



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W 451m asl Estab. 2011

Preliminary

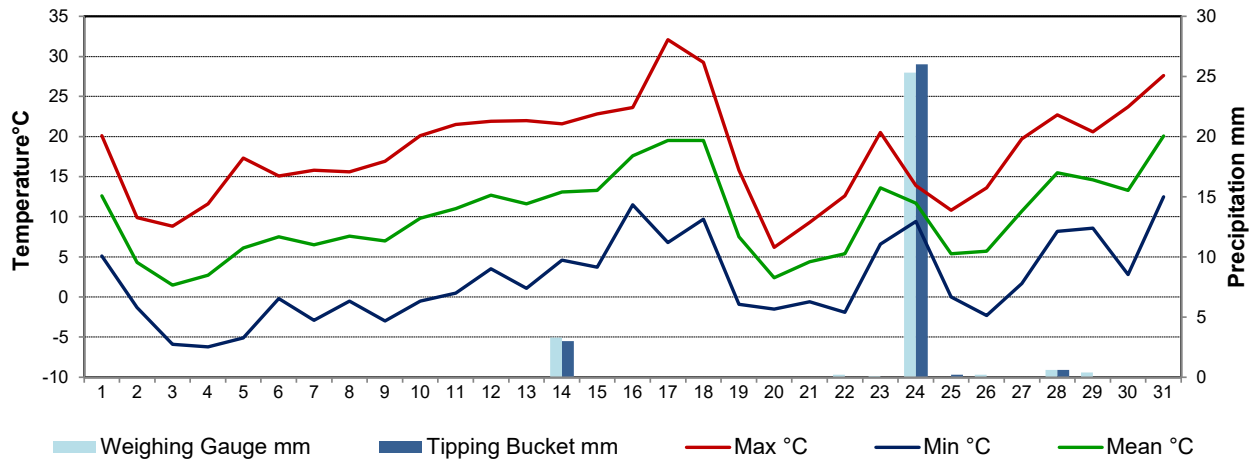
May 2021

Day	Temperature			Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Min	Mean	Growing	Heating	Cooling	Weighing Gauge	Tipping Bucket	Notes	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	°C	°C	5°C base	18°C base	18°C base	mm	mm		%	%	mbar	mbar
1	20.1	5.1	12.6	7.6	5.4	0.0	0.0	0.0		91	25	1004	1000
2	9.9	-1.3	4.3	0.0	13.7	0.0	0.0	0.0		96	44	1018	1005
3	8.8	-5.9	1.5	0.0	16.5	0.0	0.0	0.0		94	19	1021	1018
4	11.6	-6.2	2.7	0.0	15.3	0.0	0.0	0.0		95	22	1019	1018
5	17.3	-5.1	6.1	1.1	11.9	0.0	0.0	0.0		90	18	1022	1019
6	15.1	-0.2	7.5	2.5	10.5	0.0	0.0	0.0		67	20	1025	1020
7	15.8	-2.9	6.5	1.5	11.5	0.0	0.0	0.0		85	22	1022	1017
8	15.6	-0.5	7.6	2.6	10.4	0.0	0.0	0.0		78	19	1022	1019
9	16.9	-3.0	7.0	2.0	11.0	0.0	0.0	0.0		83	18	1025	1022
10	20.1	-0.5	9.8	4.8	8.2	0.0	0.0	0.0		80	12	1023	1019
11	21.5	0.5	11.0	6.0	7.0	0.0	0.0	0.0		80	20	1020	1018
12	21.9	3.5	12.7	7.7	5.3	0.0	0.0	0.0		85	22	1018	1017
13	22.0	1.1	11.6	6.6	6.4	0.0	0.0	0.0		100	24	1018	1016
14	21.6	4.6	13.1	8.1	4.9	0.0	3.3	3.0		100	34	1018	1015
15	22.8	3.7	13.3	8.3	4.7	0.0	0.0	0.0		100	34	1016	1006
16	23.6	11.5	17.6	12.6	0.4	0.0	0.0	0.0		74	32	1011	1006
17	32.1	6.8	19.5	14.5	0.0	1.5	0.0	0.0		83	15	1010	998
18	29.3	9.7	19.5	14.5	0.0	1.5	0.0	0.0		84	16	1000	998
19	15.8	-0.9	7.5	2.5	10.5	0.0	0.0	0.0		70	42	1022	1000
20	6.2	-1.5	2.4	0.0	15.6	0.0	0.0	0.0		73	42	1024	1022
21	9.3	-0.6	4.4	0.0	13.6	0.0	0.0	0.0		89	44	1026	1023
22	12.6	-1.9	5.4	0.4	12.6	0.0	0.2	0.0		100	55	1028	1024
23	20.5	6.6	13.6	8.6	4.4	0.0	0.1	0.0		85	44	1024	1008
24	13.9	9.4	11.7	6.7	6.3	0.0	25.3	26.0		99	68	1008	989
25	10.8	0.0	5.4	0.4	12.6	0.0	0.0	0.2		97	53	1021	995
26	13.6	-2.3	5.7	0.7	12.3	0.0	0.2	0.0		100	37	1024	1021
27	19.7	1.7	10.7	5.7	7.3	0.0	0.0	0.0		85	31	1022	1010
28	22.7	8.2	15.5	10.5	2.5	0.0	0.6	0.6		84	27	1010	1002
29	20.6	8.6	14.6	9.6	3.4	0.0	0.4	0.0		92	21	1015	1004
30	23.7	2.8	13.3	8.3	4.7	0.0	0.0	0.0		96	18	1020	1015
31	27.6	12.5	20.1	15.1	0.0	2.1	0.0	0.0		61	22	1016	1012
Total				168.9	248.9	5.1	30.1	29.8					
Avg	18.2	2.0	10.1				70.3	Cumulative ppt					
Extreme	32.1	-6.2					25.3	26.0	0	100	12	1028	989
Date	17	4					24	24		13	10	22	24

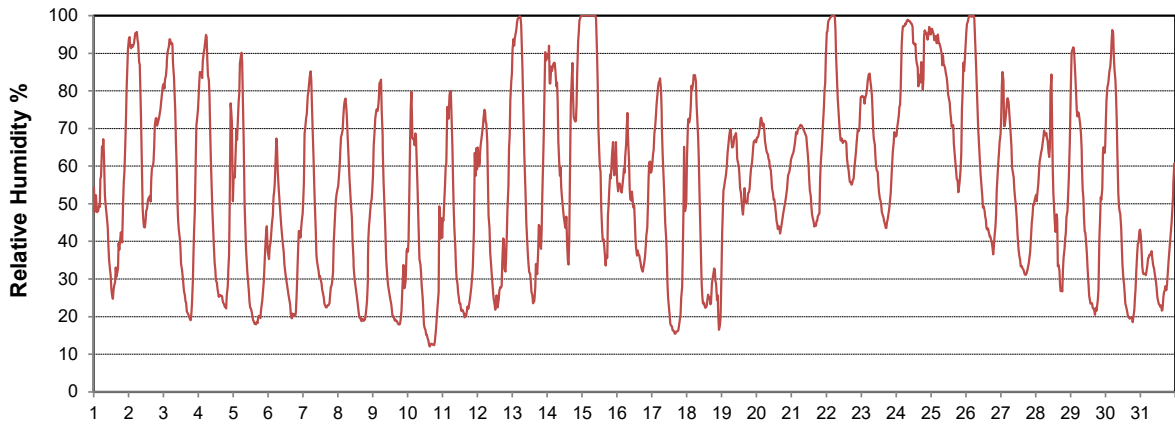
SRC proudly recognizes the following CRS supporters:



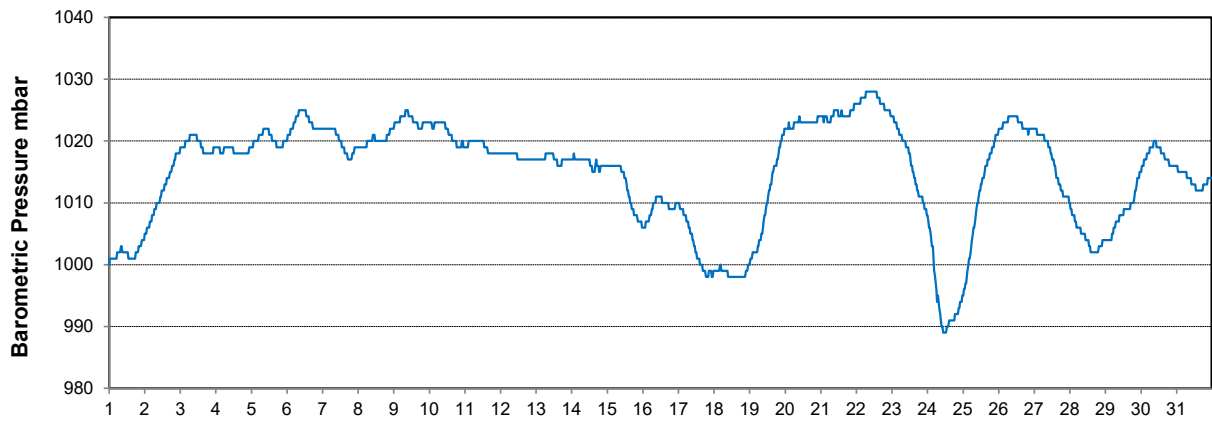
Temperature and Precipitation for May 2021



Relative Humidity for May 2021



Barometric Pressure Corrected to Sea Level for May 2021





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Saskatchewan 53.03°N 105.77°W 451m asl Estab. 2011

Preliminary

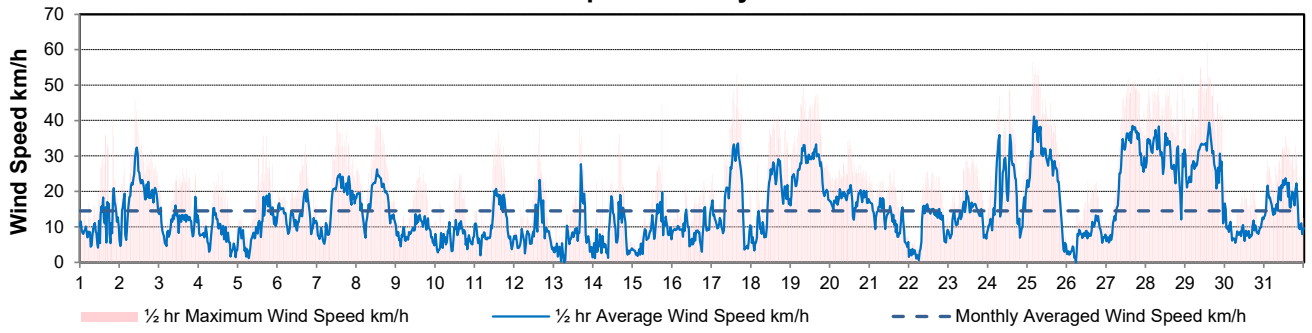
May 2021

Day	Wind Gust			Wind Speed (10 meters) Daily Average	Soil Temperatures at 0900hrs								Radiation				
	Max	Direction	Time		Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm	Bright Sunshine	Possible	% Possible	Global	Diffuse
	km/h				°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²	MJ/m ²
1	40.9	N	19:53	10.6	13.5	5.0	4.5	4.0	2.5	1.5	1.5	3.0	6.8	15.1	45.2	15.6	8.6
2	45.9	N	9:13	19.2	7.5	5.5	5.5	5.0	3.0	2.0	1.5	3.0	3.8	15.1	25.1	12.3	6.2
3	26.6	NNW	14:29	11.2	1.5	3.0	3.0	4.0	3.5	2.0	1.5	3.0	14.7	15.2	96.8	25.1	3.0
4	25.5	NE	14:00	7.7	4.0	3.0	3.0	4.0	3.5	2.0	2.0	3.0	14.6	15.2	95.8	27.9	3.5
5	35.7	WNW	15:06	9.7	7.0	3.0	3.5	4.0	3.5	2.5	2.0	3.0	13.2	15.3	86.3	25.5	5.3
6	33.4	N	16:37	13.1	6.5	4.5	4.5	5.0	3.5	2.5	2.0	3.0	14.4	15.4	93.8	27.3	3.5
7	42.1	E	12:27	16.6	9.0	4.5	4.5	5.0	4.0	2.5	2.0	3.0	14.5	15.4	94.0	26.2	5.8
8	42.5	E	12:57	17.3	8.0	5.0	5.0	5.5	4.0	2.5	2.0	3.0	14.6	15.5	94.4	26.8	8.6
9	27.2	E	14:19	8.7	8.5	5.0	5.0	5.5	4.5	3.0	2.0	3.0	14.9	15.5	95.9	27.9	3.8
10	24.8	WSW	14:58	7.6	10.5	5.0	5.5	5.5	4.5	3.0	2.5	3.0	14.1	15.6	90.4	25.7	6.5
11	36.9	SSW	14:07	10.4	15.0	6.0	6.0	6.0	5.0	3.0	2.5	3.0	11.8	15.7	75.4	23.9	7.8
12	40.5	NNW	15:07	8.5	15.0	7.0	7.0	6.5	5.0	3.5	2.5	3.0	10.3	15.7	65.6	21.4	8.2
13	37.7	NNE	15:53	7.7	13.0	7.0	7.0	7.0	5.5	3.5	2.5	3.0	12.4	15.8	78.7	24.4	7.1
14	36.2	NNW	15:31	8.1	14.0	8.0	8.0	7.5	6.0	3.5	2.5	3.0	7.2	15.8	45.5	16.1	8.7
15	44.9	NNE	17:33	8.5	9.0	8.0	8.0	7.5	6.0	4.0	3.0	3.0	6.9	15.9	43.5	20.1	8.2
16	22.8	E	19:29	9.5	15.0	9.5	9.5	8.5	6.5	4.0	3.0	3.0	7.9	15.9	49.6	18.5	10.1
17	53.0	SSW	15:19	17.3	19.0	9.5	9.5	9.0	7.0	4.5	3.0	3.0	14.6	16.0	91.4	25.3	7.7
18	42.0	WSW	13:44	17.0	17.5	10.5	10.5	9.5	7.0	4.5	3.0	3.0	12.2	16.0	76.2	22.7	8.4
19	49.3	WSW	7:54	26.4	7.5	10.0	10.5	10.0	7.5	5.0	3.5	3.0	10.4	16.1	64.7	22.8	12.5
20	34.6	NE	11:58	17.8	0.0	7.5	8.5	8.5	7.5	5.0	3.5	3.0	4.1	16.1	25.4	16.3	12.8
21	26.4	ENE	14:39	12.0	0.5	7.0	7.5	8.0	7.5	5.0	3.5	3.0	5.0	16.2	30.9	15.9	9.3
22	25.6	ESE	10:49	9.8	6.0	7.0	7.0	7.5	7.0	5.5	3.5	3.0	8.3	16.2	51.2	21.4	10.2
23	29.3	S	14:29	13.1	12.0	8.5	8.5	8.0	7.0	5.5	4.0	3.0	12.0	16.3	73.8	23.7	11.0
24	48.9	S	12:45	20.4	10.0	10.0	10.0	9.0	7.0	5.5	4.0	3.0	0.0	16.3	0.0	7.1	6.3
25	56.5	N	3:29	26.0	3.5	8.5	9.0	9.0	7.0	5.5	4.0	3.0	5.7	16.3	34.9	15.4	9.8
26	22.9	S	12:47	7.2	6.0	6.0	6.5	7.5	7.5	5.5	4.0	3.0	15.7	16.4	95.8	30.8	5.3
27	51.6	SSE	13:26	26.2	11.5	8.0	8.0	8.5	7.5	5.5	4.0	3.0	14.8	16.4	90.1	29.7	4.9
28	52.2	WSW	22:23	30.1	12.0	9.0	9.5	9.0	7.5	5.5	4.5	3.0	8.6	16.5	52.2	20.8	7.6
29	62.3	NW	13:04	27.3	14.5	10.0	10.0	9.5	7.5	6.0	4.5	3.5	13.3	16.5	80.6	29.5	4.5
30	22.2	SSW	17:24	9.1	12.0	9.5	9.5	9.5	8.0	6.0	4.5	3.5	15.2	16.5	91.9	30.5	3.5
31	35.5	WSW	12:57	17.2	19.5	11.0	11.0	10.5	8.5	6.0	4.5	3.5	11.0	16.6	66.4	22.5	13.3
Total													333.0	492.3	67.6	699.1	232.0
Mean					10.0	7.1	7.3	7.2	5.9	4.0	3.0	3.0					
Extreme	62.3	NW	13:04														
Date	29																

