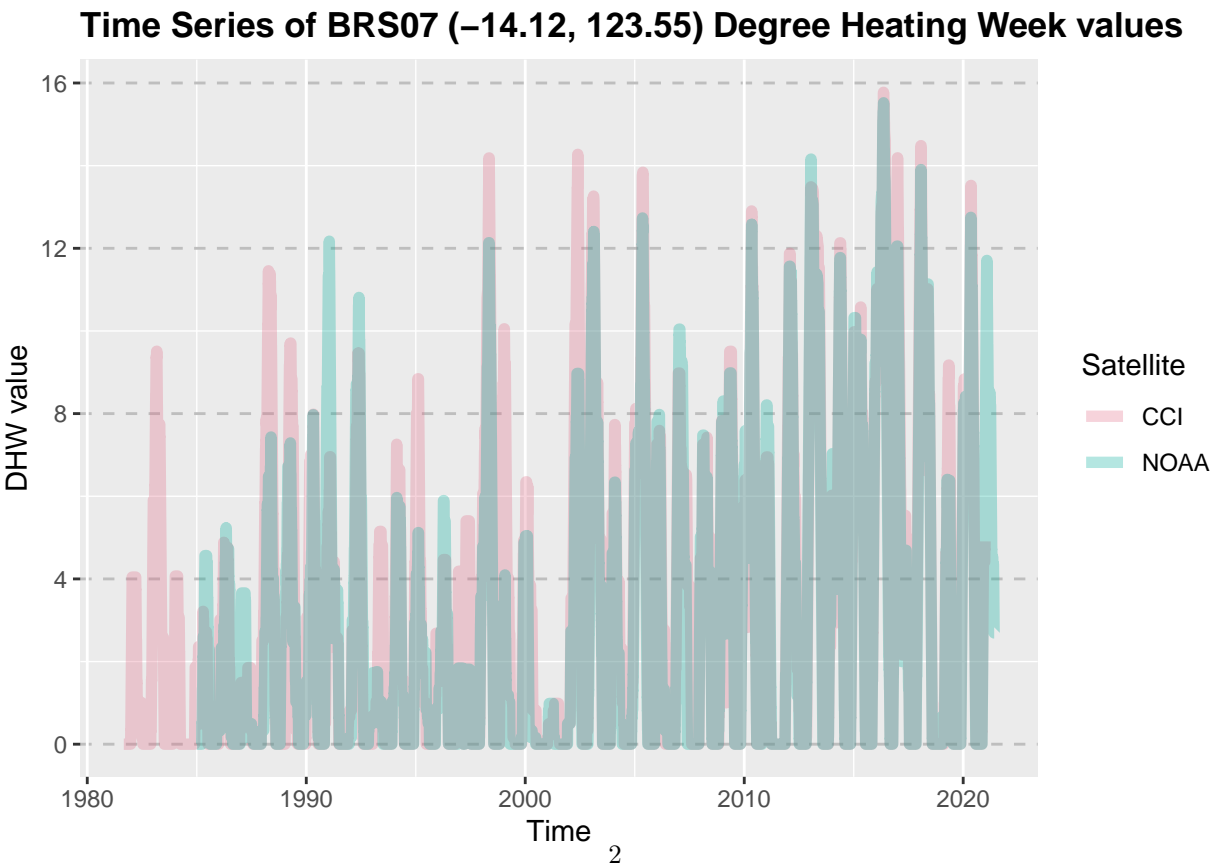
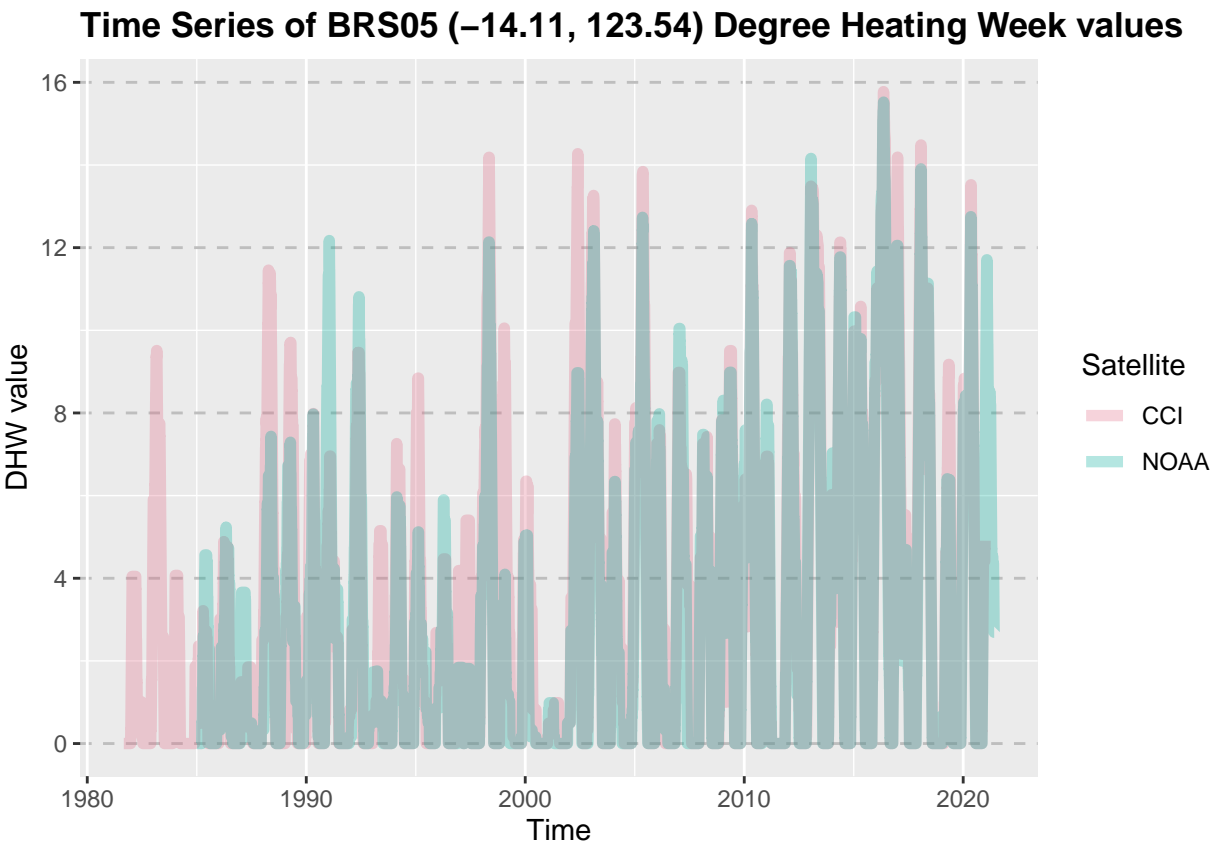


Degree Heating Week Analysis

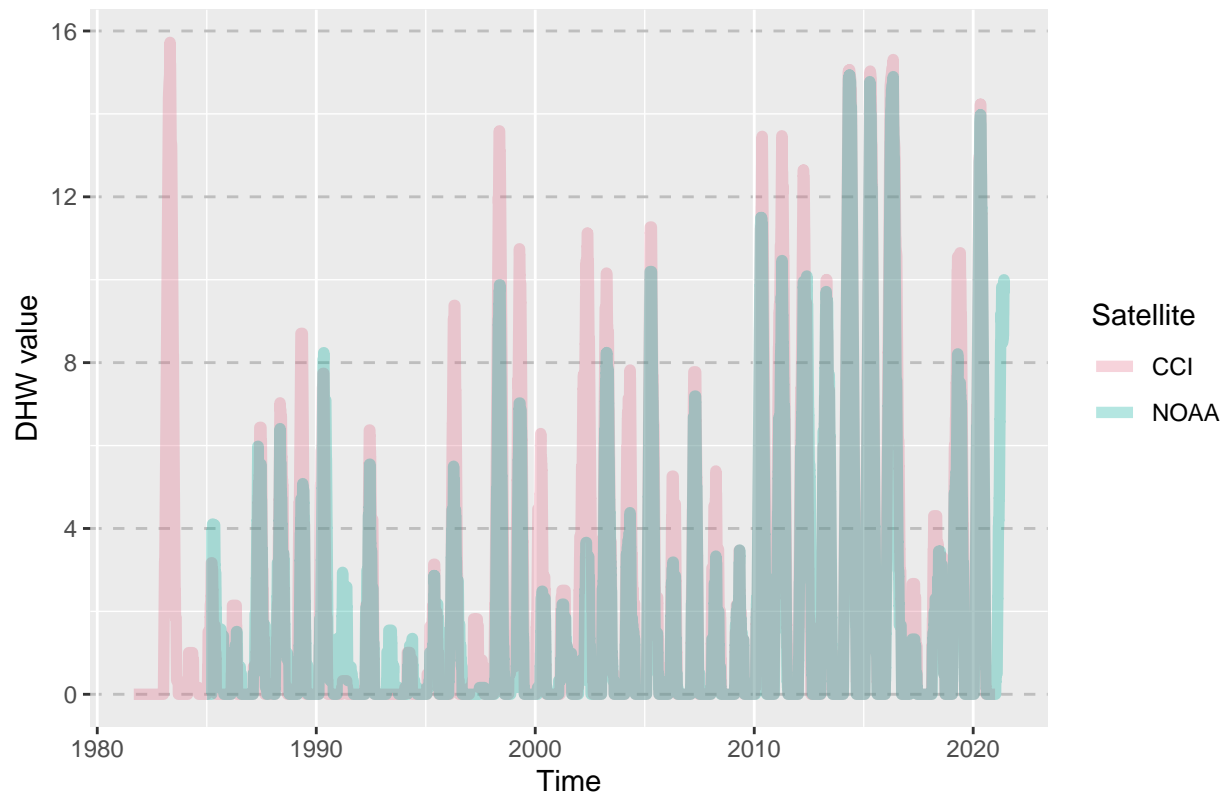
Vanessa

2021-09-14

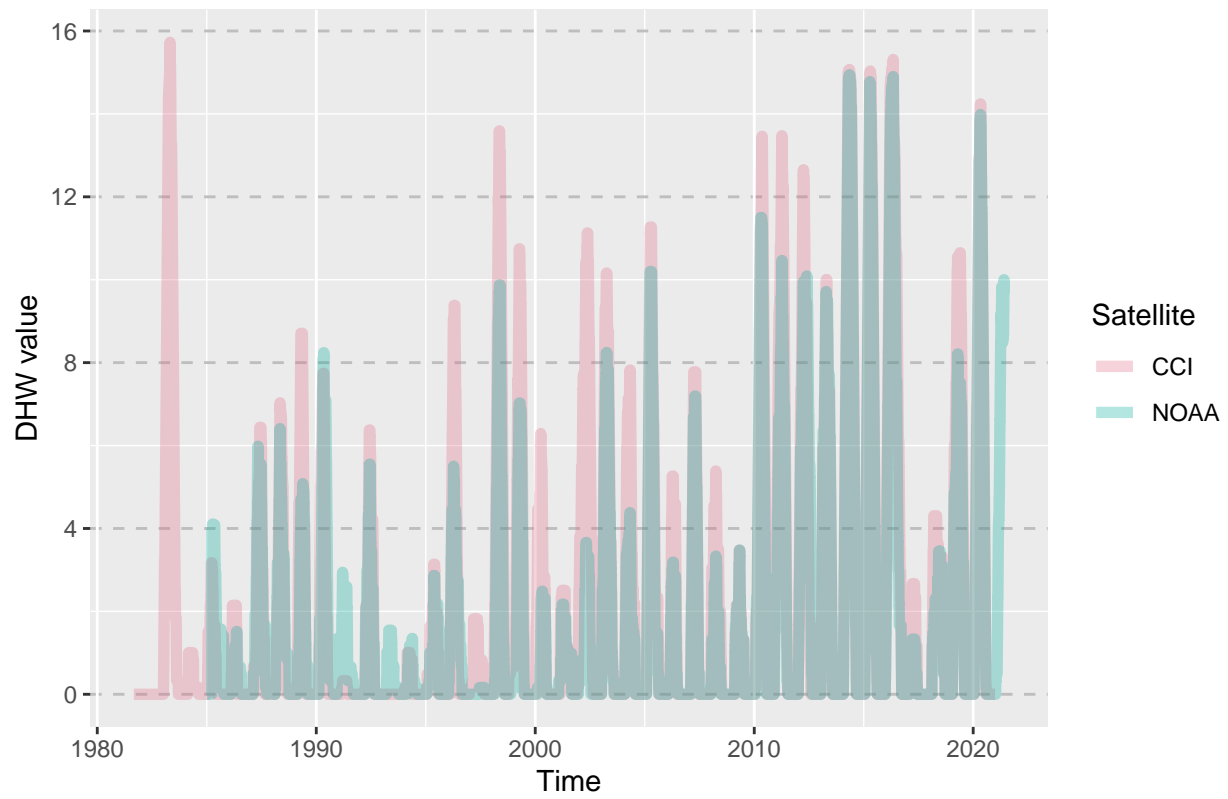
Degree Heating Week Time Series Plots for CCI and NOAA data:



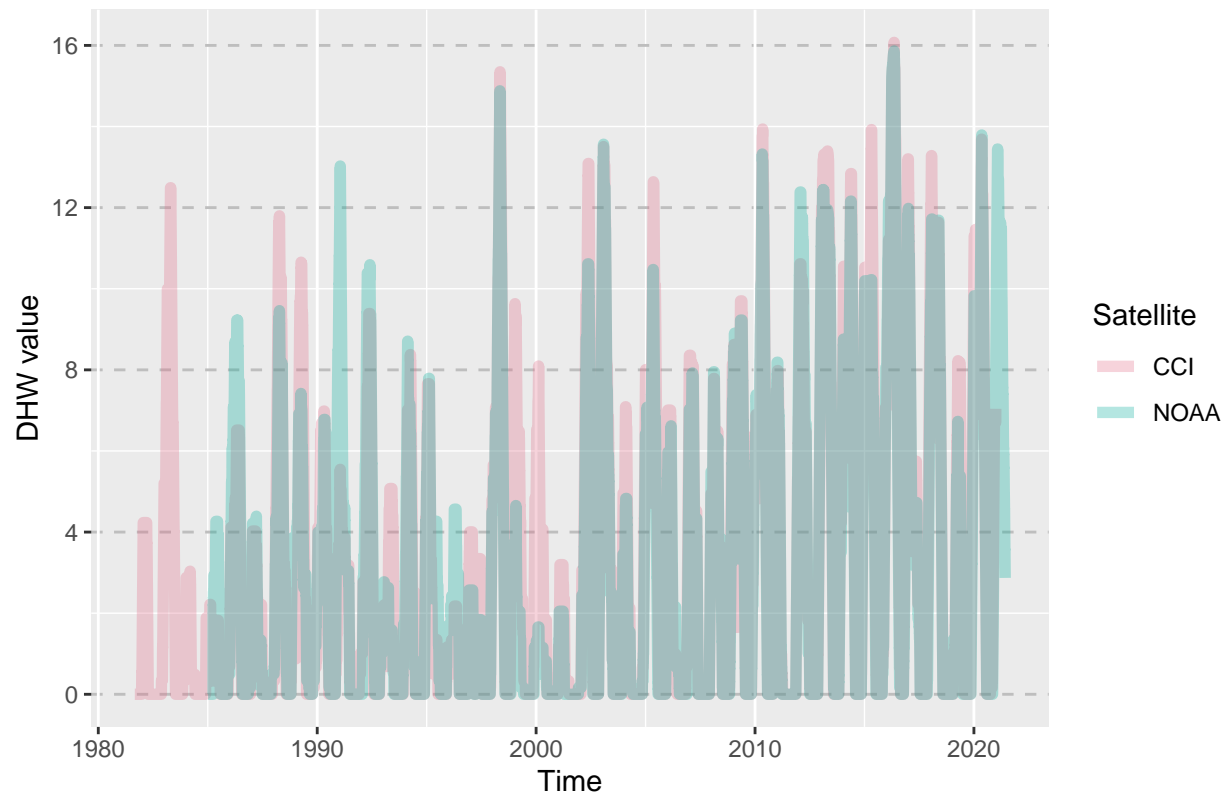
Time Series of DAR3 (–12.10, 96.88) Degree Heating Week values



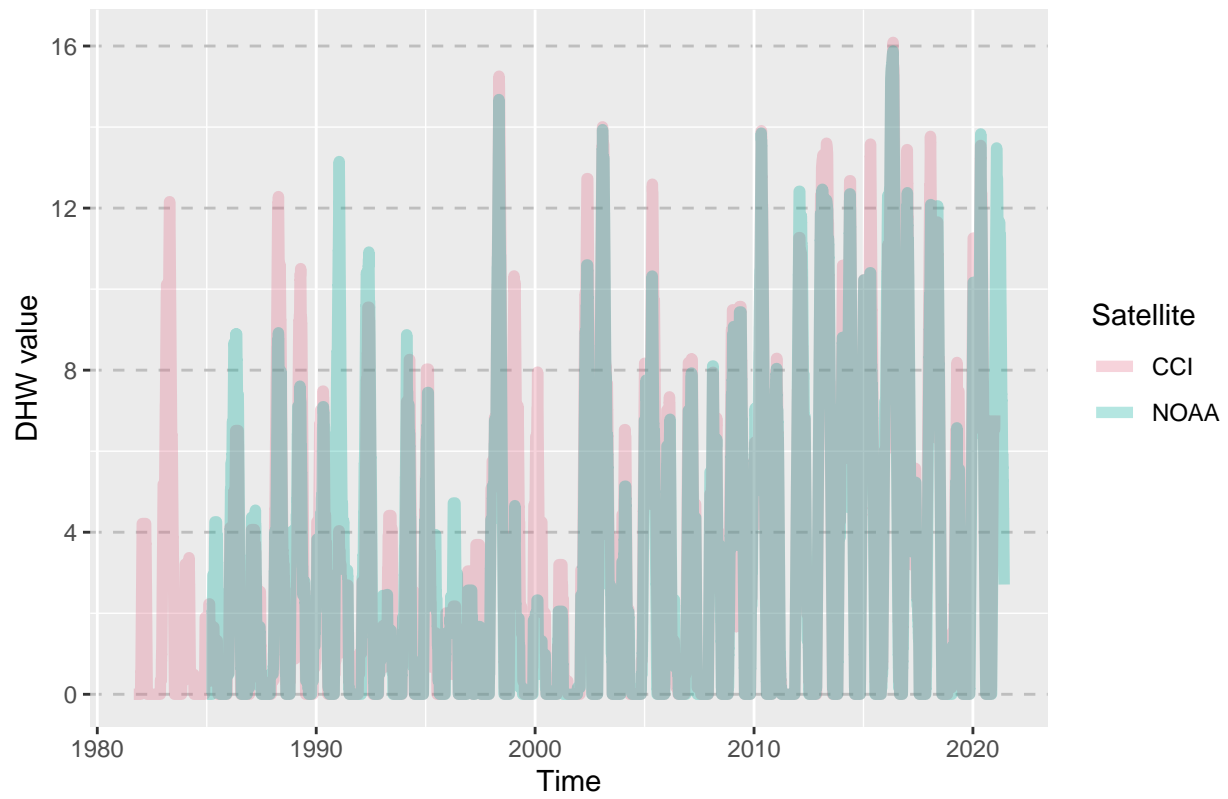
Time Series of DAR Long (-12.09, 96.88) Degree Heating Week values



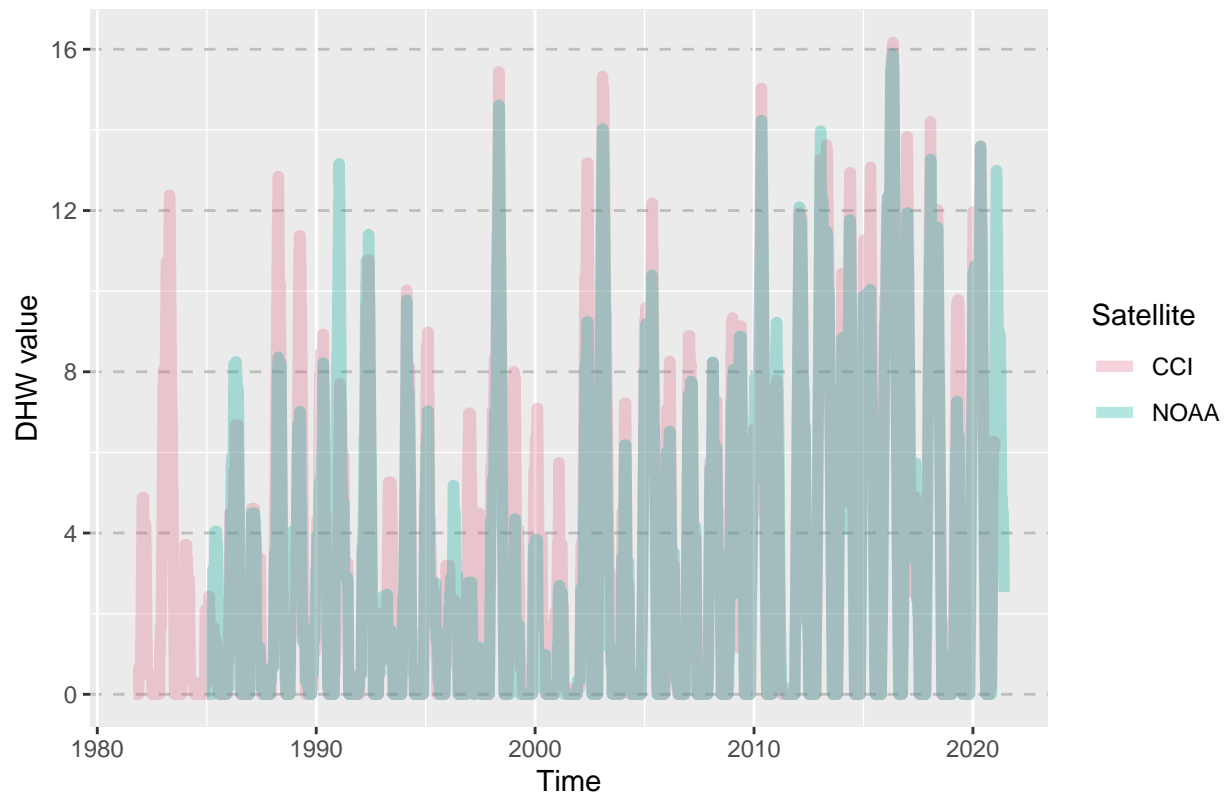
Time Series of SCOTT_RPO_1 (−14.06, 121.78) Degree Heating Week v



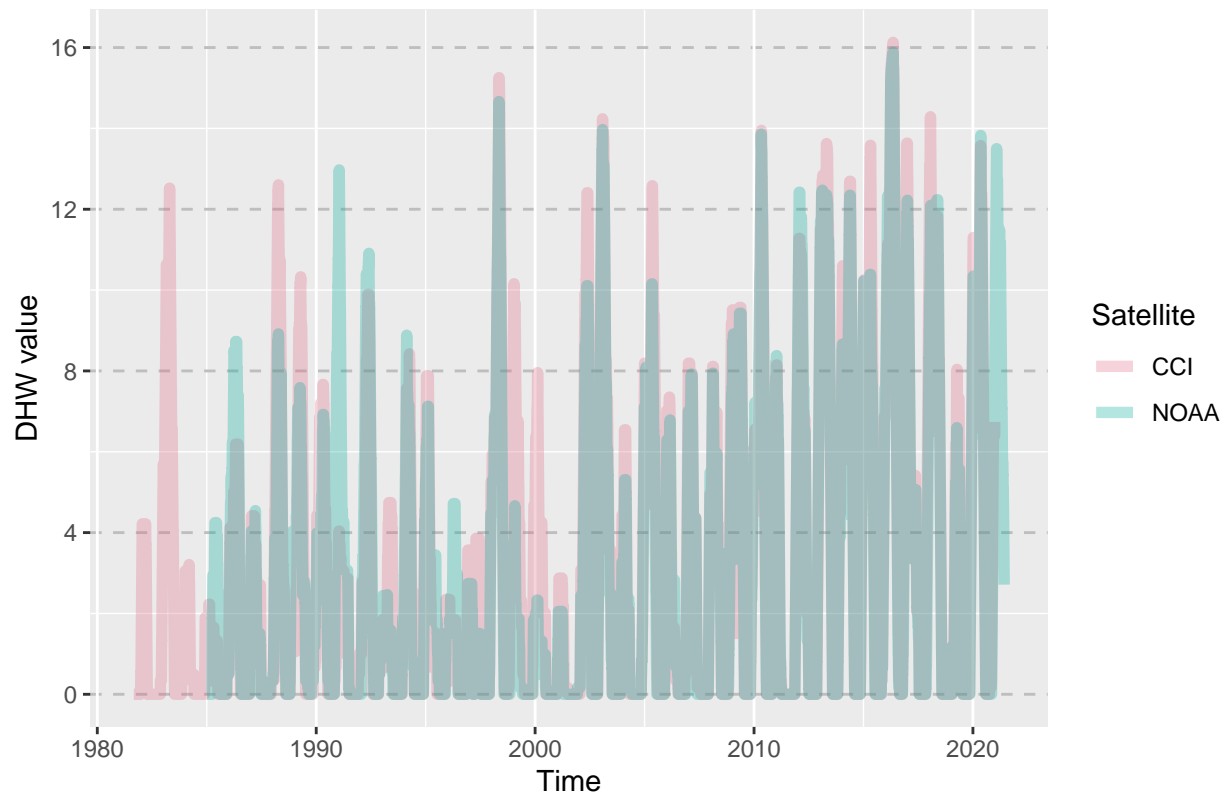
Time Series of SCOTT_SL4 (−14.02, 121.86) Degree Heating Week value



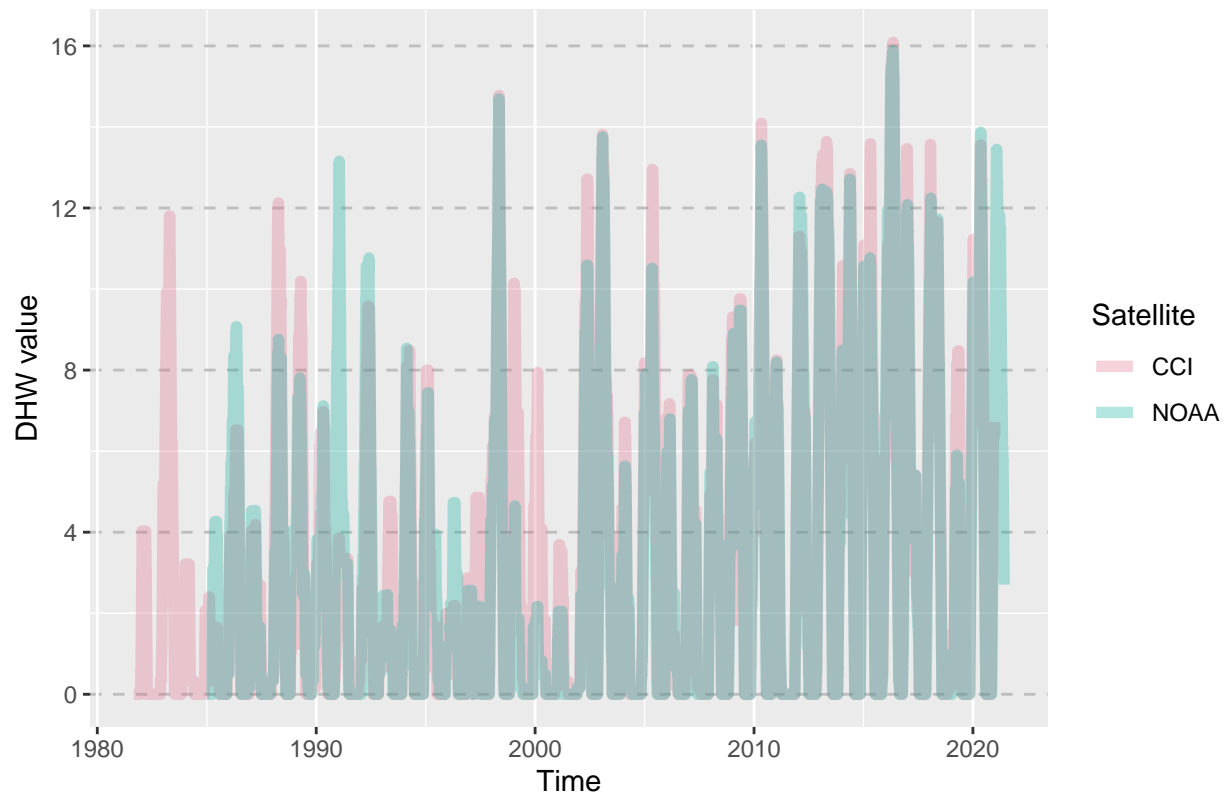
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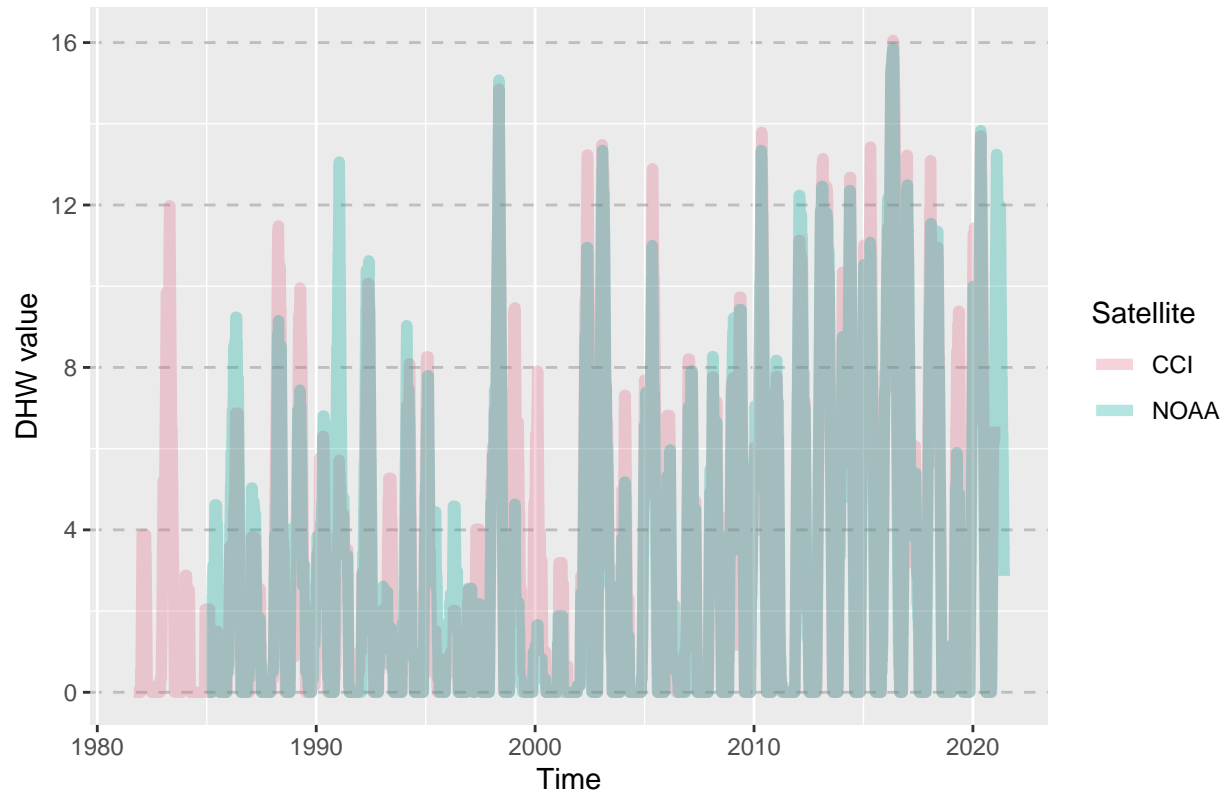
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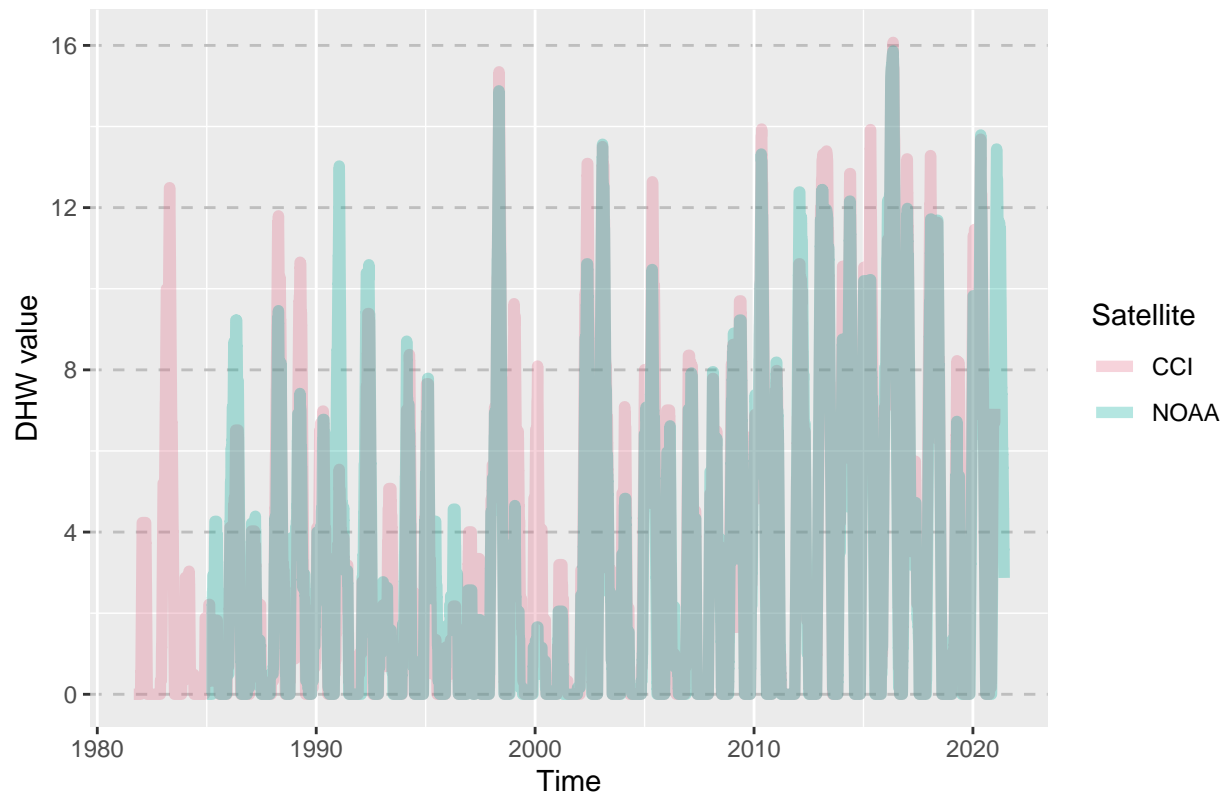
Time Series of SCOTTS1 (–14.08, 121.95) Degree Heating Week value:



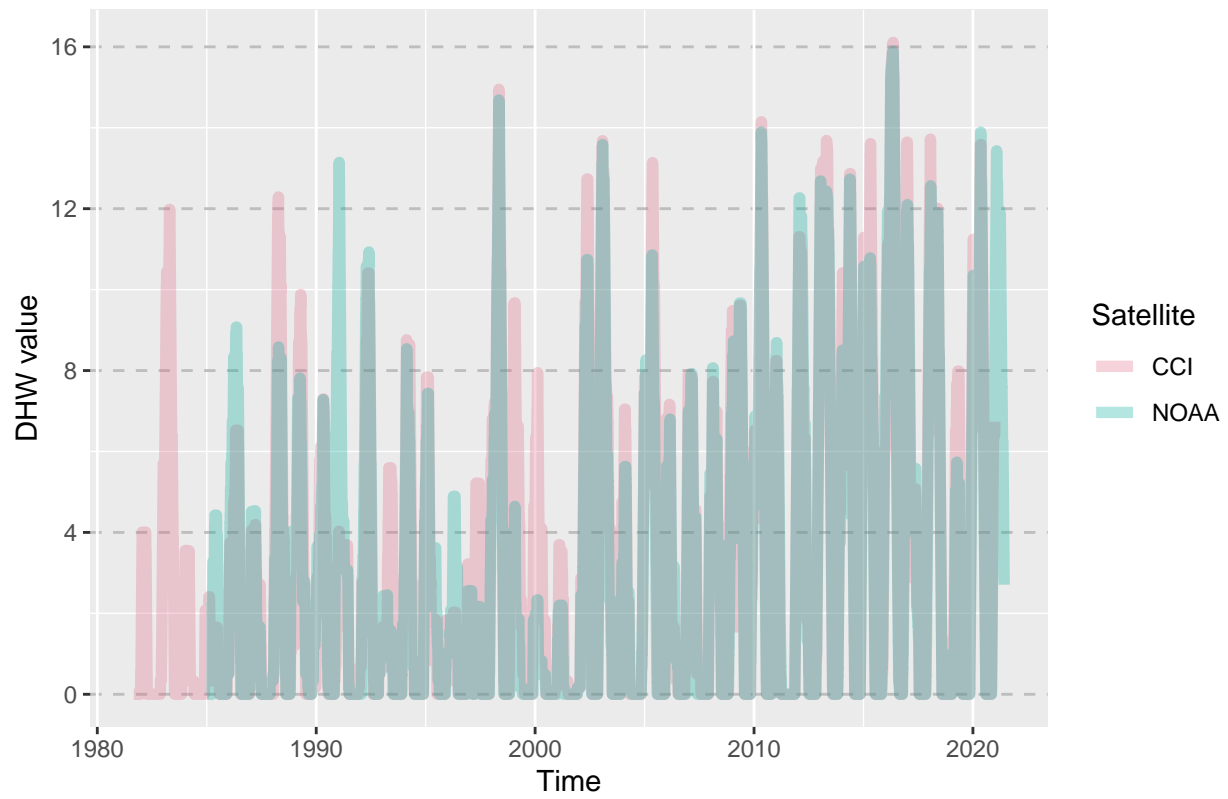
Time Series of SCOTTS2 (–14.19, 121.80) Degree Heating Week value:



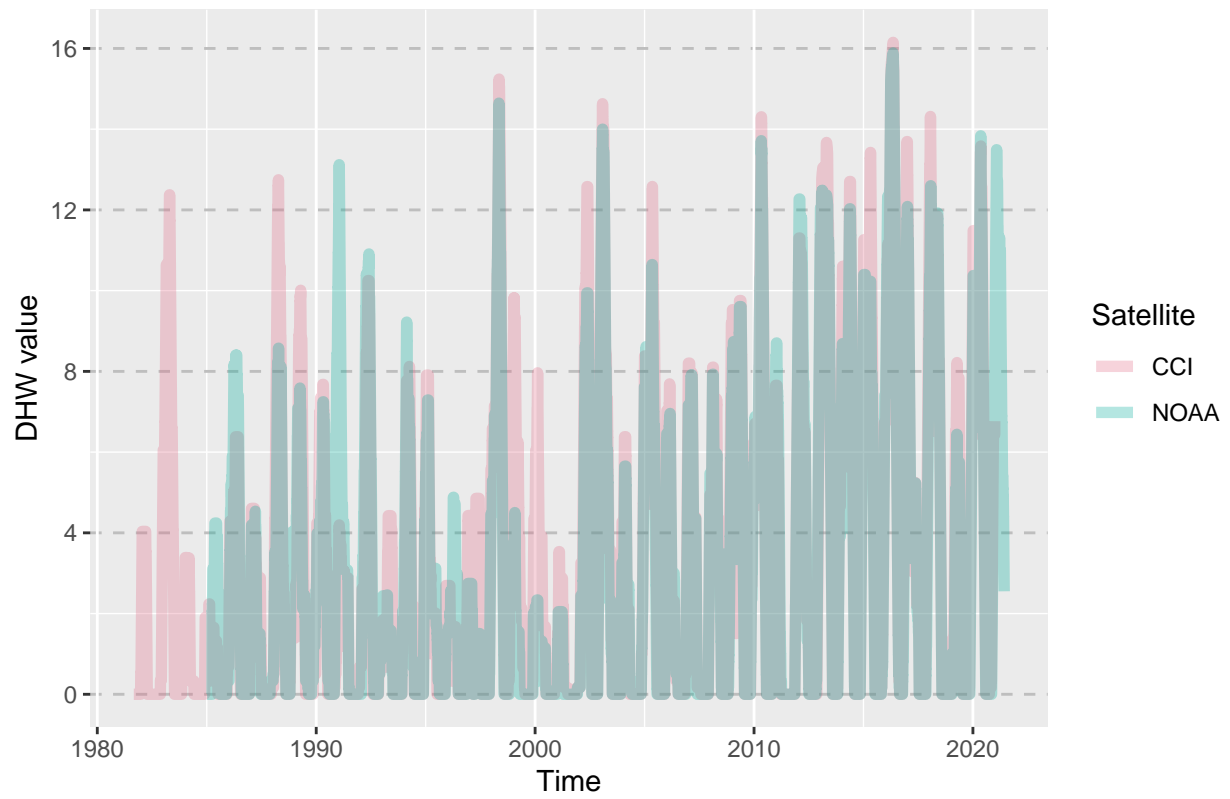
Time Series of SCOTTSL3 (–14.07, 121.78) Degree Heating Week value:



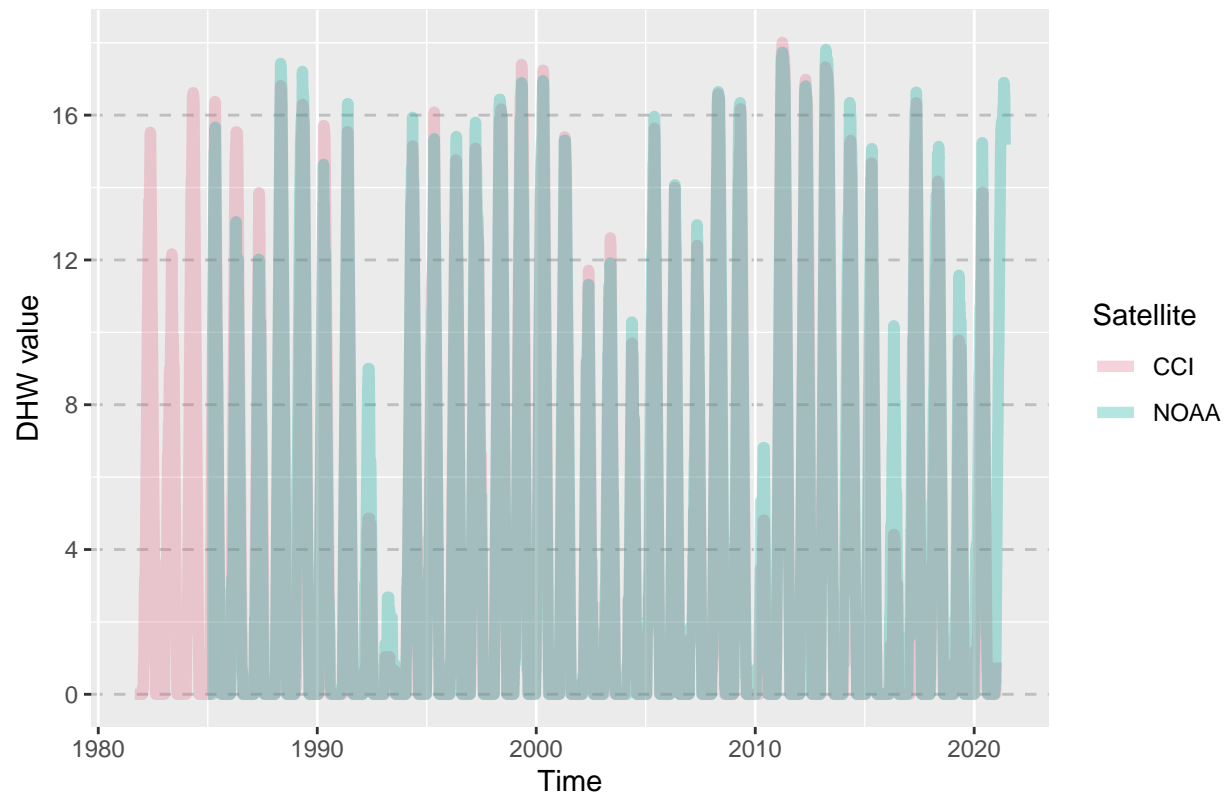
Time Series of SCOTTSS1 (–14.08, 121.98) Degree Heating Week value:



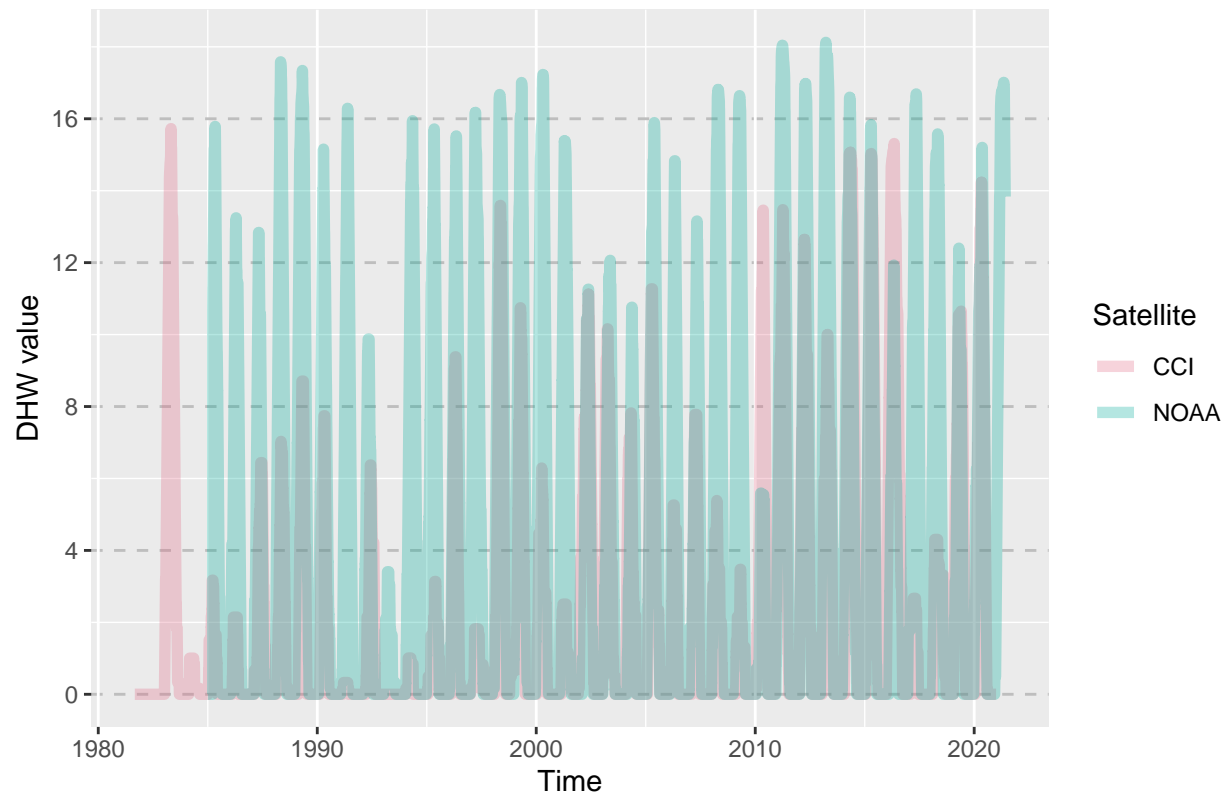
Time Series of SCOTTSS2 (–13.92, 121.92) Degree Heating Week value:



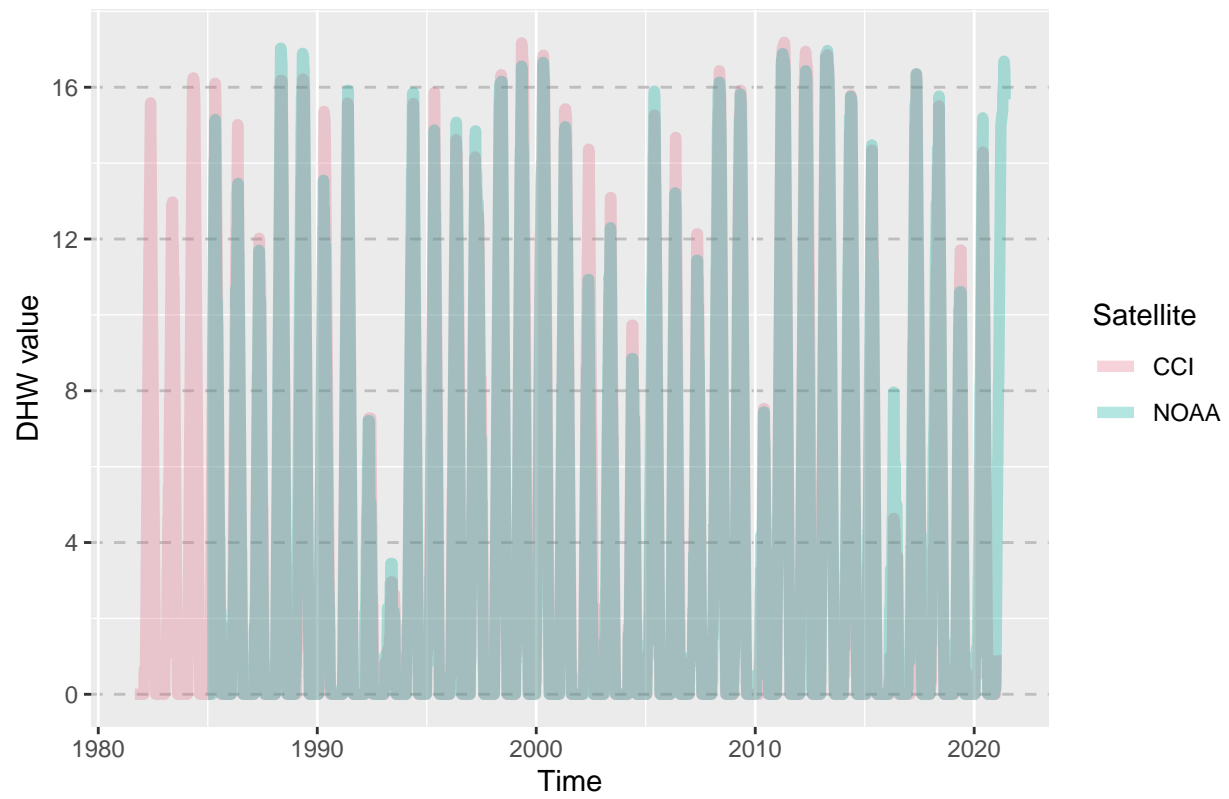
Time Series of BUN05A (−21.84, 114.18) Degree Heating Week values



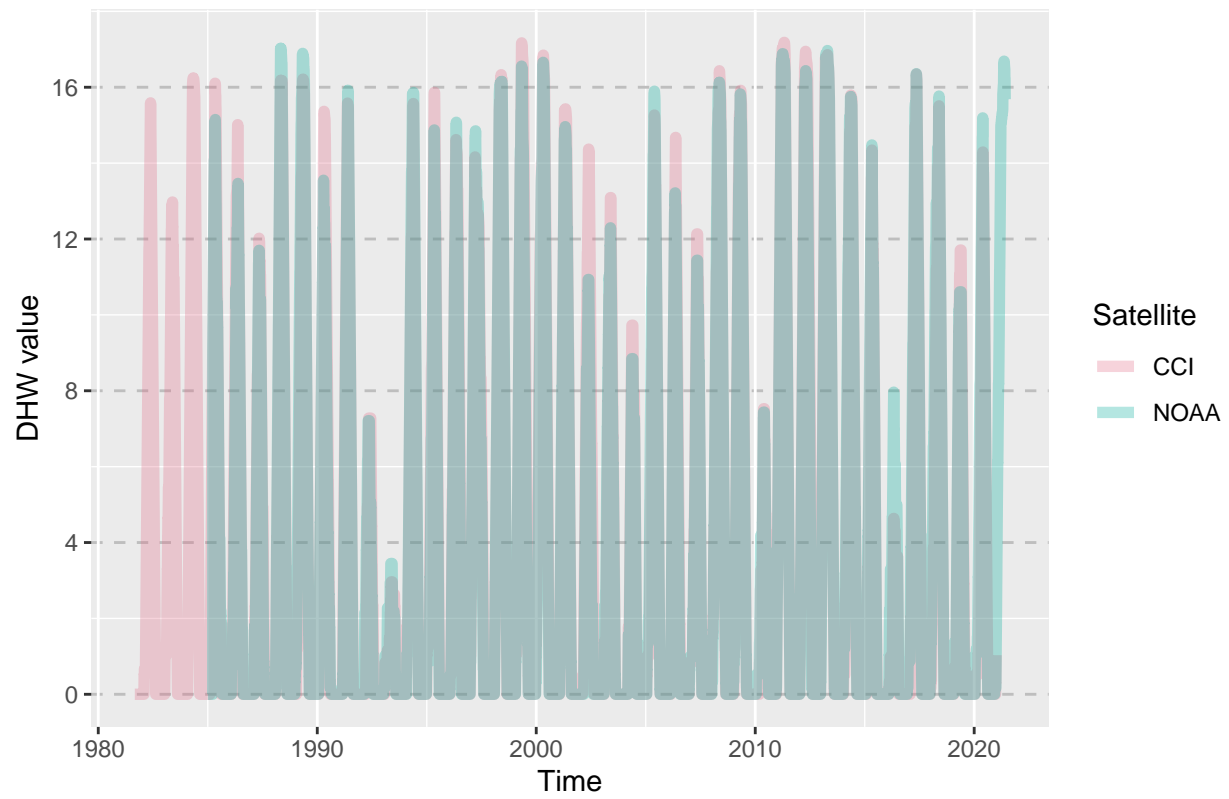
Time Series of 08BND and 13BND (–21.87, 114.16) Degree Heating Wee



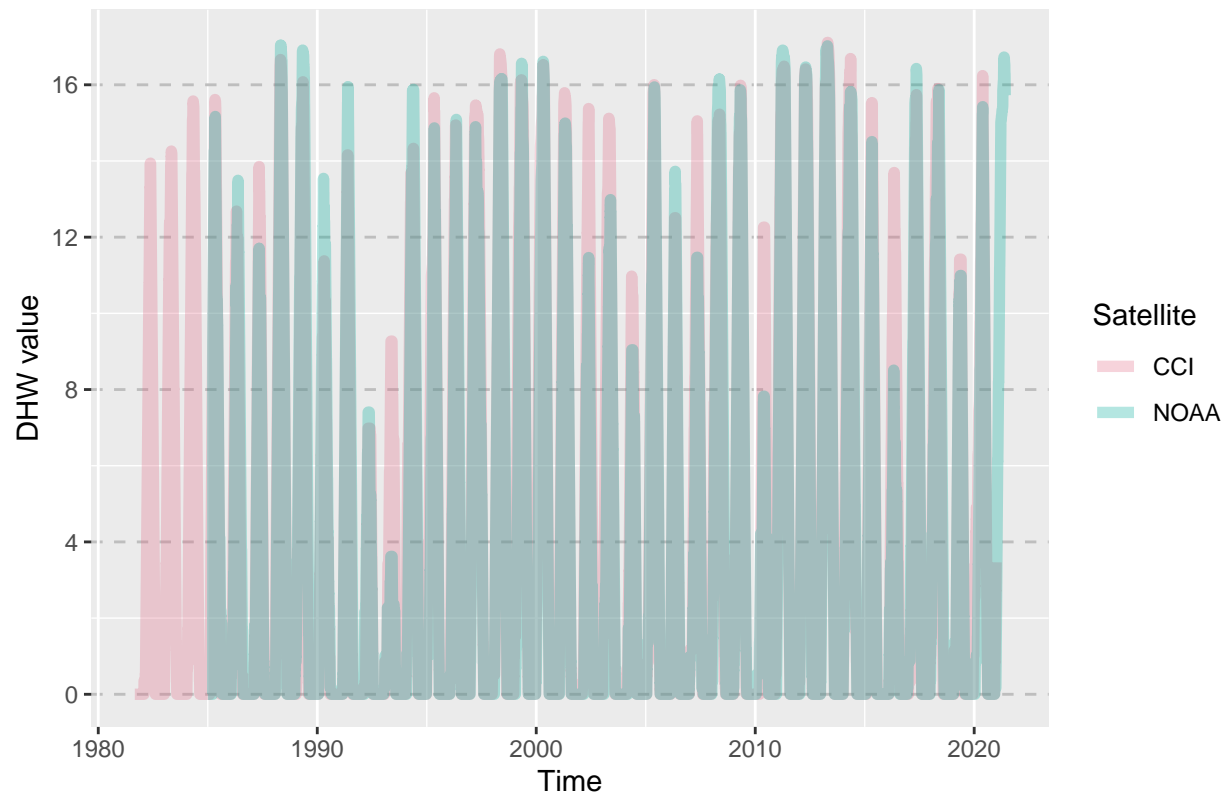
Time Series of 08TNT and 13TNT (–21.91, 113.97) Degree Heating Week



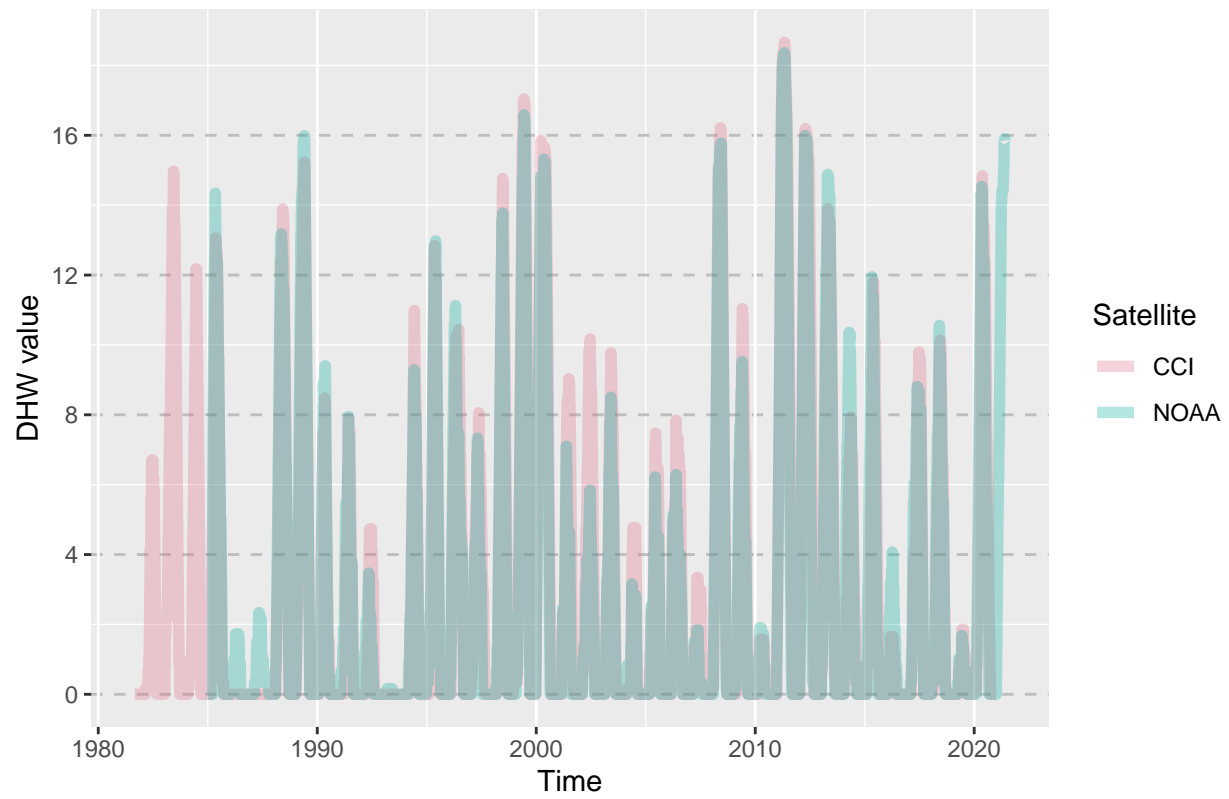
Time Series of TNT (-21.9, 113.97) Degree Heating Week values



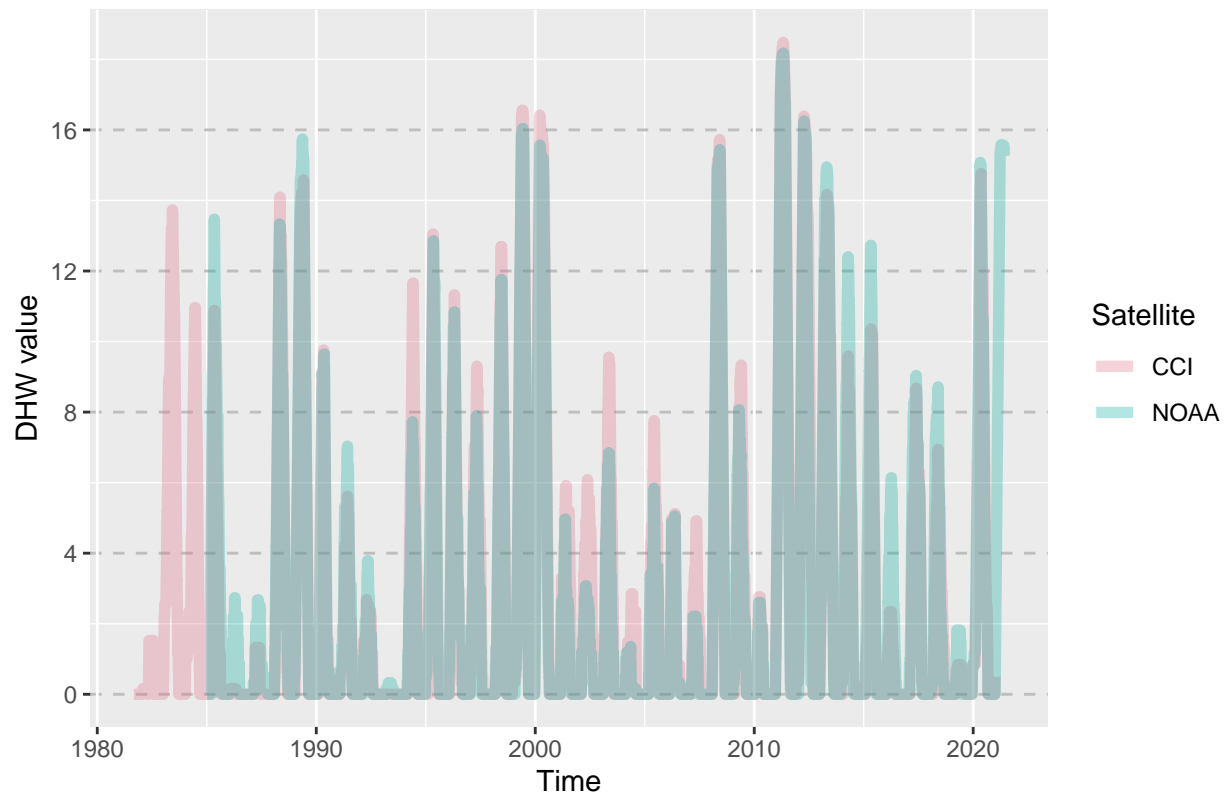
Time Series of TNT07C (–21.89, 113.96) Degree Heating Week values



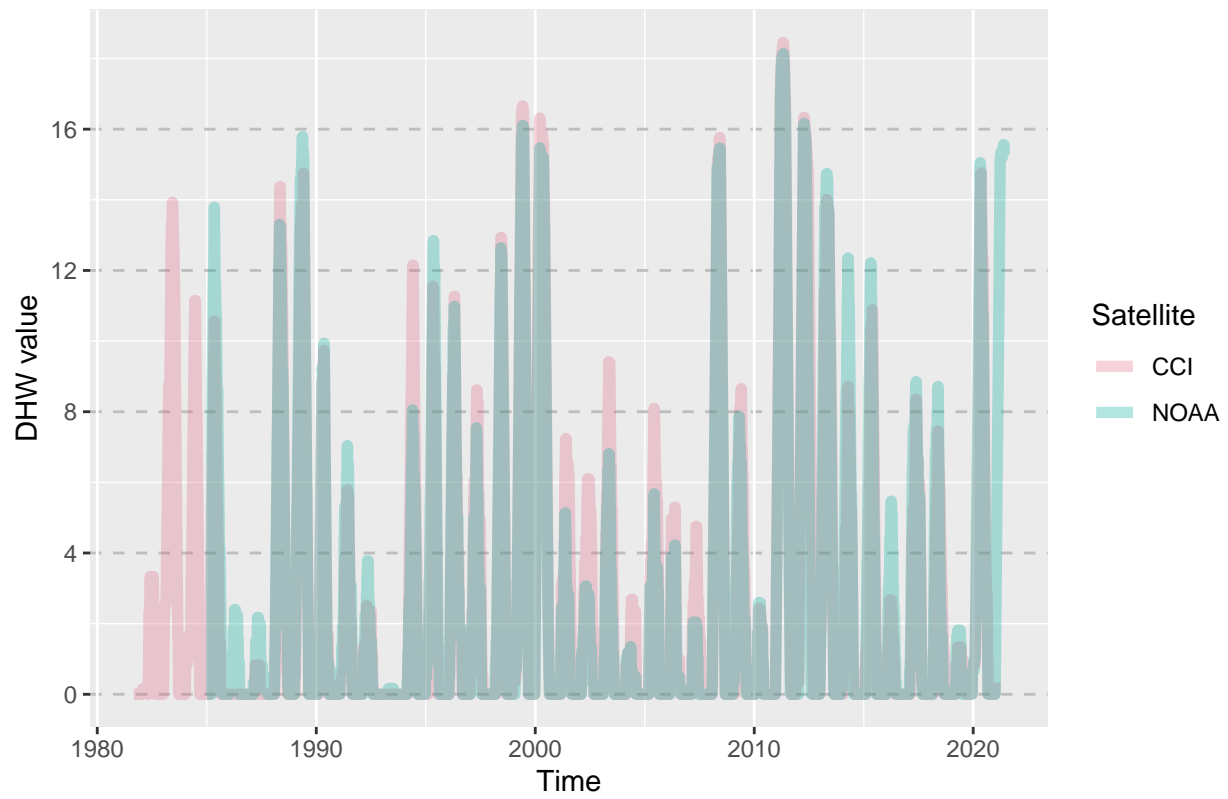
Time Series of Wallabi Island (–28.28, 113.46) Degree Heating Week val



Time Series of HAB05B (–28.46, 113.77) Degree Heating Week values



Time Series of HAB10A (–28.46, 113.75) Degree Heating Week values



BRS05 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

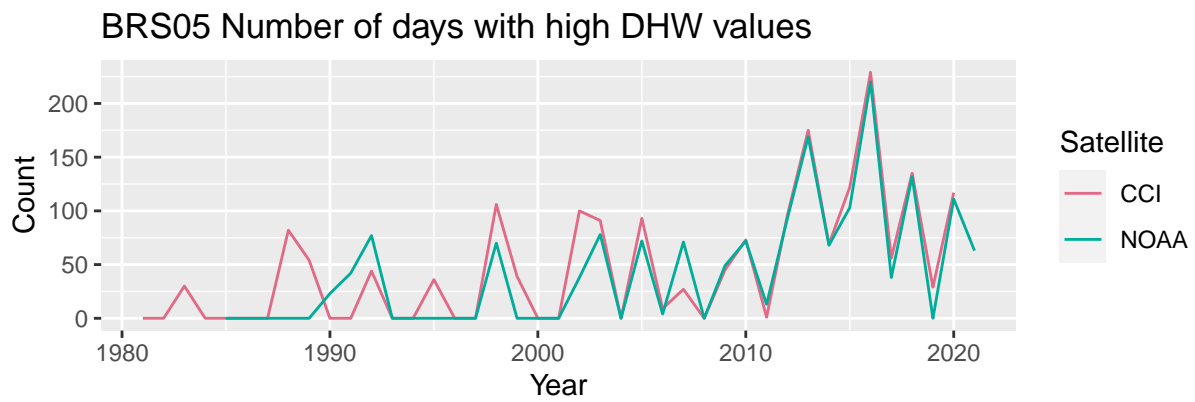
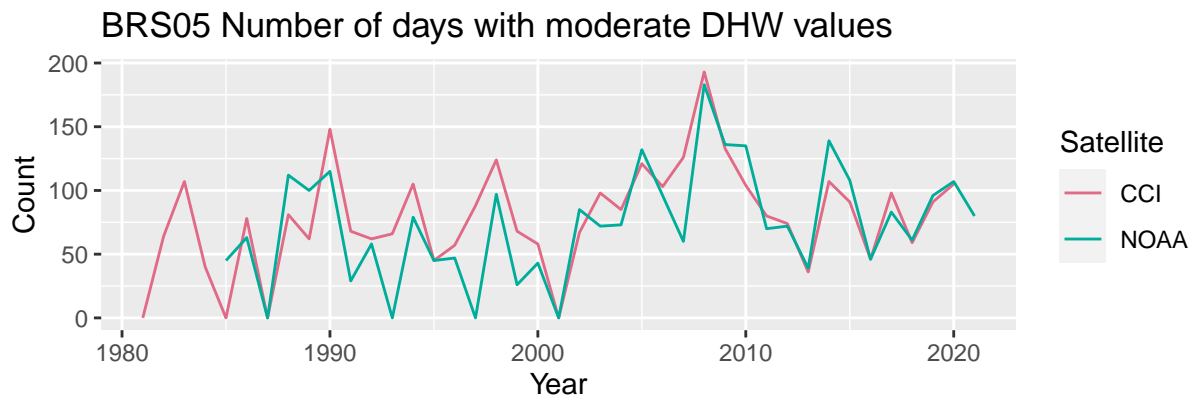


Table 1: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
2008	193	2008	183
1990	148	2014	139
2009	133	2009	136
2007	126	2010	135
1998	124	2005	132
2005	121	1990	115
1983	107	1988	112
2014	107	2015	108
1994	105	2020	107
2020	105	1989	100
2010	104	1998	97
2006	103	2006	96
2003	98	2019	96
2017	98	2002	85
2015	91	2017	83
2019	91	2021	80
1997	88	1994	79
2004	85	2004	73
1988	81	2003	72
2011	80	2012	72
1986	78	2011	70
2012	74	1986	63
1991	68	2018	61
1999	68	2007	60
2002	67	1992	58
1993	66	1996	47
1982	64	2016	46
1989	62	1985	45
1992	62	1995	45
2018	59	2000	43
2000	58	2013	39
1996	57	1991	29
2016	46	1999	26
1995	45	1987	0
1984	40	1993	0
2013	36	1997	0
1981	0	2001	0
1985	0	1981	NA
1987	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA

Table 2: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2016	229	2016	220
2013	175	2013	169
2018	135	2018	132
2015	122	2020	111
2020	117	2015	103
1998	106	2012	93
2002	100	2003	78
2012	96	1992	77
2005	93	2005	72
2003	91	2010	72
1988	82	2007	71
2010	73	1998	70
2014	69	2014	68
2017	56	2021	63
1989	54	2009	49
2009	45	1991	42
1992	44	2002	38
1999	39	2017	38
1995	36	1990	23
1983	30	2011	13
2019	29	2006	4
2007	27	1985	0
2006	9	1986	0
2011	1	1987	0
1981	0	1988	0
1982	0	1989	0
1984	0	1993	0
1985	0	1994	0
1986	0	1995	0
1987	0	1996	0
1990	0	1997	0
1991	0	1999	0
1993	0	2000	0
1994	0	2001	0
1996	0	2004	0
1997	0	2008	0
2000	0	2019	0
2001	0	1981	NA
2004	0	1982	NA
2008	0	1983	NA
2021	NA	1984	NA

BRS07 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

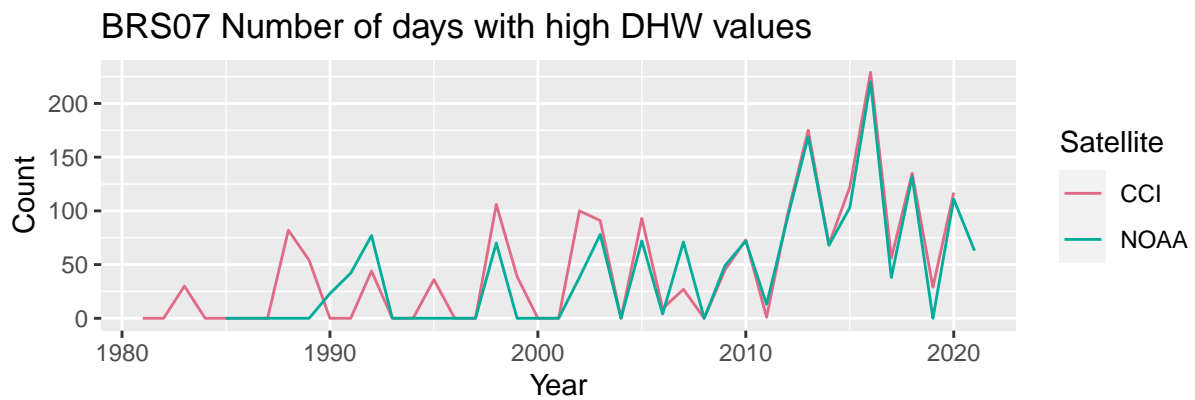
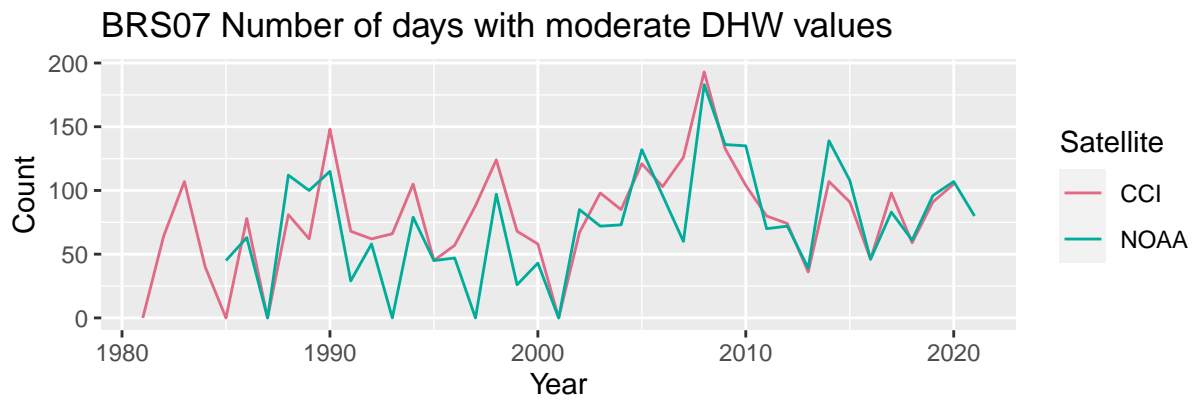


Table 3: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
2008	193	2008	183
1990	148	2014	139
2009	133	2009	136
2007	126	2010	135
1998	124	2005	132
2005	121	1990	115
1983	107	1988	112
2014	107	2015	108
1994	105	2020	107
2020	105	1989	100
2010	104	1998	97
2006	103	2006	96
2003	98	2019	96
2017	98	2002	85
2015	91	2017	83
2019	91	2021	80
1997	88	1994	79
2004	85	2004	73
1988	81	2003	72
2011	80	2012	72
1986	78	2011	70
2012	74	1986	63
1991	68	2018	61
1999	68	2007	60
2002	67	1992	58
1993	66	1996	47
1982	64	2016	46
1989	62	1985	45
1992	62	1995	45
2018	59	2000	43
2000	58	2013	39
1996	57	1991	29
2016	46	1999	26
1995	45	1987	0
1984	40	1993	0
2013	36	1997	0
1981	0	2001	0
1985	0	1981	NA
1987	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA

Table 4: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2016	229	2016	220
2013	175	2013	169
2018	135	2018	132
2015	122	2020	111
2020	117	2015	103
1998	106	2012	93
2002	100	2003	78
2012	96	1992	77
2005	93	2005	72
2003	91	2010	72
1988	82	2007	71
2010	73	1998	70
2014	69	2014	68
2017	56	2021	63
1989	54	2009	49
2009	45	1991	42
1992	44	2002	38
1999	39	2017	38
1995	36	1990	23
1983	30	2011	13
2019	29	2006	4
2007	27	1985	0
2006	9	1986	0
2011	1	1987	0
1981	0	1988	0
1982	0	1989	0
1984	0	1993	0
1985	0	1994	0
1986	0	1995	0
1987	0	1996	0
1990	0	1997	0
1991	0	1999	0
1993	0	2000	0
1994	0	2001	0
1996	0	2004	0
1997	0	2008	0
2000	0	2019	0
2001	0	1981	NA
2004	0	1982	NA
2008	0	1983	NA
2021	NA	1984	NA

DAR3 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

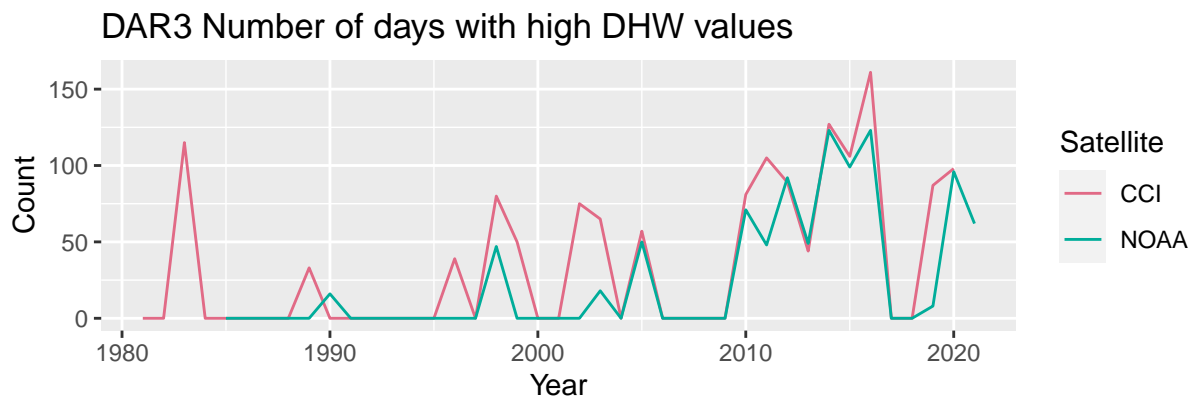
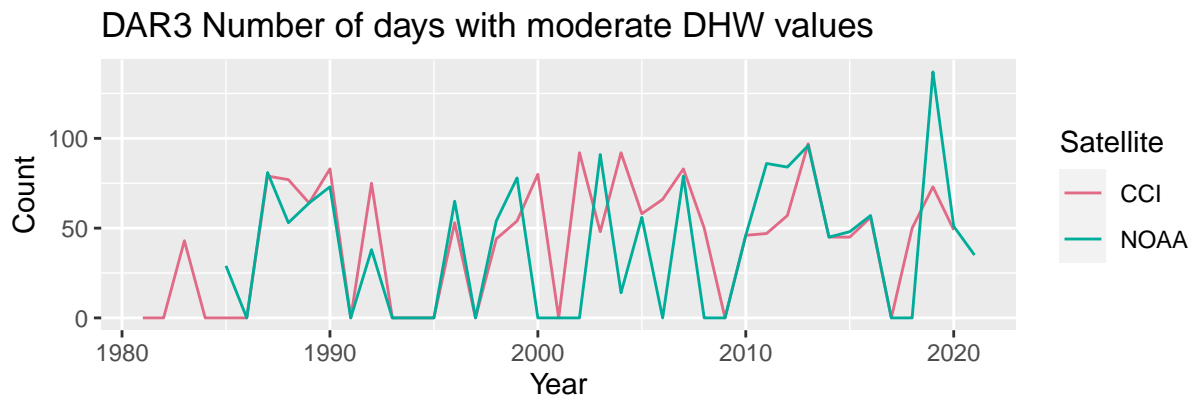


Table 5: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
2013	97	2019	137
2002	92	2013	96
2004	92	2003	91
1990	83	2011	86
2007	83	2012	84
2000	80	1987	81
1987	79	2007	79
1988	77	1999	78
1992	75	1990	73
2019	73	1996	65
2006	66	1989	64
1989	64	2016	57
2005	58	2005	56
2012	57	1998	54
2016	56	1988	53
1999	54	2020	51
1996	53	2015	48
2008	50	2010	46
2018	50	2014	45
2020	49	1992	38
2003	48	2021	35
2011	47	1985	29
2010	46	2004	14
2014	45	1986	0
2015	45	1991	0
1998	44	1993	0
1983	43	1994	0
1981	0	1995	0
1982	0	1997	0
1984	0	2000	0
1985	0	2001	0
1986	0	2002	0
1991	0	2006	0
1993	0	2008	0
1994	0	2009	0
1995	0	2017	0
1997	0	2018	0
2001	0	1981	NA
2009	0	1982	NA
2017	0	1983	NA
2021	NA	1984	NA

Table 6: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2016	161	2014	123
2014	127	2016	123
1983	115	2015	99
2015	106	2020	96
2011	105	2012	92
2020	98	2010	71
2012	89	2021	62
2019	87	2005	50
2010	81	2013	49
1998	80	2011	48
2002	75	1998	47
2003	65	2003	18
2005	57	1990	16
1999	50	2019	8
2013	44	1985	0
1996	39	1986	0
1989	33	1987	0
1981	0	1988	0
1982	0	1989	0
1984	0	1991	0
1985	0	1992	0
1986	0	1993	0
1987	0	1994	0
1988	0	1995	0
1990	0	1996	0
1991	0	1997	0
1992	0	1999	0
1993	0	2000	0
1994	0	2001	0
1995	0	2002	0
1997	0	2004	0
2000	0	2006	0
2001	0	2007	0
2004	0	2008	0
2006	0	2009	0
2007	0	2017	0
2008	0	2018	0
2009	0	1981	NA
2017	0	1982	NA
2018	0	1983	NA
2021	NA	1984	NA

DAR Long Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

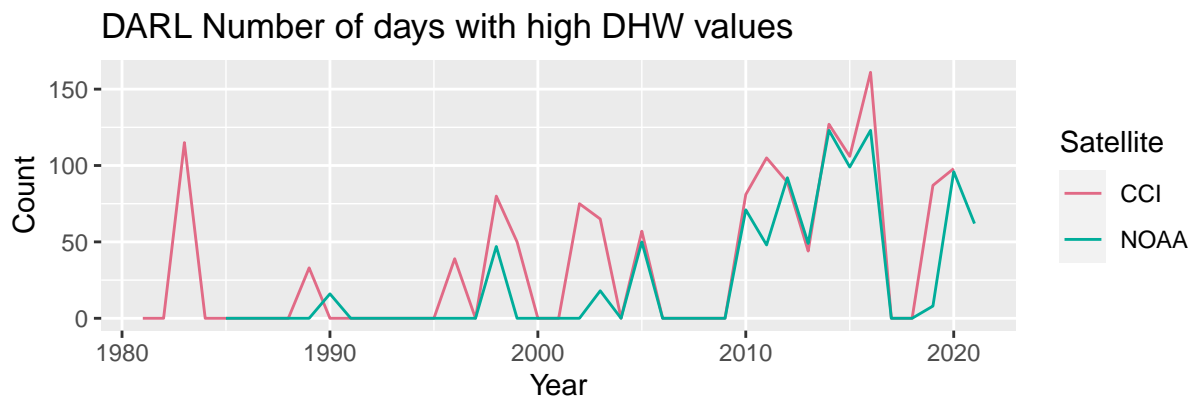
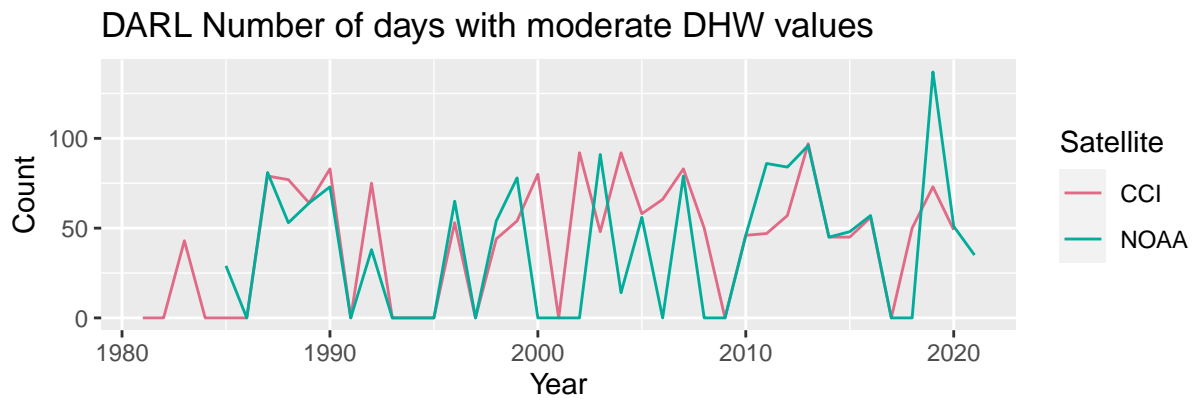


Table 7: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
2013	97	2019	137
2002	92	2013	96
2004	92	2003	91
1990	83	2011	86
2007	83	2012	84
2000	80	1987	81
1987	79	2007	79
1988	77	1999	78
1992	75	1990	73
2019	73	1996	65
2006	66	1989	64
1989	64	2016	57
2005	58	2005	56
2012	57	1998	54
2016	56	1988	53
1999	54	2020	51
1996	53	2015	48
2008	50	2010	46
2018	50	2014	45
2020	49	1992	38
2003	48	2021	35
2011	47	1985	29
2010	46	2004	14
2014	45	1986	0
2015	45	1991	0
1998	44	1993	0
1983	43	1994	0
1981	0	1995	0
1982	0	1997	0
1984	0	2000	0
1985	0	2001	0
1986	0	2002	0
1991	0	2006	0
1993	0	2008	0
1994	0	2009	0
1995	0	2017	0
1997	0	2018	0
2001	0	1981	NA
2009	0	1982	NA
2017	0	1983	NA
2021	NA	1984	NA

Table 8: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2016	161	2014	123
2014	127	2016	123
1983	115	2015	99
2015	106	2020	96
2011	105	2012	92
2020	98	2010	71
2012	89	2021	62
2019	87	2005	50
2010	81	2013	49
1998	80	2011	48
2002	75	1998	47
2003	65	2003	18
2005	57	1990	16
1999	50	2019	8
2013	44	1985	0
1996	39	1986	0
1989	33	1987	0
1981	0	1988	0
1982	0	1989	0
1984	0	1991	0
1985	0	1992	0
1986	0	1993	0
1987	0	1994	0
1988	0	1995	0
1990	0	1996	0
1991	0	1997	0
1992	0	1999	0
1993	0	2000	0
1994	0	2001	0
1995	0	2002	0
1997	0	2004	0
2000	0	2006	0
2001	0	2007	0
2004	0	2008	0
2006	0	2009	0
2007	0	2017	0
2008	0	2018	0
2009	0	1981	NA
2017	0	1982	NA
2018	0	1983	NA
2021	NA	1984	NA

SCOTT_RPO_1 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

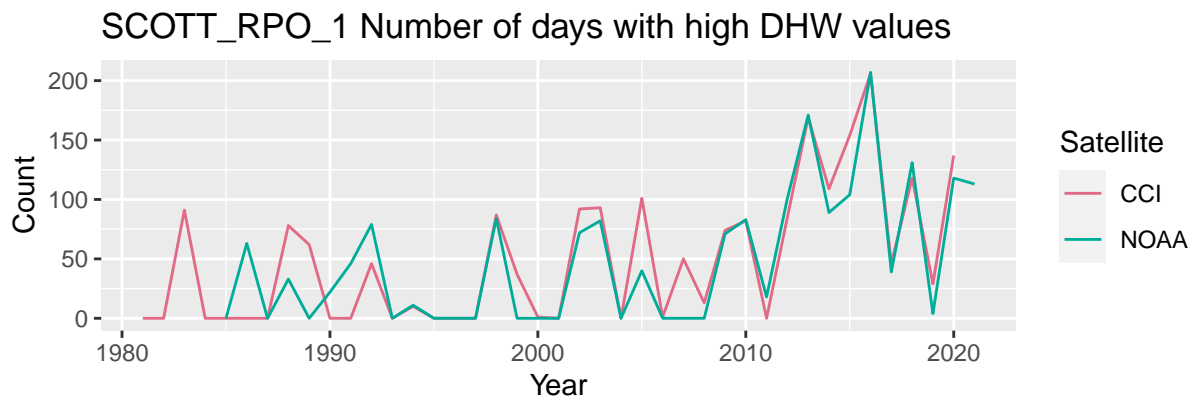
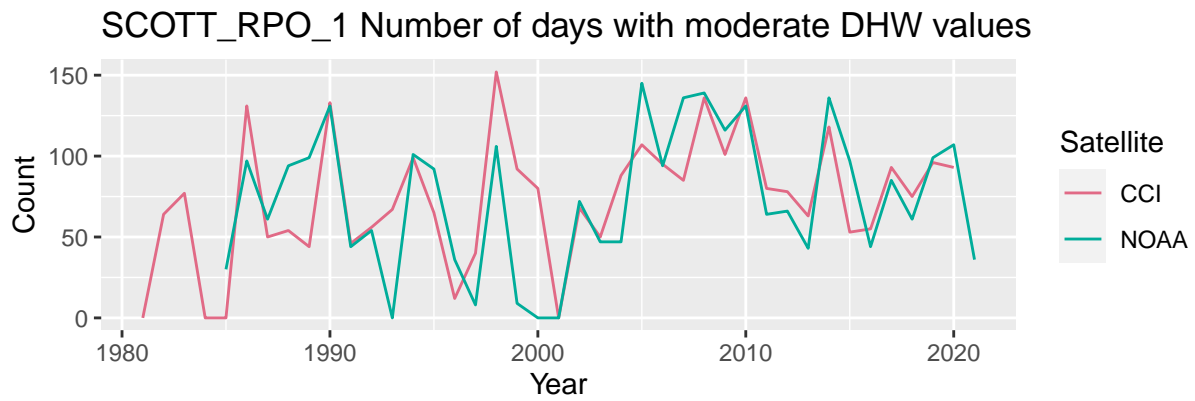


Table 9: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
1998	152	2005	145
2008	136	2008	139
2010	136	2007	136
1990	133	2014	136
1986	131	1990	131
2014	118	2010	131
2005	107	2009	116
2009	101	2020	107
1994	99	1998	106
2019	96	1994	101
2006	95	1989	99
2017	93	2019	99
2020	93	1986	97
1999	92	2015	97
2004	88	1988	94
2007	85	2006	94
2000	80	1995	92
2011	80	2017	85
2012	78	2002	72
1983	77	2012	66
2018	75	2011	64
2002	68	1987	61
1993	67	2018	61
1995	65	1992	54
1982	64	2003	47
2013	63	2004	47
1992	56	1991	44
2016	55	2016	44
1988	54	2013	43
2015	53	1996	36
1987	50	2021	36
2003	50	1985	30
1991	46	1999	9
1989	44	1997	8
1997	40	1993	0
1996	12	2000	0
1981	0	2001	0
1984	0	1981	NA
1985	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA

Table 10: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2016	206	2016	207
2013	169	2013	171
2015	154	2018	131
2020	137	2020	118
2018	118	2021	113
2014	109	2015	104
2005	101	2012	101
2003	93	2014	89
2002	92	1998	84
1983	91	2010	83
1998	87	2003	82
2012	85	1992	79
2010	82	2002	72
1988	78	2009	71
2009	74	1986	63
1989	62	1991	46
2007	50	2005	40
1992	46	2017	39
2017	46	1988	33
1999	37	1990	22
2019	29	2011	18
2008	13	1994	11
1994	10	2019	4
2000	1	1985	0
2006	1	1987	0
1981	0	1989	0
1982	0	1993	0
1984	0	1995	0
1985	0	1996	0
1986	0	1997	0
1987	0	1999	0
1990	0	2000	0
1991	0	2001	0
1993	0	2004	0
1995	0	2006	0
1996	0	2007	0
1997	0	2008	0
2001	0	1981	NA
2004	0	1982	NA
2011	0	1983	NA
2021	NA	1984	NA

SCOTT_SL4 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

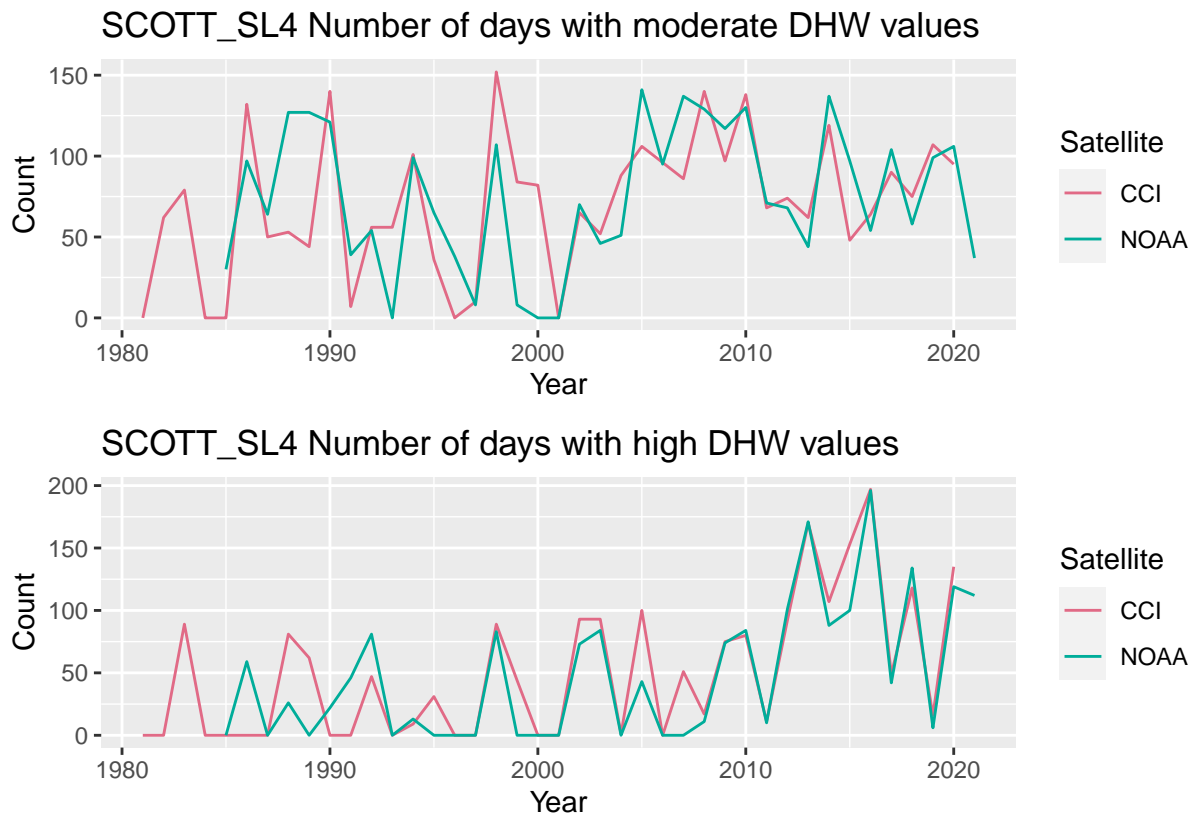


Table 11: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
1998	152	2005	141
1990	140	2007	137
2008	140	2014	137
2010	138	2010	130
1986	132	2008	129
2014	119	1988	127
2019	107	1989	127
2005	106	1990	121
1994	101	2009	117
2009	97	1998	107
2006	96	2020	106
2020	95	2017	104
2017	90	1994	99
2004	88	2019	99
2007	86	1986	97
1999	84	2015	97
2000	82	2006	95
1983	79	2011	71
2018	75	2002	70
2012	74	2012	68
2011	68	1995	65
2002	65	1987	64
2016	64	2018	58
1982	62	1992	54
2013	62	2016	54
1992	56	2004	51
1993	56	2003	46
1988	53	2013	44
2003	52	1991	39
1987	50	1996	38
2015	48	2021	37
1989	44	1985	30
1995	36	1997	8
1997	10	1999	8
1991	7	1993	0
1981	0	2000	0
1984	0	2001	0
1985	0	1981	NA
1996	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA

Table 12: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2016	197	2016	196
2013	170	2013	171
2015	153	2018	134
2020	135	2020	119
2018	118	2021	112
2014	107	2012	101
2005	100	2015	100
2002	93	2014	88
2003	93	2003	84
2012	92	2010	84
1983	89	1998	83
1998	89	1992	81
1988	81	2009	74
2010	80	2002	73
2009	75	1986	59
1989	62	1991	46
2007	51	2005	43
2017	49	2017	42
1992	47	1988	26
1999	44	1990	22
1995	31	1994	13
2008	17	2008	11
2019	16	2011	10
2011	11	2019	6
1994	9	1985	0
2004	1	1987	0
1981	0	1989	0
1982	0	1993	0
1984	0	1995	0
1985	0	1996	0
1986	0	1997	0
1987	0	1999	0
1990	0	2000	0
1991	0	2001	0
1993	0	2004	0
1996	0	2006	0
1997	0	2007	0
2000	0	1981	NA
2001	0	1982	NA
2006	0	1983	NA
2021	NA	1984	NA

SCOTT_SS3 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

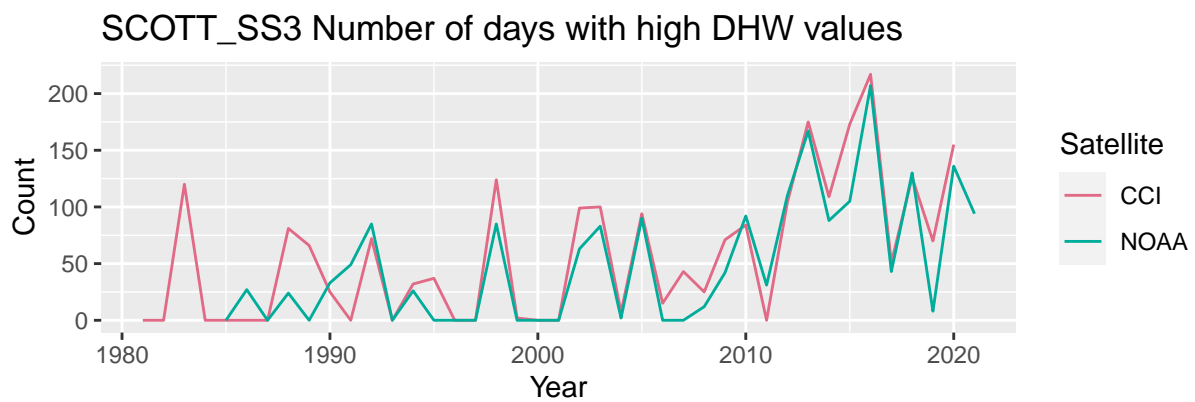
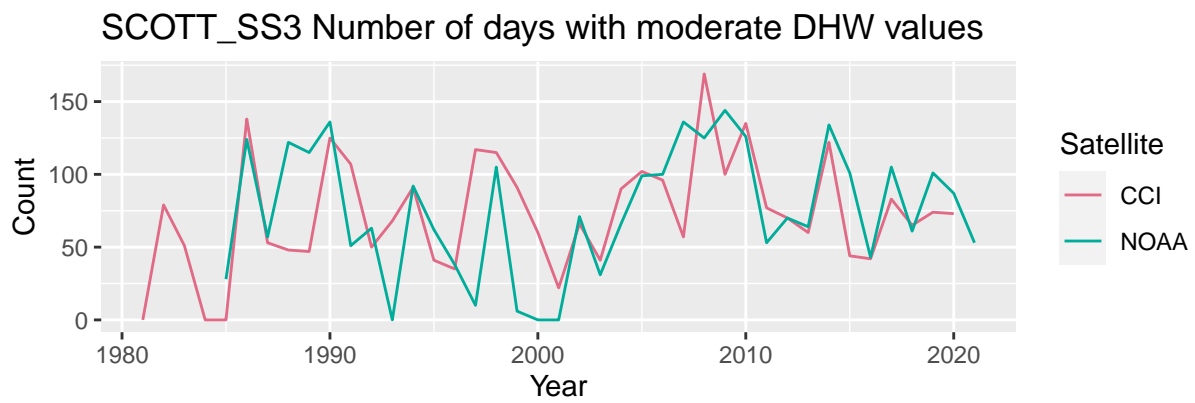


Table 13: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
2008	169	2009	144
1986	138	1990	136
2010	135	2007	136
1990	125	2014	134
2014	122	2010	126
1997	117	2008	125
1998	115	1986	124
1991	107	1988	122
2005	102	1989	115
2009	100	1998	105
2006	96	2017	105
1994	91	2015	101
1999	91	2019	101
2004	90	2006	100
2017	83	2005	99
1982	79	1994	92
2011	77	2020	87
2019	74	2002	71
2020	73	2012	70
2012	70	2004	66
1993	68	2013	64
2002	66	1992	63
2018	65	1995	62
2000	60	2018	61
2013	60	1987	57
2007	57	2011	53
1987	53	2021	53
1983	51	1991	51
1992	50	2016	43
1988	48	1996	38
1989	47	2003	31
2015	44	1985	28
2016	42	1997	10
1995	41	1999	6
2003	41	1993	0
1996	35	2000	0
2001	22	2001	0
1981	0	1981	NA
1984	0	1982	NA
1985	0	1983	NA
2021	NA	1984	NA

Table 14: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2016	217	2016	207
2013	175	2013	167
2015	173	2020	136
2020	155	2018	130
2018	126	2012	110
1998	124	2015	105
1983	120	2021	94
2014	109	2010	92
2012	104	2005	90
2003	100	2014	88
2002	99	1992	85
2005	94	1998	85
2010	84	2003	83
1988	81	2002	63
1992	72	1991	49
2009	71	2017	43
2019	70	2009	42
1989	66	1990	33
2017	51	2011	31
2007	43	1986	27
1995	37	1994	26
1994	32	1988	24
1990	25	2008	12
2008	25	2019	8
2006	15	2004	2
2004	7	1985	0
1999	2	1987	0
1981	0	1989	0
1982	0	1993	0
1984	0	1995	0
1985	0	1996	0
1986	0	1997	0
1987	0	1999	0
1991	0	2000	0
1993	0	2001	0
1996	0	2006	0
1997	0	2007	0
2000	0	1981	NA
2001	0	1982	NA
2011	0	1983	NA
2021	NA	1984	NA

SCOTTNR1 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

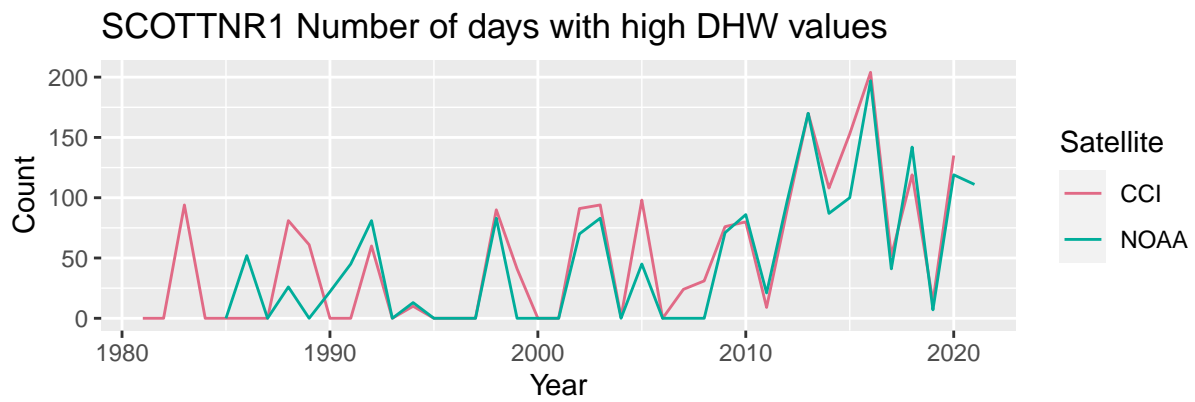
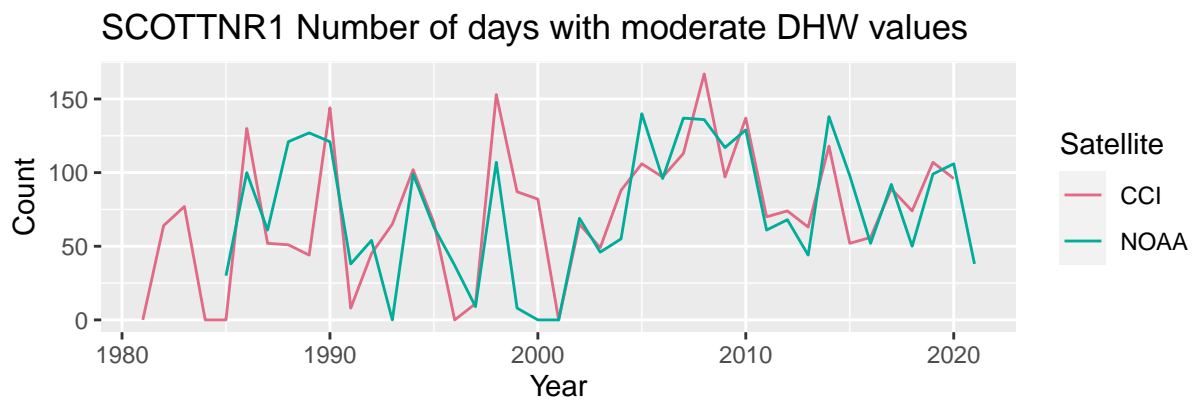


Table 15: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
2008	167	2005	140
1998	153	2014	138
1990	144	2007	137
2010	137	2008	136
1986	130	2010	129
2014	118	1989	127
2007	113	1988	121
2019	107	1990	121
2005	106	2009	117
1994	102	1998	107
2006	97	2020	106
2009	97	1986	100
2020	96	1994	99
2017	89	2019	99
2004	88	2015	98
1999	87	2006	96
2000	82	2017	92
1983	77	2002	69
2012	74	2012	68
2018	74	1995	63
2011	70	1987	61
1995	66	2011	61
1993	65	2004	55
2002	65	1992	54
1982	64	2016	52
2013	63	2018	50
2016	56	2003	46
1987	52	2013	44
2015	52	1991	38
1988	51	2021	38
2003	49	1996	37
1992	45	1985	30
1989	44	1997	9
1997	11	1999	8
1991	8	1993	0
1981	0	2000	0
1984	0	2001	0
1985	0	1981	NA
1996	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA

Table 16: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2016	204	2016	197
2013	170	2013	170
2015	153	2018	142
2020	135	2020	119
2018	119	2021	111
2014	108	2015	100
2005	98	2012	98
1983	94	2014	87
2003	94	2010	86
2002	91	1998	83
2012	91	2003	83
1998	90	1992	81
1988	81	2009	71
2010	80	2002	70
2009	76	1986	52
1989	61	1991	45
1992	60	2005	45
2017	52	2017	41
1999	41	1988	26
2008	31	1990	22
2007	24	2011	21
2019	14	1994	13
1994	10	2019	7
2011	9	1985	0
2004	1	1987	0
1981	0	1989	0
1982	0	1993	0
1984	0	1995	0
1985	0	1996	0
1986	0	1997	0
1987	0	1999	0
1990	0	2000	0
1991	0	2001	0
1993	0	2004	0
1995	0	2006	0
1996	0	2007	0
1997	0	2008	0
2000	0	1981	NA
2001	0	1982	NA
2006	0	1983	NA
2021	NA	1984	NA

SCOTTSL1 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

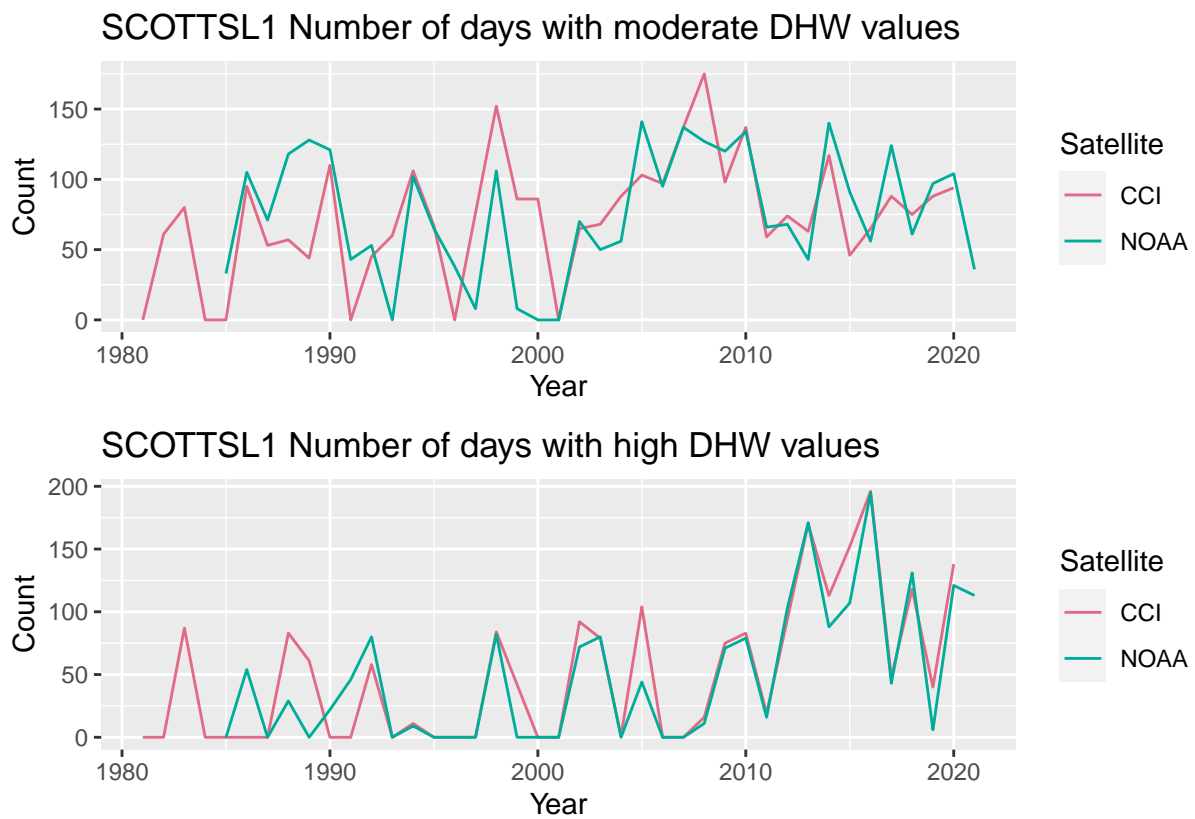


Table 17: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
2008	175	2005	141
1998	152	2014	140
2007	137	2007	137
2010	137	2010	134
2014	117	1989	128
1990	110	2008	127
1994	106	2017	124
2005	103	1990	121
2009	98	2009	120
2006	97	1988	118
1986	95	1998	106
2020	94	1986	105
2004	88	2020	104
2017	88	1994	102
2019	88	2019	97
1999	86	2006	95
2000	86	2015	91
1983	80	1987	71
1997	76	2002	70
2018	75	2012	68
2012	74	2011	66
2003	68	1995	65
1995	67	2018	61
2002	65	2004	56
2016	65	2016	56
2013	63	1992	53
1982	61	2003	50
1993	60	1991	43
2011	59	2013	43
1988	57	1996	38
1987	53	2021	36
2015	46	1985	33
1992	45	1997	8
1989	44	1999	8
1981	0	1993	0
1984	0	2000	0
1985	0	2001	0
1991	0	1981	NA
1996	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA

Table 18: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2016	196	2016	195
2013	170	2013	171
2015	152	2018	131
2020	138	2020	121
2018	118	2021	113
2014	113	2015	107
2005	104	2012	103
2012	94	2014	88
2002	92	1998	82
1983	87	1992	80
1998	84	2003	80
1988	83	2010	79
2010	83	2002	72
2003	79	2009	71
2009	75	1986	54
1989	61	1991	46
1992	58	2005	44
2017	48	2017	43
1999	42	1988	29
2019	40	1990	22
2011	19	2011	16
2008	16	2008	11
1994	11	1994	9
2004	1	2019	6
1981	0	1985	0
1982	0	1987	0
1984	0	1989	0
1985	0	1993	0
1986	0	1995	0
1987	0	1996	0
1990	0	1997	0
1991	0	1999	0
1993	0	2000	0
1995	0	2001	0
1996	0	2004	0
1997	0	2006	0
2000	0	2007	0
2001	0	1981	NA
2006	0	1982	NA
2007	0	1983	NA
2021	NA	1984	NA

SCOTTSL2 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

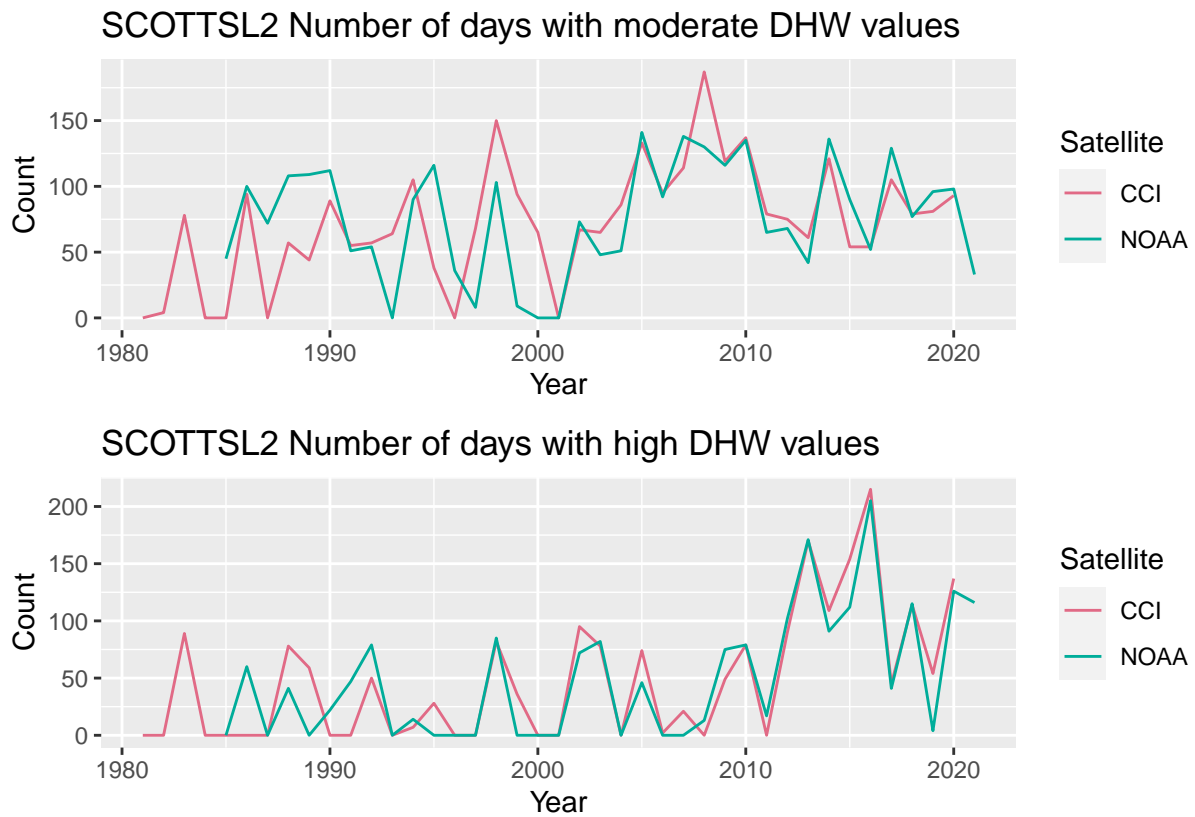


Table 19: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
2008	187	2005	141
1998	150	2007	138
2010	137	2014	136
2005	133	2010	135
2014	121	2008	130
2009	119	2017	129
2007	114	1995	116
1994	105	2009	116
2017	105	1990	112
2006	95	1989	109
1986	94	1988	108
1999	94	1998	103
2020	93	1986	100
1990	89	2020	98
2004	86	2019	96
2019	81	2006	92
2011	79	1994	90
2018	79	2015	90
1983	78	2018	77
2012	75	2002	73
1997	68	1987	72
2002	67	2012	68
2000	65	2011	65
2003	65	1992	54
1993	64	2016	52
2013	61	1991	51
1988	57	2004	51
1992	57	2003	48
1991	55	1985	45
2015	54	2013	42
2016	54	1996	36
1989	44	2021	33
1995	38	1999	9
1982	4	1997	8
1981	0	1993	0
1984	0	2000	0
1985	0	2001	0
1987	0	1981	NA
1996	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA

Table 20: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2016	215	2016	205
2013	170	2013	171
2015	154	2020	126
2020	137	2021	116
2018	114	2018	115
2014	109	2015	112
2002	95	2012	102
2012	90	2014	91
1983	89	1998	85
1998	82	2003	82
2010	79	1992	79
1988	78	2010	79
2003	78	2009	75
2005	74	2002	72
1989	59	1986	60
2019	54	1991	47
1992	50	2005	46
2009	49	1988	41
2017	45	2017	41
1999	36	1990	22
1995	28	2011	17
2007	21	1994	14
1994	7	2008	13
2006	2	2019	4
1981	0	1985	0
1982	0	1987	0
1984	0	1989	0
1985	0	1993	0
1986	0	1995	0
1987	0	1996	0
1990	0	1997	0
1991	0	1999	0
1993	0	2000	0
1996	0	2001	0
1997	0	2004	0
2000	0	2006	0
2001	0	2007	0
2004	0	1981	NA
2008	0	1982	NA
2011	0	1983	NA
2021	NA	1984	NA

SCOTTSL3 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

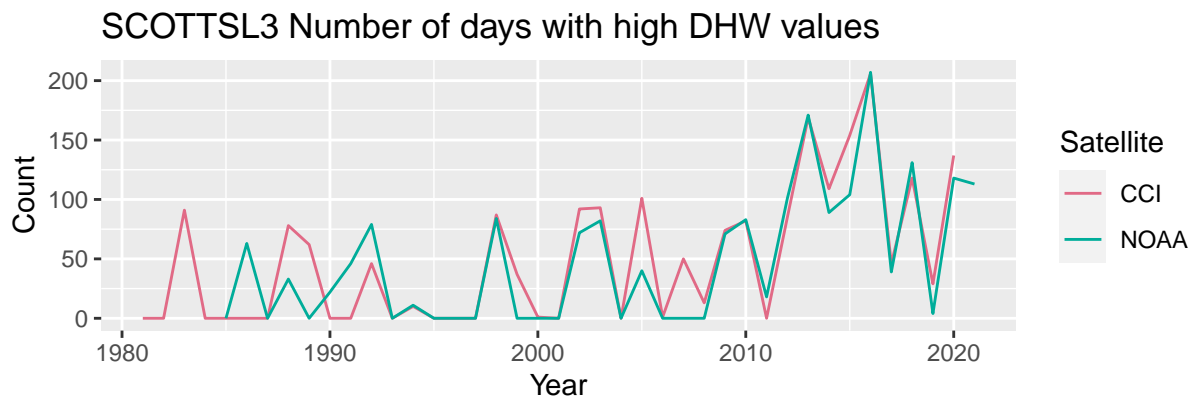
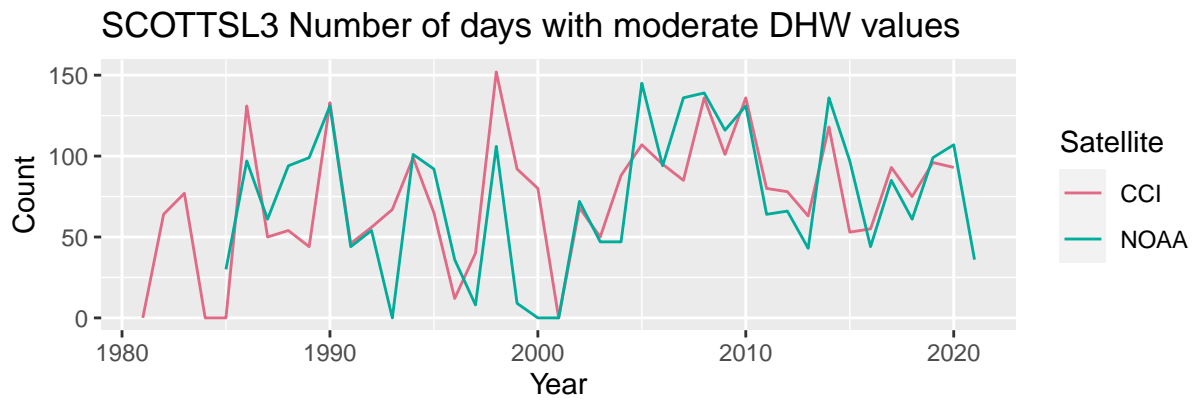


Table 21: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
1998	152	2005	145
2008	136	2008	139
2010	136	2007	136
1990	133	2014	136
1986	131	1990	131
2014	118	2010	131
2005	107	2009	116
2009	101	2020	107
1994	99	1998	106
2019	96	1994	101
2006	95	1989	99
2017	93	2019	99
2020	93	1986	97
1999	92	2015	97
2004	88	1988	94
2007	85	2006	94
2000	80	1995	92
2011	80	2017	85
2012	78	2002	72
1983	77	2012	66
2018	75	2011	64
2002	68	1987	61
1993	67	2018	61
1995	65	1992	54
1982	64	2003	47
2013	63	2004	47
1992	56	1991	44
2016	55	2016	44
1988	54	2013	43
2015	53	1996	36
1987	50	2021	36
2003	50	1985	30
1991	46	1999	9
1989	44	1997	8
1997	40	1993	0
1996	12	2000	0
1981	0	2001	0
1984	0	1981	NA
1985	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA

Table 22: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2016	206	2016	207
2013	169	2013	171
2015	154	2018	131
2020	137	2020	118
2018	118	2021	113
2014	109	2015	104
2005	101	2012	101
2003	93	2014	89
2002	92	1998	84
1983	91	2010	83
1998	87	2003	82
2012	85	1992	79
2010	82	2002	72
1988	78	2009	71
2009	74	1986	63
1989	62	1991	46
2007	50	2005	40
1992	46	2017	39
2017	46	1988	33
1999	37	1990	22
2019	29	2011	18
2008	13	1994	11
1994	10	2019	4
2000	1	1985	0
2006	1	1987	0
1981	0	1989	0
1982	0	1993	0
1984	0	1995	0
1985	0	1996	0
1986	0	1997	0
1987	0	1999	0
1990	0	2000	0
1991	0	2001	0
1993	0	2004	0
1995	0	2006	0
1996	0	2007	0
1997	0	2008	0
2001	0	1981	NA
2004	0	1982	NA
2011	0	1983	NA
2021	NA	1984	NA

SCOTTSS1 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

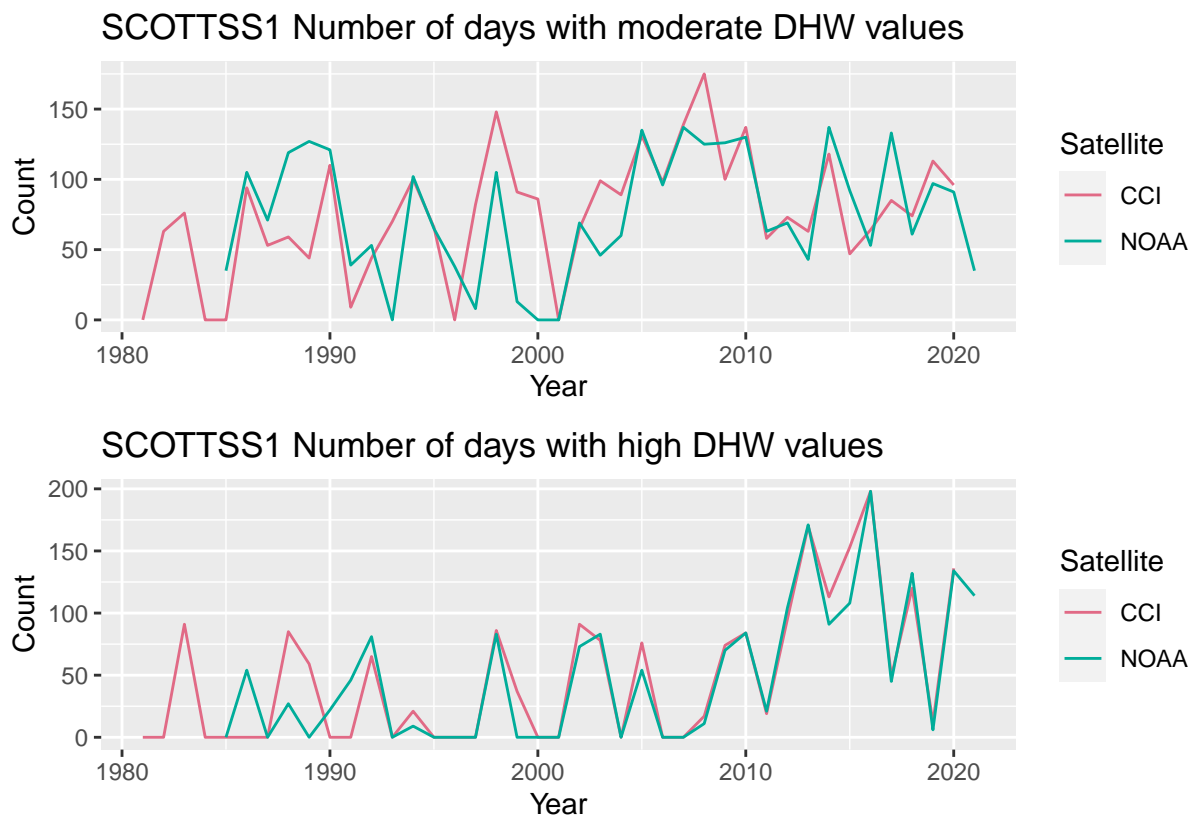


Table 23: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
2008	175	2007	137
1998	148	2014	137
2007	139	2005	135
2010	137	2017	133
2005	131	2010	130
2014	118	1989	127
2019	113	2009	126
1990	110	2008	125
1994	100	1990	121
2009	100	1988	119
2003	99	1986	105
2006	98	1998	105
2020	96	1994	102
1986	94	2019	97
1999	91	2006	96
2004	89	2015	92
2000	86	2020	91
2017	85	1987	71
1997	82	2002	69
1983	76	2012	69
2018	74	1995	65
2012	73	2011	63
1993	70	2018	61
1995	66	2004	60
2002	65	1992	53
2016	64	2016	53
1982	63	2003	46
2013	63	2013	43
1988	59	1991	39
2011	58	1996	38
1987	53	1985	35
2015	47	2021	35
1989	44	1999	13
1992	44	1997	8
1991	9	1993	0
1981	0	2000	0
1984	0	2001	0
1985	0	1981	NA
1996	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA

Table 24: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2016	198	2016	198
2013	170	2013	171
2015	153	2020	134
2020	136	2018	132
2018	120	2021	114
2014	113	2015	108
2012	95	2012	104
1983	91	2014	91
2002	91	2010	84
1998	86	1998	83
1988	85	2003	83
2010	84	1992	81
2003	78	2002	73
2005	76	2009	70
2009	74	1986	54
1992	65	2005	54
1989	59	1991	46
2017	49	2017	45
1999	37	1988	27
1994	21	1990	22
2011	19	2011	21
2008	17	2008	11
2019	12	1994	9
1981	0	2019	6
1982	0	1985	0
1984	0	1987	0
1985	0	1989	0
1986	0	1993	0
1987	0	1995	0
1990	0	1996	0
1991	0	1997	0
1993	0	1999	0
1995	0	2000	0
1996	0	2001	0
1997	0	2004	0
2000	0	2006	0
2001	0	2007	0
2004	0	1981	NA
2006	0	1982	NA
2007	0	1983	NA
2021	NA	1984	NA

SCOTTSS2 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

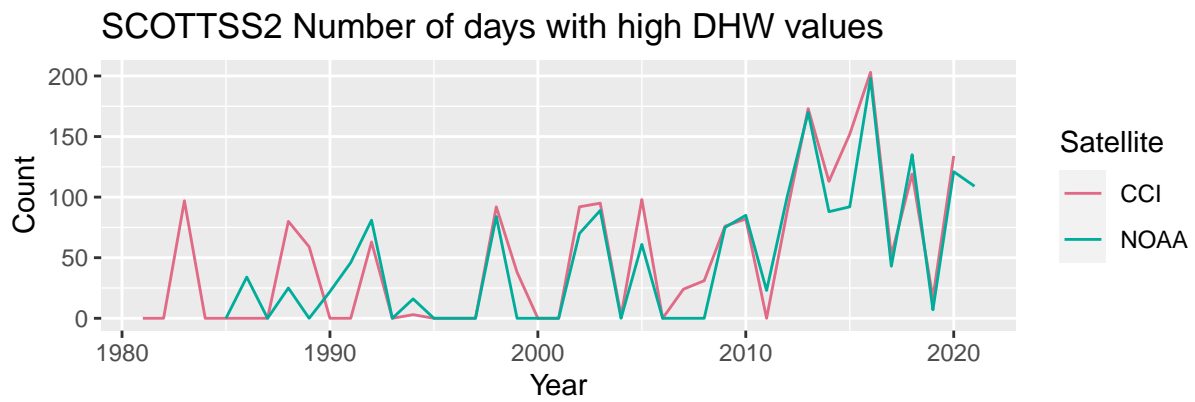
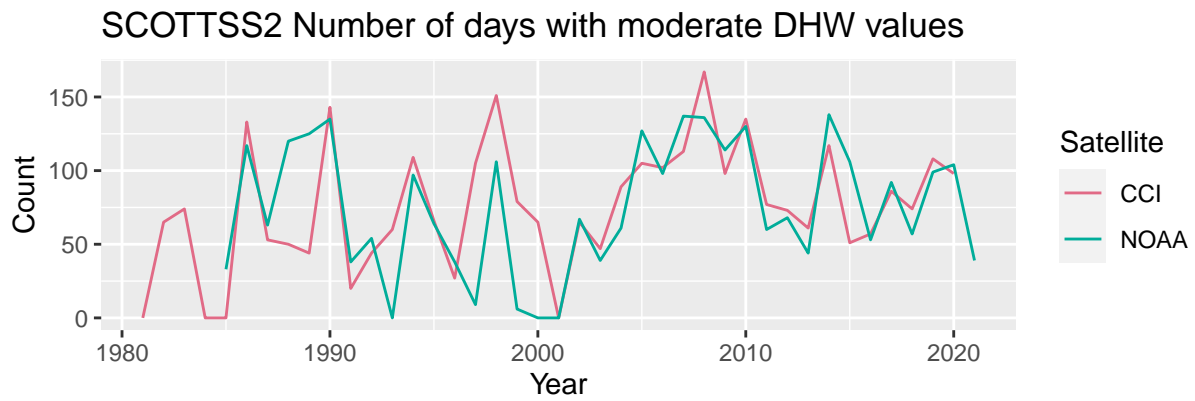


Table 25: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
2008	167	2014	138
1998	151	2007	137
1990	143	2008	136
2010	135	1990	135
1986	133	2010	130
2014	117	2005	127
2007	113	1989	125
1994	109	1988	120
2019	108	1986	117
1997	105	2009	114
2005	105	1998	106
2006	102	2015	106
2009	98	2020	104
2020	98	2019	99
2004	89	2006	98
2017	86	1994	97
1999	79	2017	92
2011	77	2012	68
1983	74	2002	67
2018	74	1995	64
2012	73	1987	63
1995	66	2004	61
1982	65	2011	60
2000	65	2018	57
2002	65	1992	54
2013	61	2016	53
1993	60	2013	44
2016	57	2003	39
1987	53	2021	39
2015	51	1991	38
1988	50	1996	38
2003	47	1985	33
1989	44	1997	9
1992	44	1999	6
1996	27	1993	0
1991	20	2000	0
1981	0	2001	0
1984	0	1981	NA
1985	0	1982	NA
2001	0	1983	NA
2021	NA	1984	NA

Table 26: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2016	203	2016	198
2013	173	2013	170
2015	152	2018	135
2020	134	2020	121
2018	119	2021	109
2014	113	2012	101
2005	98	2015	92
1983	97	2003	89
2003	95	2014	88
1998	92	2010	85
2002	92	1998	84
2012	89	1992	81
2010	82	2009	75
1988	80	2002	70
2009	76	2005	61
1992	63	1991	46
1989	59	2017	43
2017	52	1986	34
1999	38	1988	25
2008	31	2011	23
2007	24	1990	22
2019	17	1994	16
1994	3	2019	7
2004	2	1985	0
1981	0	1987	0
1982	0	1989	0
1984	0	1993	0
1985	0	1995	0
1986	0	1996	0
1987	0	1997	0
1990	0	1999	0
1991	0	2000	0
1993	0	2001	0
1995	0	2004	0
1996	0	2006	0
1997	0	2007	0
2000	0	2008	0
2001	0	1981	NA
2006	0	1982	NA
2011	0	1983	NA
2021	NA	1984	NA

Tantabiddi Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

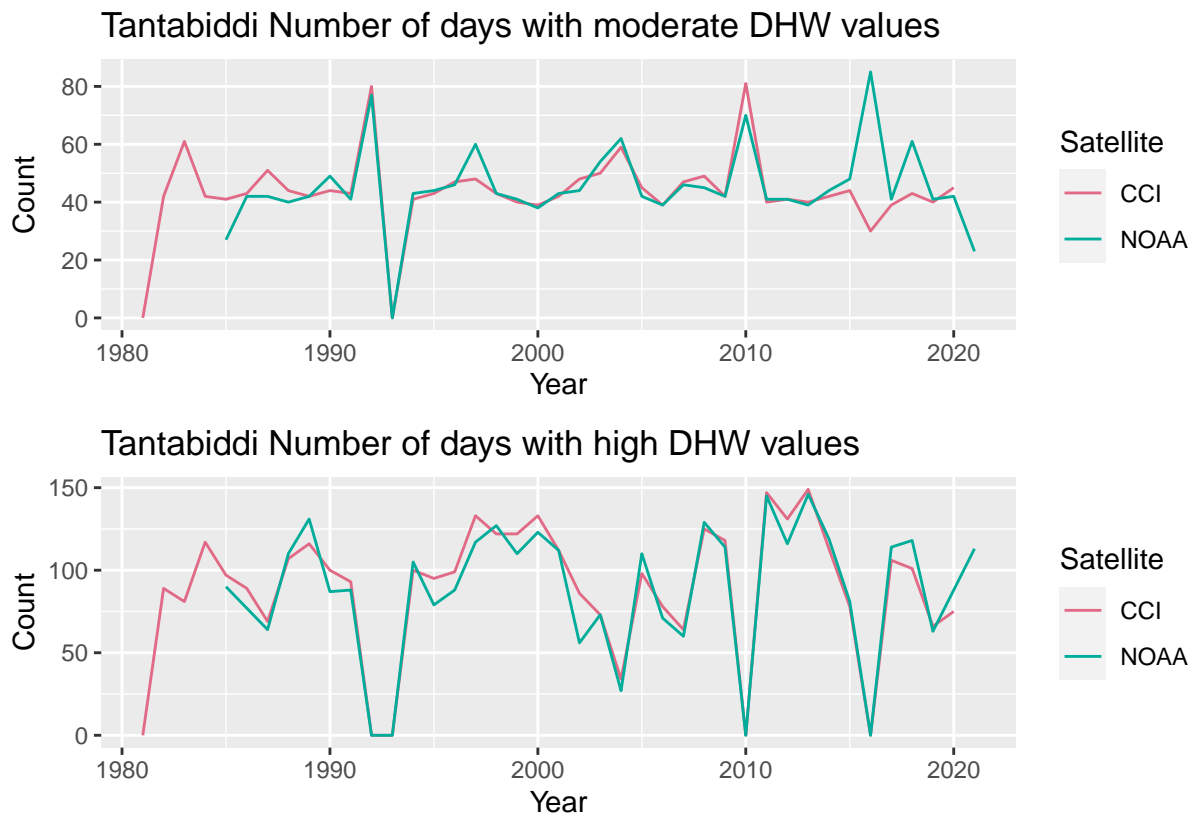


Table 27: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
2010	81	2016	85
1992	80	1992	77
1983	61	2010	70
2004	59	2004	62
1987	51	2018	61
2003	50	1997	60
2008	49	2003	54
1997	48	1990	49
2002	48	2015	48
1996	47	1996	46
2007	47	2007	46
2005	45	2008	45
2020	45	1995	44
1988	44	2002	44
1990	44	2014	44
2015	44	1994	43
1986	43	1998	43
1991	43	2001	43
1995	43	1986	42
1998	43	1987	42
2018	43	1989	42
1982	42	2005	42
1984	42	2009	42
1989	42	2020	42
2001	42	1991	41
2009	42	1999	41
2014	42	2011	41
1985	41	2012	41
1994	41	2017	41
2012	41	2019	41
1999	40	1988	40
2011	40	2006	39
2013	40	2013	39
2019	40	2000	38
2000	39	1985	27
2006	39	2021	23
2017	39	1993	0
2016	30	1981	NA
1981	0	1982	NA
1993	0	1983	NA
2021	NA	1984	NA

Table 28: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2013	149	2013	146
2011	147	2011	145
1997	133	1989	131
2000	133	2008	129
2012	131	1998	127
2008	125	2000	123
1998	122	2014	119
1999	122	2018	118
2009	118	1997	117
1984	117	2012	116
1989	116	2009	114
2014	113	2017	114
2001	112	2021	113
1988	107	2001	112
2017	106	1988	110
2018	101	1999	110
1990	100	2005	110
1994	100	1994	105
1996	99	1985	90
2005	98	1991	88
1985	97	1996	88
1995	95	2020	88
1991	93	1990	87
1982	89	2015	81
1986	89	1995	79
2002	86	1986	77
1983	81	2003	73
2006	78	2006	71
2015	78	1987	64
2020	75	2019	63
2003	73	2007	60
1987	69	2002	56
2019	66	2004	27
2007	64	1992	0
2004	34	1993	0
1981	0	2010	0
1992	0	2016	0
1993	0	1981	NA
2010	0	1982	NA
2016	0	1983	NA
2021	NA	1984	NA

TNT Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

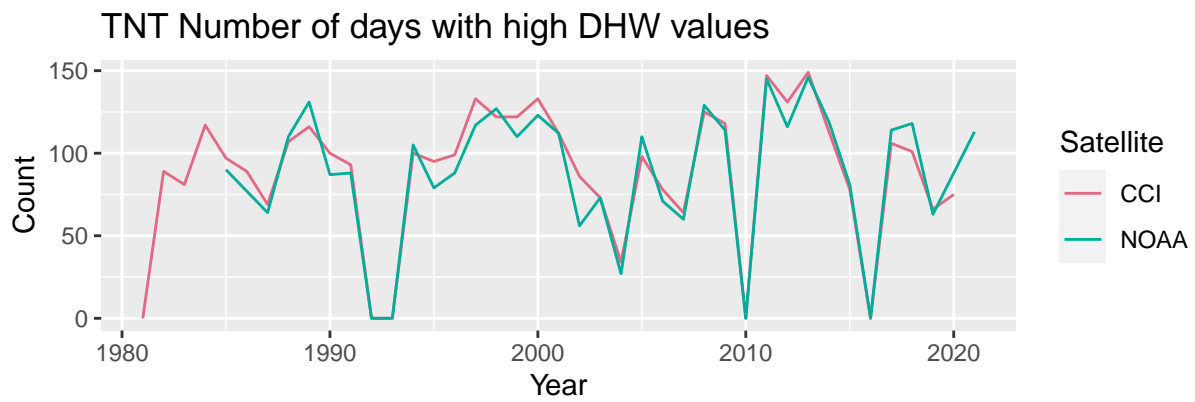
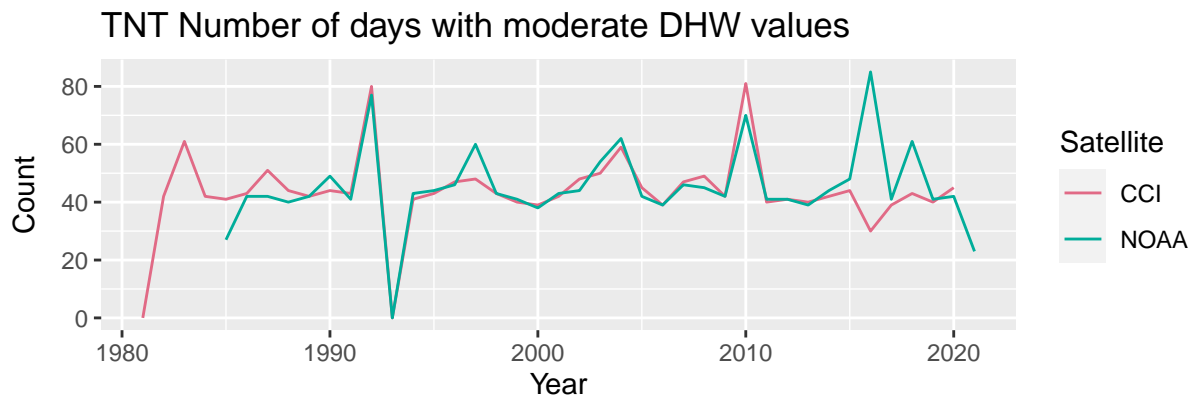


Table 29: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
2010	81	2016	85
1992	80	1992	77
1983	61	2010	70
2004	59	2004	62
1987	51	2018	61
2003	50	1997	60
2008	49	2003	54
1997	48	1990	49
2002	48	2015	48
1996	47	1996	46
2007	47	2007	46
2005	45	2008	45
2020	45	1995	44
1988	44	2002	44
1990	44	2014	44
2015	44	1994	43
1986	43	1998	43
1991	43	2001	43
1995	43	1986	42
1998	43	1987	42
2018	43	1989	42
1982	42	2005	42
1984	42	2009	42
1989	42	2020	42
2001	42	1991	41
2009	42	1999	41
2014	42	2011	41
1985	41	2012	41
1994	41	2017	41
2012	41	2019	41
1999	40	1988	40
2011	40	2006	39
2013	40	2013	39
2019	40	2000	38
2000	39	1985	27
2006	39	2021	23
2017	39	1993	0
2016	30	1981	NA
1981	0	1982	NA
1993	0	1983	NA
2021	NA	1984	NA

Table 30: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2013	149	2013	146
2011	147	2011	145
1997	133	1989	131
2000	133	2008	129
2012	131	1998	127
2008	125	2000	123
1998	122	2014	119
1999	122	2018	118
2009	118	1997	117
1984	117	2012	116
1989	116	2009	114
2014	113	2017	114
2001	112	2021	113
1988	107	2001	112
2017	106	1988	110
2018	101	1999	110
1990	100	2005	110
1994	100	1994	105
1996	99	1985	90
2005	98	1991	88
1985	97	1996	88
1995	95	2020	88
1991	93	1990	87
1982	89	2015	81
1986	89	1995	79
2002	86	1986	77
1983	81	2003	73
2006	78	2006	71
2015	78	1987	64
2020	75	2019	63
2003	73	2007	60
1987	69	2002	56
2019	66	2004	27
2007	64	1992	0
2004	34	1993	0
1981	0	2010	0
1992	0	2016	0
1993	0	1981	NA
2010	0	1982	NA
2016	0	1983	NA
2021	NA	1984	NA

TNT07C Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

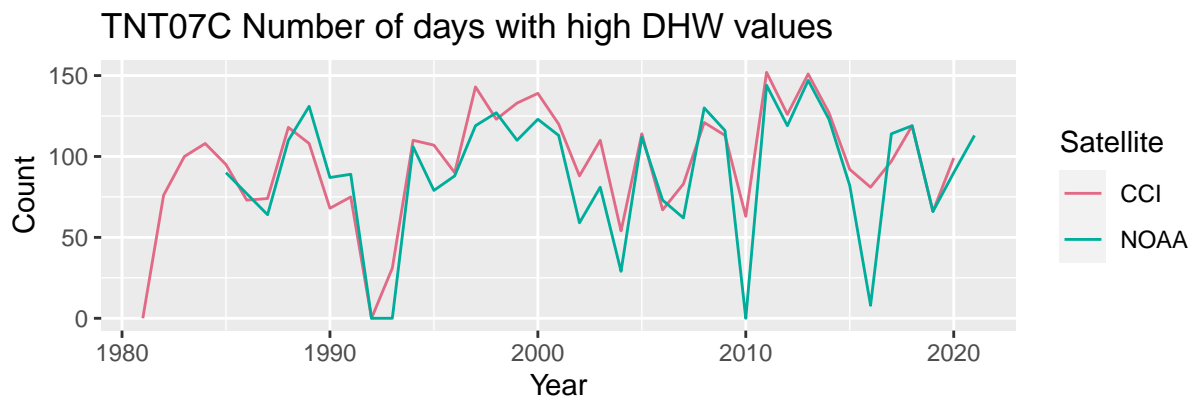
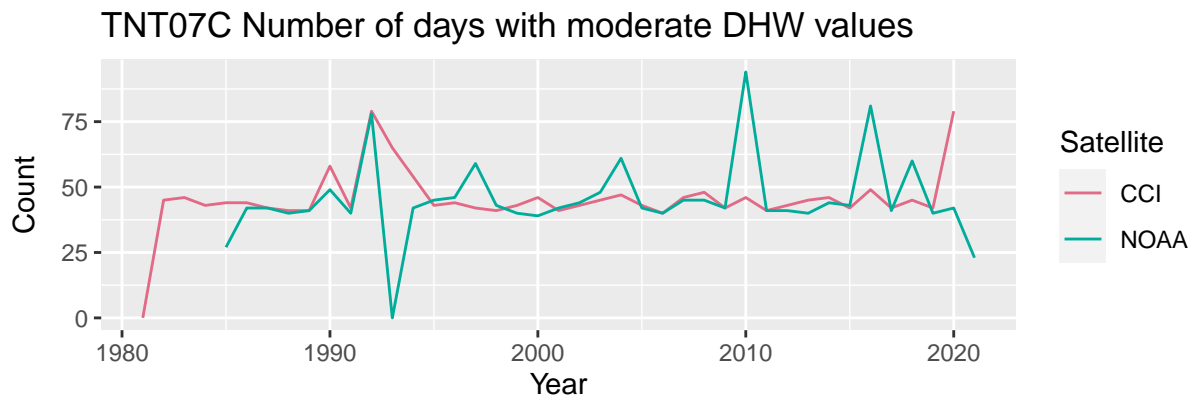


Table 31: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
1992	79	2010	94
2020	79	2016	81
1993	65	1992	78
1990	58	2004	61
1994	54	2018	60
2016	49	1997	59
2008	48	1990	49
2004	47	2003	48
1983	46	1996	46
2000	46	1995	45
2007	46	2007	45
2010	46	2008	45
2014	46	2002	44
1982	45	2014	44
2003	45	1998	43
2013	45	2015	43
2018	45	1986	42
1985	44	1987	42
1986	44	1994	42
1996	44	2001	42
1984	43	2005	42
1995	43	2009	42
1999	43	2020	42
2002	43	1989	41
2005	43	2011	41
2012	43	2012	41
1987	42	2017	41
1991	42	1988	40
1997	42	1991	40
2009	42	1999	40
2015	42	2006	40
2017	42	2013	40
2019	42	2019	40
1988	41	2000	39
1989	41	1985	27
1998	41	2021	23
2001	41	1993	0
2011	41	1981	NA
2006	40	1982	NA
1981	0	1983	NA
2021	NA	1984	NA

Table 32: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2011	152	2013	147
2013	151	2011	144
1997	143	1989	131
2000	139	2008	130
1999	133	1998	127
2014	127	2000	123
2012	126	2014	123
1998	123	1997	119
2008	121	2012	119
2001	120	2018	119
2018	119	2009	116
1988	118	2017	114
2005	114	2001	113
2009	113	2021	113
1994	110	2005	112
2003	110	1988	110
1984	108	1999	110
1989	108	1994	106
1995	107	1985	90
1983	100	2020	90
2020	99	1991	89
2017	97	1996	88
1985	95	1990	87
2015	92	2015	82
1996	90	2003	81
2002	88	1995	79
2007	83	1986	77
2016	81	2006	73
1982	76	2019	66
1991	75	1987	64
1987	74	2007	62
1986	73	2002	59
1990	68	2004	29
2006	67	2016	8
2019	66	1992	0
2010	63	1993	0
2004	54	2010	0
1993	31	1981	NA
1981	0	1982	NA
1992	0	1983	NA
2021	NA	1984	NA

Wallabi Island Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

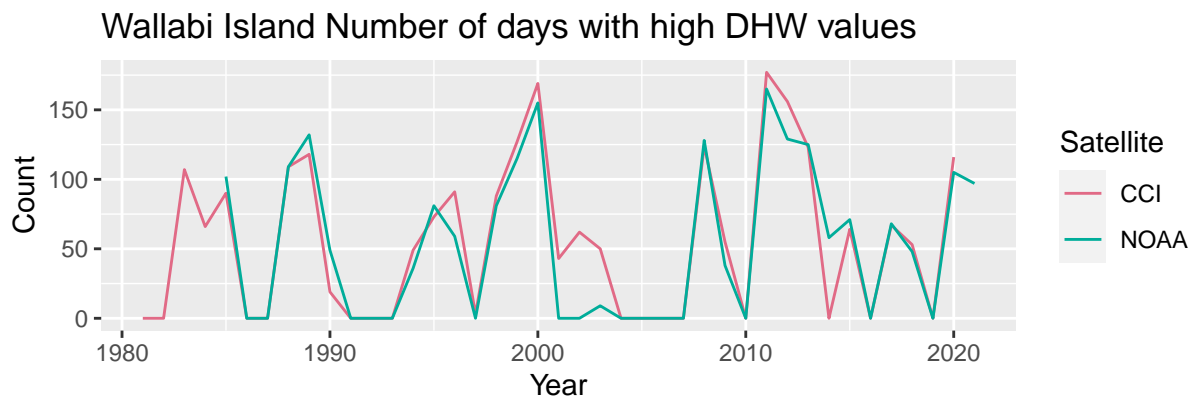
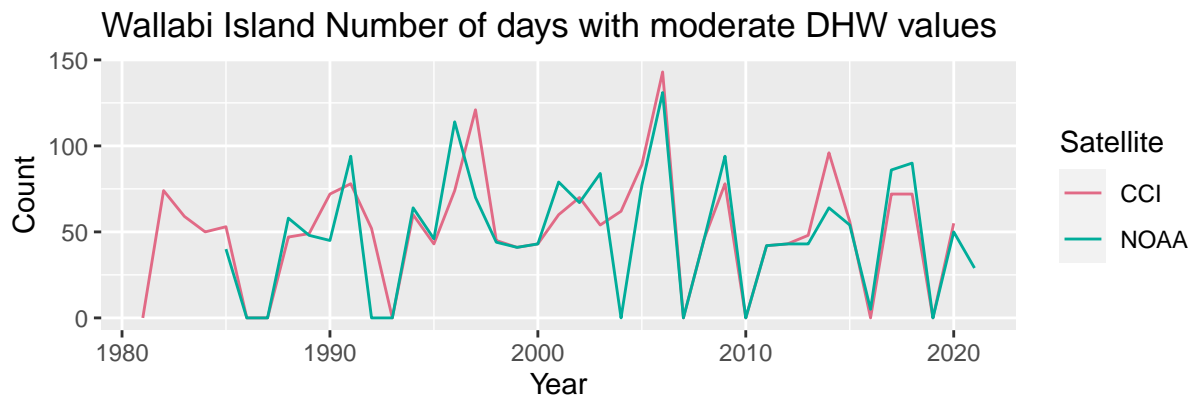


Table 33: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
2006	143	2006	131
1997	121	1996	114
2014	96	1991	94
2005	89	2009	94
1991	78	2018	90
2009	78	2017	86
1982	74	2003	84
1996	74	2001	79
1990	72	2005	77
2017	72	1997	70
2018	72	2002	67
2002	70	1994	64
2004	62	2014	64
1994	60	1988	58
2001	60	2015	54
1983	59	2020	50
2015	56	1989	48
2020	55	1995	46
2003	54	2008	46
1985	53	1990	45
1992	52	1998	44
1984	50	2000	43
1989	49	2012	43
2013	48	2013	43
1988	47	2011	42
2008	46	1999	41
1998	45	1985	40
1995	43	2021	29
2000	43	2016	5
2012	43	1986	0
2011	42	1987	0
1999	41	1992	0
1981	0	1993	0
1986	0	2004	0
1987	0	2007	0
1993	0	2010	0
2007	0	2019	0
2010	0	1981	NA
2016	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 34: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2011	177	2011	165
2000	169	2000	155
2012	156	1989	132
1999	127	2012	129
2008	124	2008	128
2013	123	2013	125
1989	118	1999	115
2020	116	1988	109
1988	109	2020	105
1983	107	1985	102
1996	91	2021	97
1985	90	1995	81
1998	88	1998	81
1995	73	2015	71
2017	67	2017	68
1984	66	1996	59
2015	64	2014	58
2002	62	1990	49
2009	55	2018	48
2018	53	2009	38
2003	50	1994	36
1994	49	2003	9
2001	43	1986	0
1990	19	1987	0
1997	3	1991	0
1981	0	1992	0
1982	0	1993	0
1986	0	1997	0
1987	0	2001	0
1991	0	2002	0
1992	0	2004	0
1993	0	2005	0
2004	0	2006	0
2005	0	2007	0
2006	0	2010	0
2007	0	2016	0
2010	0	2019	0
2014	0	1981	NA
2016	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

HAB05B Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

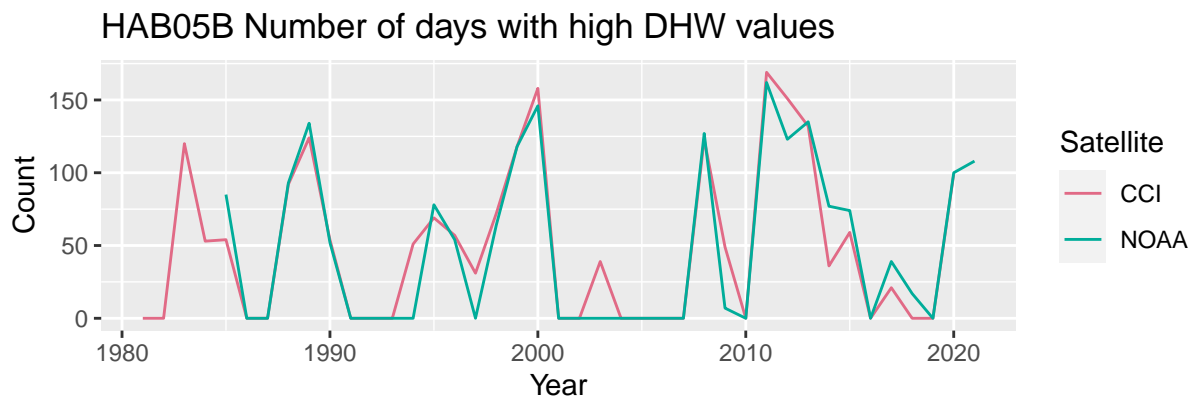
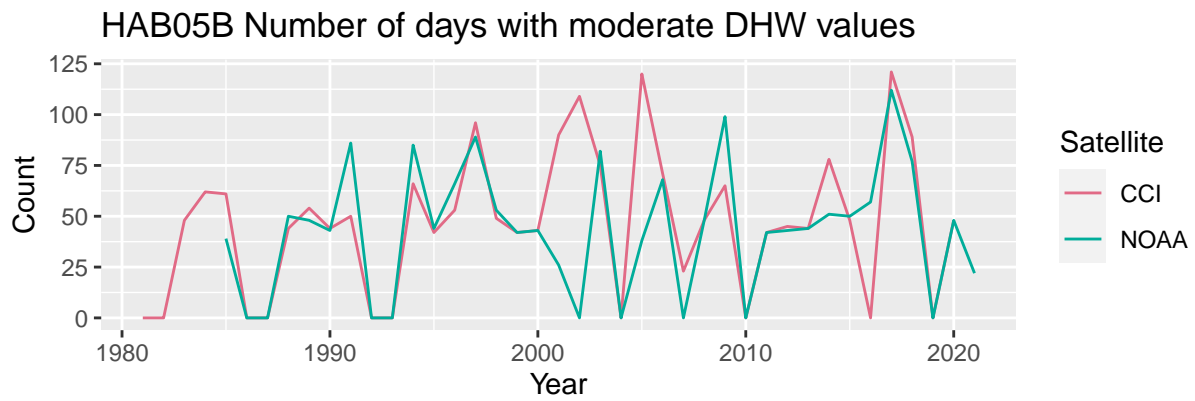


Table 35: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
2017	121	2017	112
2005	120	2009	99
2002	109	1997	89
1997	96	1991	86
2001	90	1994	85
2018	89	2003	82
2014	78	2018	77
2003	75	2006	68
2006	71	1996	66
1994	66	2016	57
2009	65	1998	53
1984	62	2014	51
1985	61	1988	50
1989	54	2015	50
1996	53	1989	48
1991	50	2008	48
1998	49	2020	48
1983	48	1995	44
2008	48	2013	44
2015	48	1990	43
2020	48	2000	43
2012	45	2012	43
1988	44	1999	42
1990	44	2011	42
2013	44	1985	39
2000	43	2005	38
1995	42	2001	26
1999	42	2021	22
2011	42	1986	0
2007	23	1987	0
1981	0	1992	0
1982	0	1993	0
1986	0	2002	0
1987	0	2004	0
1992	0	2007	0
1993	0	2010	0
2004	0	2019	0
2010	0	1981	NA
2016	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 36: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2011	169	2011	162
2000	158	2000	146
2012	151	2013	135
2013	132	1989	134
1989	124	2008	127
2008	123	2012	123
1983	120	1999	118
1999	118	2021	108
2020	99	2020	100
1988	92	1988	93
1998	72	1985	85
1995	69	1995	78
2015	59	2014	77
1996	57	2015	74
1985	54	1998	64
1990	54	1996	54
1984	53	1990	52
1994	51	2017	39
2009	49	2018	17
2003	39	2009	7
2014	36	1986	0
1997	31	1987	0
2017	21	1991	0
1981	0	1992	0
1982	0	1993	0
1986	0	1994	0
1987	0	1997	0
1991	0	2001	0
1992	0	2002	0
1993	0	2003	0
2001	0	2004	0
2002	0	2005	0
2004	0	2006	0
2005	0	2007	0
2006	0	2010	0
2007	0	2016	0
2010	0	2019	0
2016	0	1981	NA
2018	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

HAB10A Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

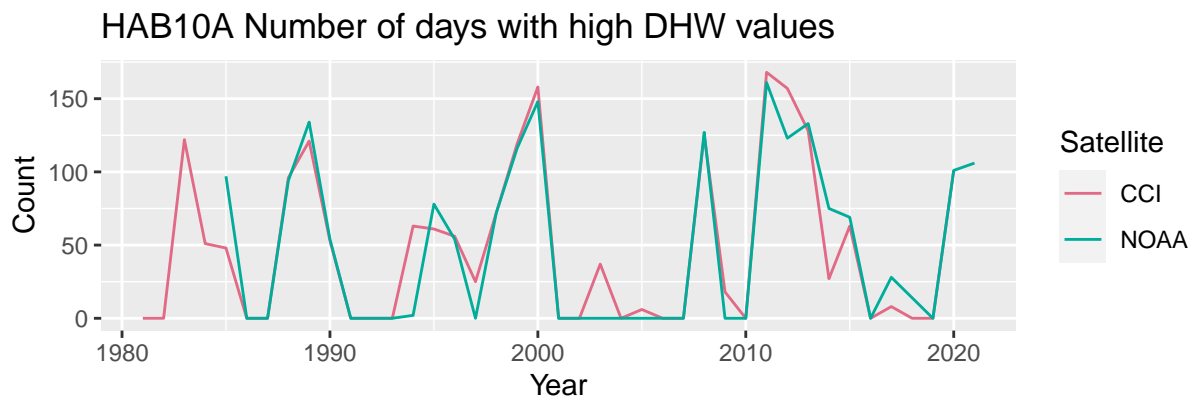
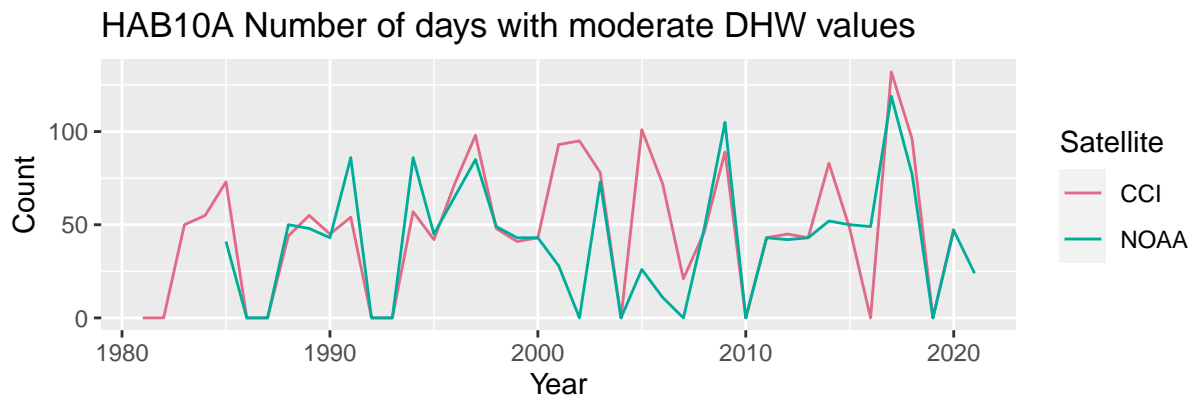


Table 37: Number of Days with moderate Degree Heating Week values

Year	CCI_DHW4	Year	NOAA_DHW4
2017	121	2017	119
2005	120	2009	105
2002	109	1991	86
1997	96	1994	86
2001	90	1997	85
2018	89	2018	77
2014	78	2003	73
2003	75	1996	65
2006	71	2014	52
1994	66	1988	50
2009	65	2015	50
1984	62	1998	49
1985	61	2016	49
1989	54	1989	48
1996	53	2008	48
1991	50	2020	47
1998	49	1995	45
1983	48	1990	43
2008	48	1999	43
2015	48	2000	43
2020	48	2011	43
2012	45	2013	43
1988	44	2012	42
1990	44	1985	41
2013	44	2001	28
2000	43	2005	26
1995	42	2021	24
1999	42	2006	11
2011	42	1986	0
2007	23	1987	0
1981	0	1992	0
1982	0	1993	0
1986	0	2002	0
1987	0	2004	0
1992	0	2007	0
1993	0	2010	0
2004	0	2019	0
2010	0	1981	NA
2016	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 38: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2011	168	2011	161
2000	158	2000	148
2012	157	1989	134
2013	128	2013	133
2008	125	2008	127
1983	122	2012	123
1989	121	1999	116
1999	119	2021	106
2020	101	2020	101
1988	96	1985	97
1998	72	1988	94
1994	63	1995	78
2015	63	2014	75
1995	61	1998	72
1996	56	2015	69
1990	53	1990	54
1984	51	1996	54
1985	48	2017	28
2003	37	2018	14
2014	27	1994	2
1997	25	1986	0
2009	18	1987	0
2017	8	1991	0
2005	6	1992	0
1981	0	1993	0
1982	0	1997	0
1986	0	2001	0
1987	0	2002	0
1991	0	2003	0
1992	0	2004	0
1993	0	2005	0
2001	0	2006	0
2002	0	2007	0
2004	0	2009	0
2006	0	2010	0
2007	0	2016	0
2010	0	2019	0
2016	0	1981	NA
2018	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA