1.7	219	0.0
2014120311	-12.7	68	2.7	223	0.0
2014120312	-10.5	63	4.2	225	0.0
2014120313	-10.0	59	4.1	229	0.0
2014120314	-9.2	57	3.7	210	0.0
2014120315	-12.1	72	3.8	6	0.0
2014120316	-14.0	81	0.0	357	0.0
2014120317	-14.8	82	1.7	77	0.0
2014120318	-14.9	83	2.6	139	0.0
2014120319	-15.5	82	0.0	1	0.0
2014120320	-16.0	82	2.5	6	0.0
2014120321	-16.1	82	3.6	85	0.0
2014120322	-16.5	82	4.3	128	0.0
2014120323	-16.5	82	2.5	300	0.0
2014120324	-17.3	80	2.1	251	0.0
2014120401	-18.0	78	0.0	292	0.0
2014120402	-18.0	80	0.0	333	0.0
2014120403	-17.7	80	1.6	258	0.0
2014120404	-17.9	78	1.7	308	0.0
2014120405	-18.6	77	2.2	283	0.0
2014120406	-19.4	78	5.0	315	0.0
2014120407	-20.1	76	1.8	259	0.0
2014120408	-19.3	78	2.9	336	0.0
2014120409	-16.5	73	0.0	316	0.0
2014120410	-13.6	70	0.0	278	0.0
2014120411	-12.1	69	3.9	271	0.0
2014120412	-10.0	64	3.7	223	0.0
2014120413	-8.3	61	3.6	244	0.0
2014120414	-9.4	61	2.2	283	0.0
2014120415	-11.2	74	2.5	57	0.0
2014120416	-13.1	81	2.2	341	0.0
2014120417	-14.1	82	2.0	79	0.0
2014120418	-14.1	82	2.0	36	0.0
2014120419	-13.7	83	2.7	356	0.0
2014120420	-13.8	83	2.9	134	0.0
2014120421	-13.7	81	3.9	270	0.0

2014120422	-13.5	83	2.0	246	0.0
2014120423	-13.1	84	1.6	100	0.0
2014120424	-12.9	84	1.8	300	0.0
2014120501	-12.6	84	2.8	46	0.0
2014120502	-12.0	83	3.4	351	0.0
2014120503	-11.8	83	2.3	27	0.0
2014120504	-11.8	84	6.3	291	0.0
2014120505	-12.1	84	4.9	271	0.0
2014120506	-11.8	84	2.4	164	0.0
2014120507	-11.6	84	0.0	266	0.0
2014120508	-11.2	84	2.0	288	0.0
2014120509	-10.2	82	2.3	217	0.0
2014120510	-9.0	77	2.4	138	0.0
2014120511	-8.2	77	4.5	187	0.0
2014120512	-8.1	79	5.6	191	0.0
2014120513	-6.5	74	4.2	252	0.0
2014120514	-6.6	76	3.9	250	0.0
2014120515	-6.3	77	2.9	339	0.0
2014120516	-6.6	82	4.2	108	0.0
2014120517	-6.4	81	2.7	100	0.0
2014120518	-6.7	84	4.4	78	0.0
2014120519	-6.4	81	4.1	167	0.0
2014120520	-6.6	86	4.0	213	0.0
2014120521	-6.8	87	1.7	256	0.0
2014120522	-6.6	86	5.0	88	0.0
2014120523	-6.7	89	3.7	181	0.0
2014120524	-6.6	88	2.7	138	0.0
2014120601	-6.5	89	1.6	177	0.0
2014120602	-6.4	91	4.6	259	0.0
2014120603	-6.4	91	1.7	269	0.0
2014120604	-6.3	92	3.4	187	0.0
2014120605	-6.4	92	2.8	245	0.0
2014120606	-6.5	93	3.4	27	0.0
2014120607	-6.2	91	6.4	141	0.0
2014120608	-6.1	91	6.8	180	0.0
2014120609	-5.8	91	5.8	189	0.0
2014120610	-5.2	89	4.7	77	0.0
2014120611	-5.1	89	3.1	153	0.0
2014120612	-5.0	89	0.0	345	0.0
2014120613	-4.5	88	1.9	105	0.0
2014120614	-4.8	90	4.5	121	0.0
2014120615	-4.1	89	3.5	229	0.0
2014120616	-4.6	92	3.4	280	0.0
2014120617	-4.4	92	4.7	156	0.0
2014120618	-4.4	93	1.9	17	0.0
2014120619	-3.8	91	6.7	293	0.0
2014120620	-4.1	94	2.4	279	0.0

2014120621	-4.3	94	4.7	265	0.0
2014120622	-4.4	94	7.6	299	0.0
2014120623	-4.4	93	2.5	161	0.0
2014120624	-4.0	92	2.2	203	0.0
2014120701	-4.1	91	4.9	301	0.0
2014120702	-3.9	91	1.6	32	0.0
2014120703	-3.7	92	4.1	22	0.0
2014120704	-3.5	91	4.8	316	0.0
2014120705	-3.4	92	1.9	48	0.0
2014120706	-3.4	92	3.1	156	0.0
2014120707	-3.0	93	2.4	26	0.0
2014120708	-2.6	91	2.0	233	0.0
2014120709	-1.9	89	2.2	30	0.0
2014120710	-1.2	86	2.3	222	0.0
2014120711	-0.2	82	3.7	17	0.0
2014120712	0.3	77	2.2	306	2.2
2014120713	0.9	79	3.7	207	0.2
2014120714	0.3	82	3.1	238	0.0
2014120715	0.4	86	4.4	98	0.0
2014120716	-0.5	89	4.4	85	0.0
2014120717	-0.4	91	5.4	84	0.0
2014120718	-0.2	91	4.6	35	0.0
2014120719	-0.4	92	2.3	337	0.0
2014120720	-0.7	93	4.7	93	0.0
2014120721	-0.9	94	1.6	333	0.0
2014120722	-0.9	94	3.9	136	0.0
2014120723	-0.8	95	3.8	87	0.0
2014120724	-0.7	94	2.6	155	0.0
2014120801	-0.8	95	3.9	109	0.0
2014120802	-0.8	94	3.0	88	0.0
2014120803	-0.9	94	1.6	105	0.0
2014120804	-1.2	95	4.4	89	0.0
2014120805	-1.3	95	1.9	57	0.0
2014120806	-1.3	93	7.2	132	0.0
2014120807	-1.5	93	4.3	103	0.0
2014120808	-1.5	92	1.6	72	0.0
2014120809	-1.2	91	2.9	357	0.0
2014120810	-0.5	88	1.8	157	0.0
2014120811	-0.2	85	6.4	165	0.0
2014120812	-0.1	85	5.2	171	0.0
2014120813	0.2	84	1.9	242	0.0
2014120814	-0.2	85	3.7	257	0.0
2014120815	-0.1	89	4.5	56	0.0
2014120816	-0.6	89	4.4	118	0.0
2014120817	-0.7	90	7.6	149	0.0
2014120818	-0.8	92	6.9	136	0.0
2014120819	-0.7	92	2.8	62	0.0

2014120820	-0.3	91	6.6	134	0.0
2014120821	-0.3	92	3.4	120	0.0
2014120822	-0.6	94	8.9	131	0.0
2014120823	0.1	89	9.7	158	0.0
2014120824	-0.1	92	8.0	127	0.0
2014120901	-0.4	94	4.6	337	0.0
2014120902	-0.6	95	5.9	60	0.0
2014120903	-0.1	90	8.4	122	0.0
2014120904	0.2	92	8.0	137	0.0
2014120905	-0.4	95	4.0	189	0.0
2014120906	-0.2	96	6.5	124	0.0
2014120907	-0.3	95	3.8	217	0.0
2014120908	0.0	95	10.4	147	0.0
2014120909	0.5	94	10.4	158	0.4
2014120910	1.8	89	12.3	142	0.2
2014120911	2.5	87	9.9	145	0.0
2014120912	3.0	85	10.5	127	0.0
2014120913	3.3	90	3.6	53	0.0
2014120914	2.4	93	8.8	118	0.0
2014120915	2.4	95	5.5	120	0.0
2014120916	2.0	95	6.3	246	0.0
2014120917	4.5	89	11.4	106	0.4
2014120918	6.0	83	17.7	105	0.0
2014120919	5.2	84	6.4	138	0.0
2014120920	5.7	82	15.4	134	0.0
2014120921	5.3	84	11.9	115	0.0
2014120922	5.8	81	12.9	108	0.0
2014120923	6.1	78	17.3	96	0.0
2014120924	6.0	78	13.5	115	0.0
2014121001	4.9	81	8.2	103	0.0
2014121002	3.4	85	6.1	120	0.0
2014121003	3.0	90	7.8	105	0.0
2014121004	3.7	86	8.2	108	0.0
2014121005	2.7	91	4.1	104	0.0
2014121006	2.5	91	7.6	130	0.0
2014121007	4.6	86	11.1	123	0.0
2014121008	5.2	88	13.4	126	0.0
2014121009	5.3	88	13.9	140	0.0
2014121010	6.2	84	9.8	125	0.0
2014121011	7.3	78	15.8	124	0.0
2014121012	8.2	73	12.4	127	0.2
2014121013	8.1	70	13.8	96	0.0
2014121014	8.6	71	14.5	117	0.0
2014121015	8.5	71	16.2	133	0.0
2014121016	8.9	68	18.0	107	0.0
2014121017	8.7	67	13.7	112	0.0
2014121018	8.9	66	17.8	103	0.0

2014121019	7.9	69	13.5	111	0.0
2014121020	8.7	64	15.8	118	0.0
2014121021	9.2	61	19.8	102	0.0
2014121022	9.0	62	25.4	98	0.0
2014121023	9.1	60	19.6	108	0.0
2014121024	8.7	62	17.9	108	0.0
2014121101	8.6	66	18.9	117	0.0
2014121102	7.7	75	20.5	114	0.0
2014121103	7.5	75	15.1	124	0.0
2014121104	7.7	73	16.7	103	0.0
2014121105	7.6	69	15.4	112	0.0
2014121106	7.1	71	18.6	99	0.0
2014121107	7.0	69	8.6	103	0.0
2014121108	6.8	65	16.3	108	0.0
2014121109	6.6	62	13.1	119	0.0
2014121110	8.3	58	13.2	147	0.0
2014121111	7.7	61	9.8	111	0.0
2014121112	7.3	66	7.7	173	0.0
2014121113	6.3	74	7.9	148	0.0
2014121114	7.3	70	14.8	141	0.0
2014121115	7.0	73	12.4	133	0.0
2014121116	7.7	70	20.6	101	0.0
2014121117	6.6	77	17.2	101	0.0
2014121118	7.1	74	19.8	119	0.0
2014121119	7.7	71	20.6	110	0.0
2014121120	8.1	69	24.1	119	0.0
2014121121	8.3	69	21.3	105	0.0
2014121122	8.6	67	20.4	117	0.0
2014121123	8.3	74	22.5	120	0.0
2014121124	8.4	72	19.9	103	0.0
2014121201	6.9	85	4.8	69	0.0
2014121202	8.1	74	11.0	110	0.0
2014121203	7.5	76	9.5	115	0.0
2014121204	8.8	68	19.1	100	0.0
2014121205	8.7	68	15.5	105	0.0
2014121206	8.2	69	10.9	113	0.0
2014121207	7.9	70	10.6	116	0.0
2014121208	7.9	68	16.9	99	0.0
2014121209	8.7	64	9.4	136	0.0
2014121210	8.5	65	13.1	126	0.0
2014121211	9.6	61	15.7	126	0.0
2014121212	10.9	54	12.6	131	0.0
2014121213	9.9	59	13.8	157	0.0
2014121214	9.1	58	13.4	104	0.0
2014121215	7.2	68	9.8	120	0.0
2014121216	5.1	79	7.2	122	0.0
2014121217	3.8	82	6.0	105	0.0

2014121218	3.4	85	4.1	111	0.0
2014121219	2.9	87	2.3	78	0.0
2014121220	2.2	92	6.1	296	0.0
2014121221	1.8	95	6.0	335	0.0
2014121222	1.5	95	7.8	308	0.0
2014121223	-0.3	96	2.4	300	0.0
2014121224	0.5	97	8.2	301	0.0
2014121301	-0.6	97	2.4	293	0.0
2014121302	0.5	97	10.6	316	0.0
2014121303	0.3	97	2.0	13	0.0
2014121304	0.7	96	3.9	350	0.0
2014121305	0.9	91	9.8	323	0.0
2014121306	0.7	92	5.2	328	0.0
2014121307	0.8	92	14.8	331	0.0
2014121308	0.2	96	4.2	314	0.0
2014121309	0.5	95	6.1	312	0.0
2014121310	0.9	93	2.6	287	0.0
2014121311	2.5	85	4.6	275	0.0
2014121312	4.3	68	11.1	286	0.0
2014121313	5.1	59	23.2	283	0.0
2014121314	5.0	58	26.3	290	0.0
2014121315	2.8	63	18.0	300	0.0
2014121316	1.8	67	12.4	322	0.0
2014121317	1.2	70	11.2	342	0.0
2014121318	0.8	71	10.0	336	0.0
2014121319	0.6	72	9.2	335	0.0
2014121320	0.1	74	8.3	358	0.0
2014121321	-0.7	78	7.6	355	0.0
2014121322	-1.5	82	6.0	348	0.0
2014121323	-2.0	83	4.6	11	0.0
2014121324	-2.8	87	3.5	309	0.0
2014121401	-2.9	85	7.1	323	0.0
2014121402	-3.1	86	7.0	330	0.0
2014121403	-3.4	88	8.5	308	0.0
2014121404	-3.8	93	10.2	300	0.0
2014121405	-3.6	90	6.1	311	0.0
2014121406	-3.6	88	7.3	324	0.0
2014121407	-4.0	87	10.5	304	0.0
2014121408	-4.0	87	7.4	304	0.0
2014121409	-3.5	85	8.7	305	0.0
2014121410	-3.0	81	7.6	302	0.0
2014121411	-2.7	79	5.9	258	0.0
2014121412	-2.5	79	8.4	273	0.0
2014121413	-0.3	68	8.9	243	0.0
2014121414	-0.1	69	7.6	258	0.0
2014121415	-2.7	78	0.0	271	0.0
2014121416	-3.4	83	4.6	331	0.0

2014121417	-4.6	89	4.5	344	0.0
2014121418	-4.6	85	6.0	331	0.0
2014121419	-5.3	89	6.7	342	0.0
2014121420	-6.3	91	0.0	307	0.0
2014121421	-7.1	91	1.8	17	0.0
2014121422	-7.2	90	2.4	118	0.0
2014121423	-6.2	91	3.9	309	0.0
2014121424	-5.9	89	7.8	314	0.0
2014121501	-5.7	86	9.2	312	0.0
2014121502	-5.4	87	6.4	309	0.0
2014121503	-5.8	90	3.4	359	0.0
2014121504	-5.9	90	2.4	316	0.0
2014121505	-5.8	87	2.7	276	0.0
2014121506	-5.7	86	1.6	271	0.0
2014121507	-5.8	85	2.1	212	0.0
2014121508	-5.7	86	1.6	203	0.0
2014121509	-5.4	85	3.2	280	0.0
2014121510	-4.9	82	5.0	265	0.0
2014121511	-4.2	81	3.7	269	0.0
2014121512	-3.6	74	4.5	259	0.0
2014121513	-3.1	76	5.3	168	0.0
2014121514	-2.8	75	6.5	154	0.0
2014121515	-3.1	76	4.8	154	0.0
2014121516	-3.7	80	5.6	98	0.0
2014121517	-3.9	82	2.8	81	0.0
2014121518	-4.1	84	2.9	216	0.0
2014121519	-4.3	85	3.6	333	0.0
2014121520	-4.5	87	2.6	247	0.0
2014121521	-4.5	83	2.6	152	0.0
2014121522	-4.5	87	3.2	291	0.0
2014121523	-4.9	85	3.3	260	0.0
2014121524	-4.8	84	1.8	261	0.0
2014121601	-5.0	85	3.2	278	0.0
2014121602	-5.0	84	3.0	245	0.0
2014121603	-5.2	80	4.0	251	0.0
2014121604	-5.2	81	2.0	354	0.0
2014121605	-5.2	78	1.7	153	0.0
2014121606	-5.2	80	0.0	253	0.0
2014121607	-5.1	79	0.0	249	0.0
2014121608	-5.1	82	0.0	277	0.0
2014121609	-4.9	73	5.4	296	0.0
2014121610	-4.5	71	4.7	272	0.0
2014121611	-4.1	67	6.6	280	0.0
2014121612	-3.8	68	4.3	247	0.0
2014121613	-3.5	68	4.0	176	0.0
2014121614	-3.6	69	4.3	241	0.0
2014121615	-3.5	69	6.0	299	0.0

2014121616	-4.1	74	1.7	0	0.0
2014121617	-4.4	76	2.1	114	0.0
2014121618	-4.5	78	3.0	114	0.0
2014121619	-4.5	77	5.1	98	0.0
2014121620	-4.4	79	1.8	320	0.0
2014121621	-4.4	78	2.4	85	0.0
2014121622	-4.3	77	3.9	279	0.0
2014121623	-4.6	80	5.4	305	0.0
2014121624	-4.6	73	5.4	355	0.0
2014121701	-4.6	77	4.9	304	0.0
2014121702	-4.7	74	5.2	338	0.0
2014121703	-4.7	73	6.6	303	0.0
2014121704	-4.8	70	6.6	312	0.0
2014121705	-5.0	72	3.4	3	0.0
2014121706	-5.1	76	0.0	155	0.0
2014121707	-5.1	76	0.0	82	0.0
2014121708	-5.1	79	1.8	265	0.0
2014121709	-4.7	71	3.4	316	0.0
2014121710	-4.4	70	6.6	270	0.0
2014121711	-4.1	70	5.0	250	0.0
2014121712	-3.5	68	2.5	286	0.0
2014121713	-3.3	68	4.3	249	0.0
2014121714	-3.2	68	3.8	271	0.0
2014121715	-3.3	69	2.2	266	0.0
2014121716	-3.6	72	1.6	289	0.0
2014121717	-3.6	71	4.4	312	0.0
2014121718	-4.1	74	1.6	84	0.0
2014121719	-4.9	78	2.1	125	0.0
2014121720	-4.2	76	2.8	349	0.0
2014121721	-4.1	77	3.4	53	0.0
2014121722	-4.0	75	3.9	125	0.0
2014121723	-4.0	80	2.3	87	0.0
2014121724	-3.9	79	2.1	255	0.0
2014121801	-4.0	80	3.6	310	0.0
2014121802	-3.8	82	0.0	233	0.0
2014121803	-4.3	79	3.3	48	0.0
2014121804	-4.1	81	2.6	103	0.0
2014121805	-4.0	83	3.5	261	0.0
2014121806	-4.0	80	5.9	113	0.0
2014121807	-3.9	82	1.8	330	0.0
2014121808	-3.9	84	0.0	139	0.0
2014121809	-3.5	80	5.2	180	0.0
2014121810	-3.3	82	4.7	228	0.0
2014121811	-3.4	85	3.5	239	0.0
2014121812	-3.2	85	3.7	238	0.0
2014121813	-2.7	84	4.0	137	0.0
2014121814	-2.8	86	2.6	228	0.0

2014121815	-2.8	88	4.0	253	0.0
2014121816	-3.0	90	2.3	177	0.0
2014121817	-3.0	91	3.6	145	0.0
2014121818	-3.1	92	5.9	259	0.0
2014121819	-3.1	94	4.4	71	0.0
2014121820	-3.2	94	2.5	37	0.0
2014121821	-3.2	94	1.9	303	0.0
2014121822	-3.1	94	1.8	249	0.0
2014121823	-3.0	94	2.0	325	0.0
2014121824	-3.0	94	2.7	5	0.0
2014121901	-3.2	94	0.0	196	0.0
2014121902	-3.1	94	0.0	172	0.0
2014121903	-3.2	93	1.7	212	0.0
2014121904	-3.1	93	3.8	284	0.0
2014121905	-3.0	93	3.0	320	0.0
2014121906	-3.0	93	4.2	4	0.0
2014121907	-2.7	93	3.0	340	0.0
2014121908	-2.7	94	2.6	341	0.0
2014121909	-2.1	93	2.8	231	0.0
2014121910	-1.7	92	3.6	279	0.0
2014121911	-1.2	90	4.2	256	0.0
2014121912	-1.3	93	3.5	327	0.0
2014121913	-1.1	94	3.7	311	0.0
2014121914	-1.0	95	5.3	315	0.0
2014121915	-0.5	94	3.0	22	0.0
2014121916	-0.1	92	9.3	340	0.0
2014121917	-0.1	94	4.6	344	0.0
2014121918	-0.2	95	2.3	342	0.0
2014121919	-0.2	95	4.4	3	0.0
2014121920	0.0	94	2.9	165	0.0
2014121921	-0.1	95	3.1	160	0.0
2014121922	-0.7	96	2.2	270	0.0
2014121923	-0.8	97	6.3	81	0.0
2014121924	-1.7	96	3.8	204	0.0