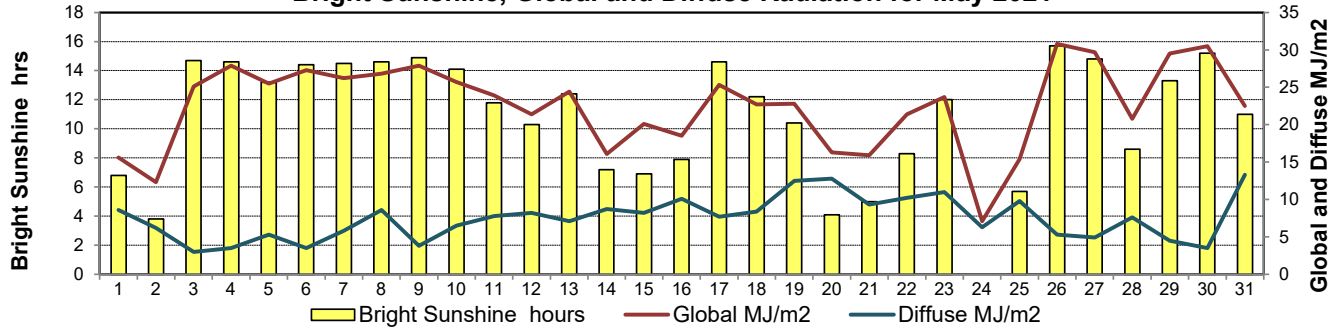
GLOSSARY OF TERMS

Degree-days	Radiation
Tm Mean Temperature	Bright Sunshine is the unobstructed direct radiation from the sun, as opposed to the shading of a location by clouds or by other atmospheric obstructions.
Growing (Tm-5°C); if Tm ≤ 5°C then GDD = 0	
Heating (18°C-Tm); if Tm ≥ 18°C then HDD = 0	Diffuse is radiation reaching the earth's surface after having been scattered from the direct solar beam
Cooling (Tm-18°C); if Tm ≤ 18°C then CDD = 0	Global is the sum of the direct solar and diffuse radiation
T Trace of Precipitation	Relative Humidity The ratio of the air's water vapour content of its water vapour capacity which changes with temperature.
SOG Depth of snow-on-the-ground	
Red Cell no data available	Air Pressure The force exerted by the weight of a column of air above a given point
Red Number manual calculation	Wind Gust The daily highest instantaneous value recorded irrespective of direction and/or duration

Wind Speed for May 2021

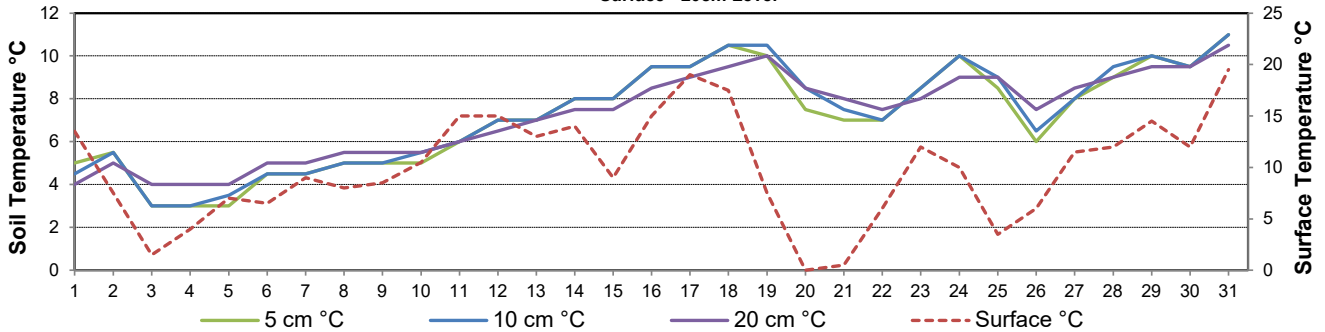


Bright Sunshine, Global and Diffuse Radiation for May 2021



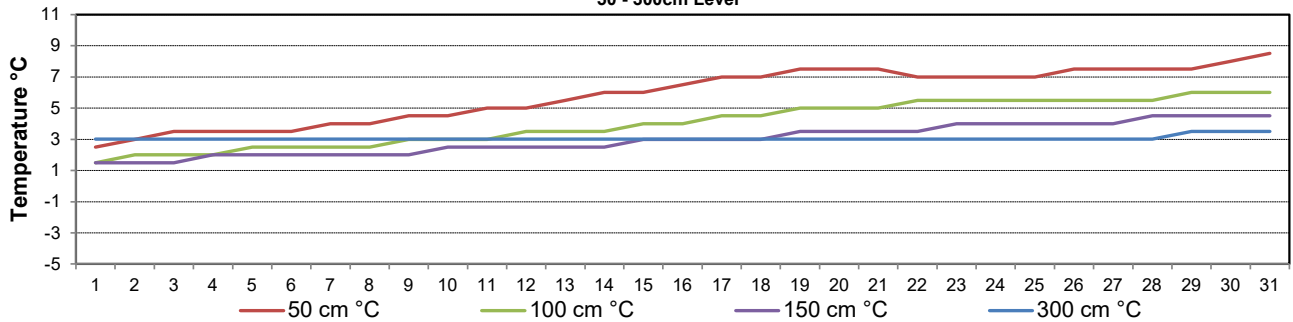
9 am Soil Temperatures for May 2021

Surface - 20cm Level



9 am Soil Temperatures for May 2021

50 - 300cm Level





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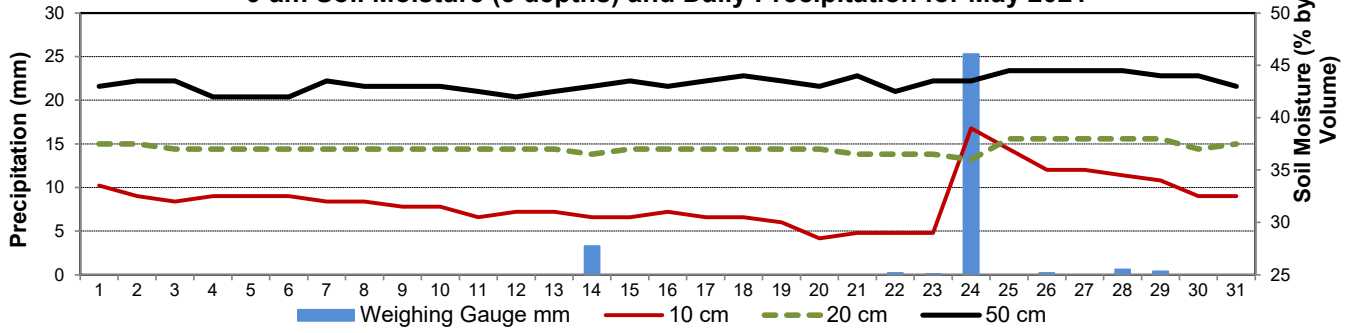
Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)																		
	Daily Average	Max ½ hr Avg	½ hr Extreme Max	10 cm	20 cm	50 cm																
	km/h	km/h	km/h	% by volume (soil type is Clay Loam)																		
1	8.0	15.0	29.1	33.5	37.5	43.0																
2	15.0	24.9	35.4	32.5	37.5	43.5																
3	9.0	13.6	21.8	32.0	37.0	43.5																
4	6.0	13.3	21.4	32.5	37.0	42.0																
5	7.0	14.9	29.6	32.5	37.0	42.0																
6	10.0	16.0	25.0	32.5	37.0	42.0																
7	12.0	19.0	33.9	32.0	37.0	43.5																
8	13.0	20.9	32.0	32.0	37.0	43.0																
9	7.0	11.6	22.4	31.5	37.0	43.0																
10	5.0	10.7	24.3	31.5	37.0	43.0																
11	9.0	17.0	33.1	30.5	37.0	42.5																
12	7.0	18.3	32.0	31.0	37.0	42.0																
13	6.0	19.3	26.6	31.0	37.0	42.5																
14	6.0	15.4	27.5	30.5	36.5	43.0																
15	6.0	15.2	34.4	30.5	37.0	43.5																
16	7.0	13.0	18.3	31.0	37.0	43.0																
17	13.0	27.6	40.8	30.5	37.0	43.5																
18	13.0	22.4	32.9	30.5	37.0	44.0																
19	21.0	25.9	36.6	30.0	37.0	43.5																
20	14.0	16.9	26.6	28.5	37.0	43.0																
21	10.0	14.1	21.0	29.0	36.5	44.0																
22	7.0	13.0	22.4	29.0	36.5	42.5																
23	10.0	16.8	26.8	29.0	36.5	43.5																
24	15.0	27.8	37.9	39.0	36.0	43.5																
25	20.0	31.4	43.7	37.0	38.0	44.5																
26	6.0	11.0	20.0	35.0	38.0	44.5																
27	19.0	28.9	40.8	35.0	38.0	44.5																
28	23.0	29.6	42.1	34.5	38.0	44.5																
29	22.0	30.2	45.8	34.0	38.0	44.0																
30	7.0	11.8	20.0	32.5	37.0	44.0																
31	13.0	11.0	27.0	32.5	37.5	43.0																
Total																						
Mean				32	37	43.3																
Extreme	23.0	31.4	45.8	39	38	44.5																
Date	0	0	0	0	0	0																

Spring Maintenance: May 3 2021 Reinstalled temperature /Relative Humidity back up sensor, tipping bucket uncapped and cleaned, recalibrated global and diffuse pyranometers installed and calibration numbers uploaded into program, Geonor spring maintenance plus one transducer was replaced. descicant replaced where needed.

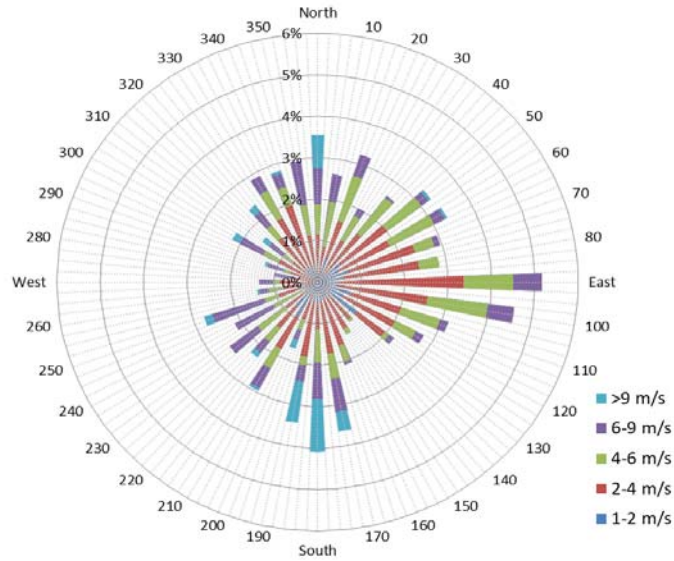
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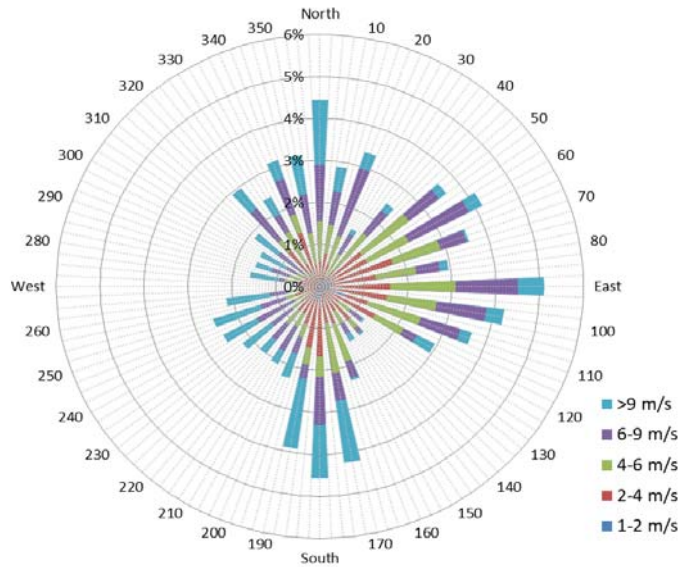
9 am Soil Moisture (3 depths) and Daily Precipitation for May 2021



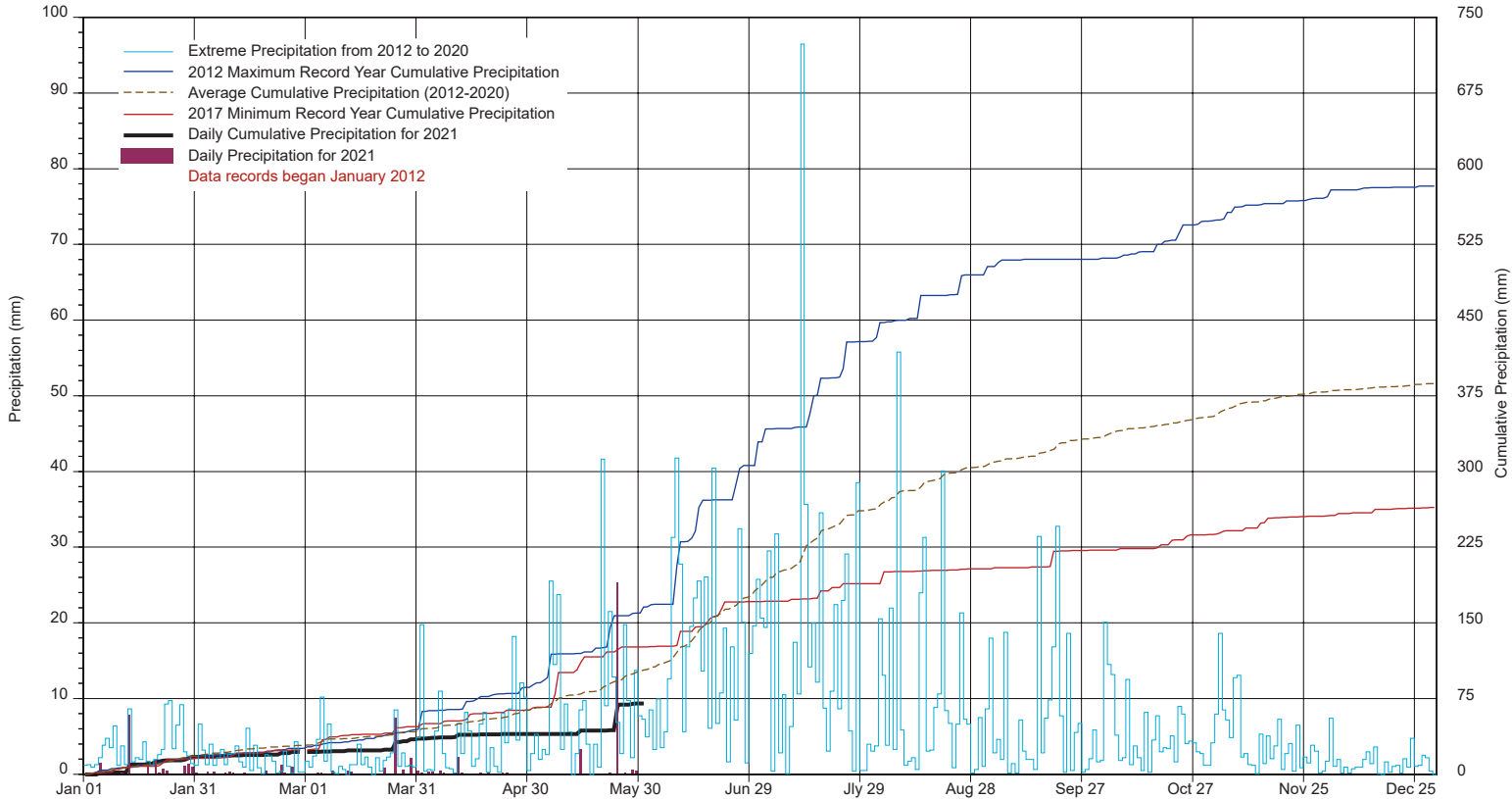
10 minute Average Wind Speed and Direction CLC May 2021



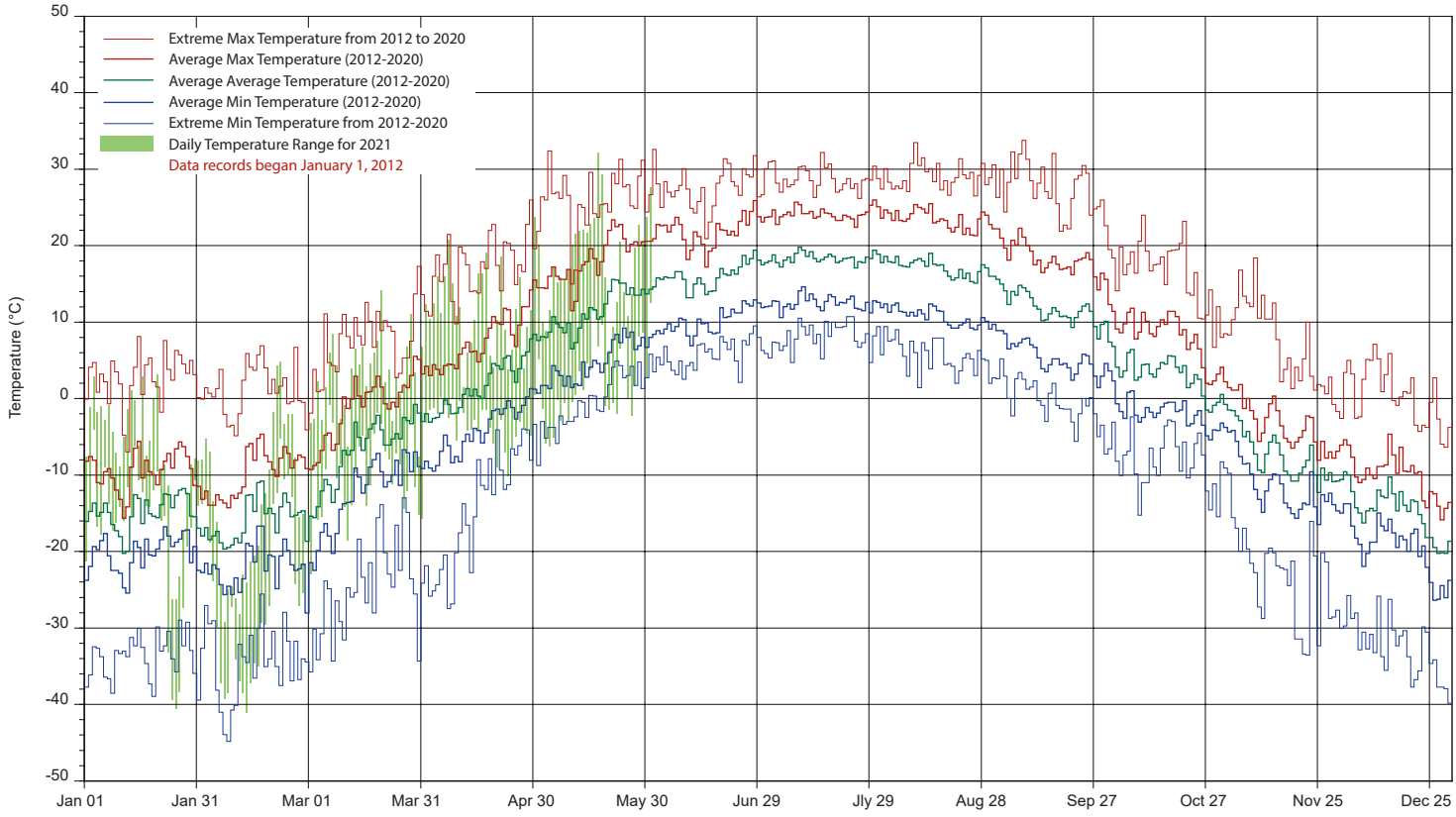
1/2 hr Maximum Wind Speed and Direction CLC May 2021



SRC's CLIMATE REFERENCE STATION at the Conservation Learning Centre 2021 PRECIPITATION AND AVERAGE



2021 TEMPERATURES AND AVERAGES



SRC proudly recongnizes the following CRS supporters:

