UWKA flight parameters

Saturday, June 22, 2019
20:12

Overview of waypoint sequences

WindDirMin	WindDirMax	Pattern	Waypoint-sequence*
315	45	WE1	1, 2, 1, 4, 1; 3, 4, 3, 6, 3; 5, 6, 5, 8, 5; 7, 8, 7, 10, 7; 9, 10, 9, 12, 9; 11, 12, 11
15	105	SE1	1, 2, 1, 4, 1; 3, 4, 3, 6, 3; 5, 6, 5, 8, 5; 7, 8, 7, 10, 7; 9, 10, 9, 12, 9; 11, 12, 11
75	165	SW1	1, 2, 1, 4, 1; 3, 4, 3, 6, 3; 5, 6, 5, 8, 5; 7, 8, 7, 10, 7; 9, 10, 9, 12, 9; 11, 12, 11
135	225	WE2	12, 11, 12, 9, 12; 10, 9 , 10, 7, 10; 8, 7, 8, 5, 8; 6, 5, 6, 3, 6; 4, 3, 4, 1, 4; 2, 1, 2
195	285	SE2	12, 11, 12, 9, 12; 10, 9 , 10, 7, 10; 8, 7, 8, 5, 8; 6, 5, 6, 3, 6; 4, 3, 4, 1, 4; 2, 1, 2
255	345	SW2	12, 11, 12, 9, 12; 10, 9 , 10, 7, 10; 8, 7, 8, 5, 8; 6, 5, 6, 3, 6; 4, 3, 4, 1, 4; 2, 1, 2

- WindDirMin and WindDirMax refer to the minimum and maximum applicable wind direction for a pattern/waypoint sequence, respectively
- In the waypoint-sequence column, ';' means a 2 km turn to the next waypoint
- Begin campaign with 90-270-turns; should this become time-limiting due to the large number of turns, consider moving to 180-turns

Flight legs

WE1 (northerly winds) SE1 (southwesterly winds) SW1 (northwesterly winds)				WE2 (southerly winds) SE2 (northeasterly winds) SW2 (southeasterly winds)			
Leg	Start	End	Altitude	Leg	Start	End	Altitude
leg_01	1	2	400	leg_01	12	11	400
leg_02	2	1	100	leg_02	11	12	100
leg_03	1	4	400	leg_03	12	9	400
leg_04	4	1	100	leg_04	9	12	100
leg_05	3	4	400	leg_05	10	9	400
leg_06	4	3	100	leg_06	9	10	100
leg_07	3	6	400	leg_07	10	7	400
leg_08	6	3	100	leg_08	7	10	100
leg_09	5	6	400	leg_09	8	7	400
leg_10	6	5	100	leg_10	7	8	100
leg_11	5	8	400	leg_11	8	5	400
leg_12	8	5	100	leg_12	5	8	100
leg_13	7	8	400	leg_13	6	5	400
leg_14	8	7	100	leg_14	5	6	100
leg_15	7	10	400	leg_15	6	3	400
leg_16	10	7	100	leg_16	3	6	100
leg_17	9	10	400	leg_17	4	3	400
leg_18	10	9	100	leg_18	3	4	100
leg_19	9	12	400	leg_19	4	1	400
leg_20	12	9	100	leg_20	1	4	100
leg_21	11	12	400	leg_21	2	1	400
leg_22	12	11	100	leg_22	1	2	100

West-East patterns (WE1, WE2)
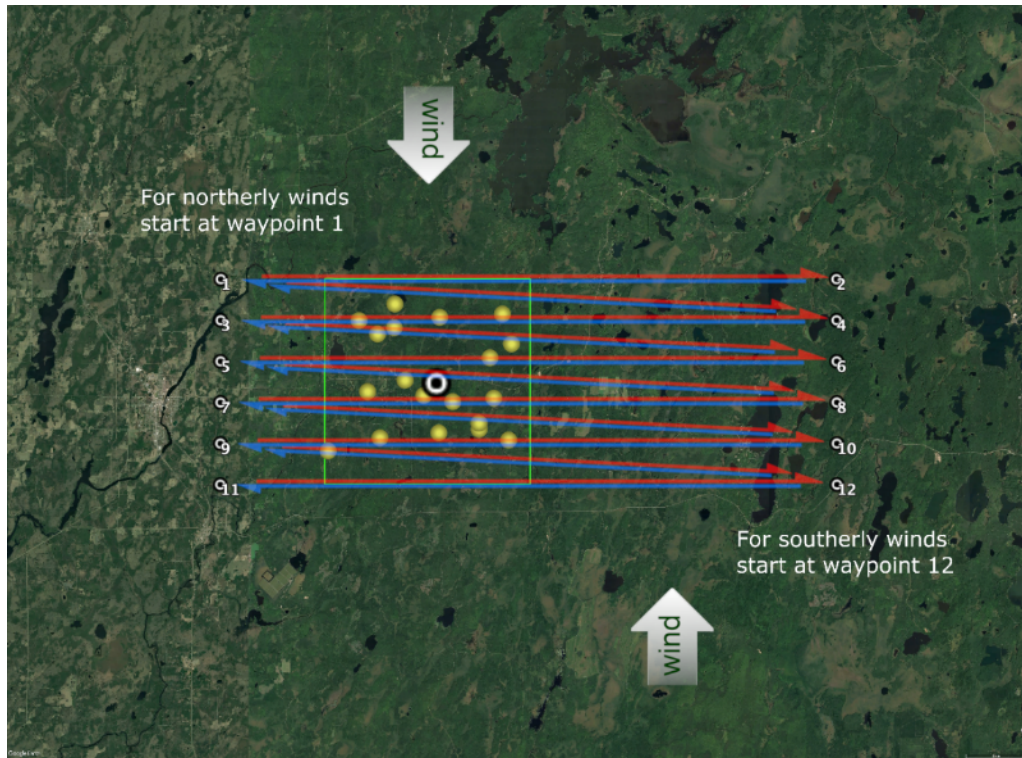
WAYPOINT	LAT	LON
1	N 45 59.42'	W 090 24.61'
2	N 45 59.42'	W 090 01.30'
3	N 45 58.34'	W 090 24.61'
4	N 45 58.34'	W 090 01.30'
5	N 45 57.26'	W 090 24.61'
6	N 45 57.26'	W 090 01.30'
7	N 45 56.18'	W 090 24.61'
8	N 45 56.18'	W 090 01.30'
9	N 45 55.10'	W 090 24.61'
10	N 45 55.10'	W 090 01.30'
11	N 45 54.02'	W 090 24.61'
12	N 45 54.02'	W 090 01.30'

Southeast-Northwest patterns (SE1, SE2)
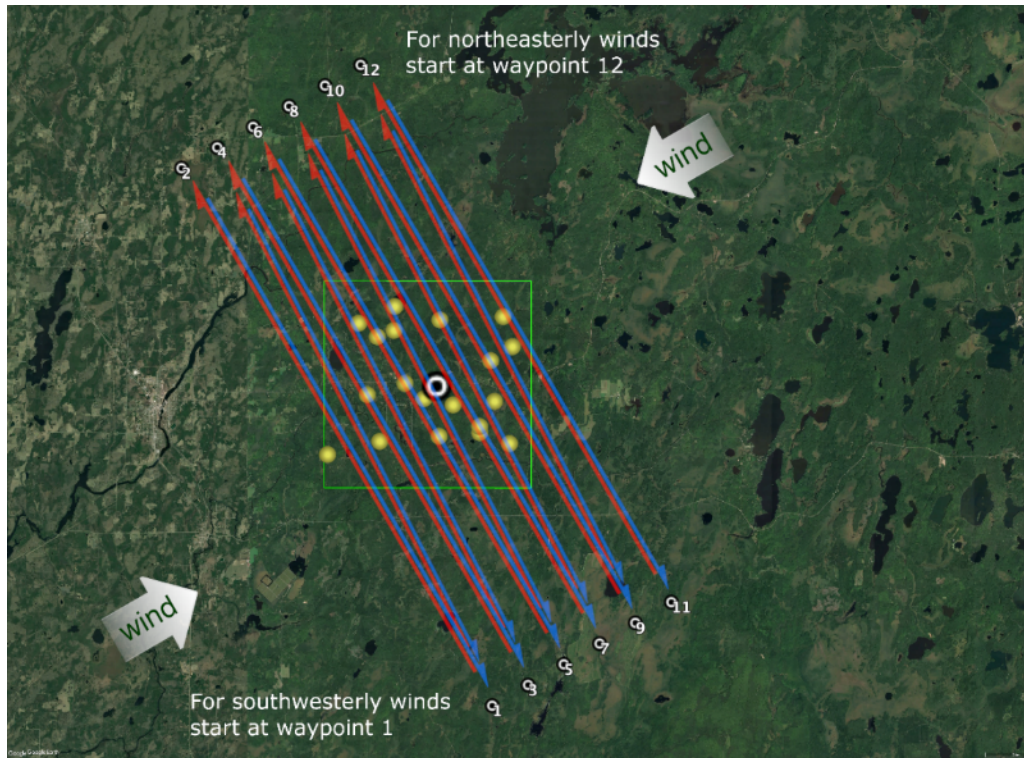
WAYPOINT	LAT	LON
1	N 45 48.36'	W 090 14.36'
2	N 46 02.38'	W 090 26.04'
3	N 45 48.90'	W 090 13.02'
4	N 46 02.92'	W 090 24.70'
5	N 45 49.44'	W 090 11.68'
6	N 46 03.46'	W 090 23.35'
7	N 45 49.98'	W 090 10.34'
8	N 46 04.00'	W 090 22.00'
9	N 45 50.52'	W 090 09.00'
10	N 46 04.54'	W 090 20.65'
11	N 45 51.06'	W 090 07.65'
12	N 46 05.08'	W 090 19.31'

Southwest-Northeast patterns (SW1, SW2)
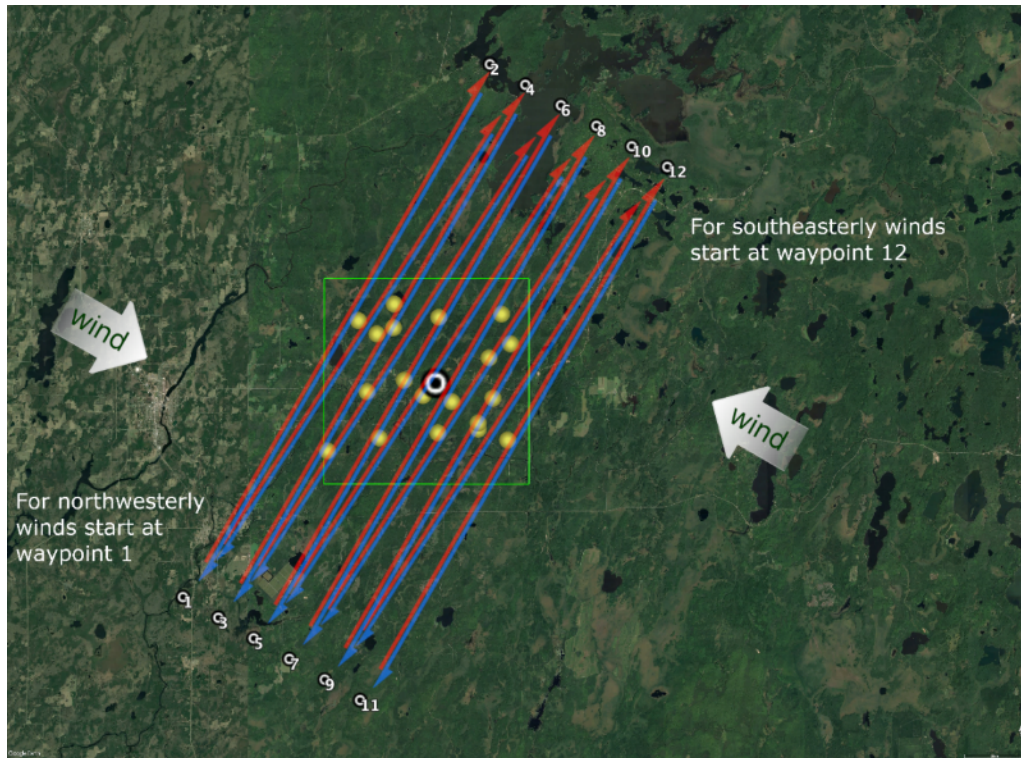
Waypoint	LAT	LON
1	N 45 51.06'	W 090 26.00'
2	N 46 05.08'	W 090 14.39'
3	N 45 50.52'	W 090 24.66'
4	N 46 04.54'	W 090 13.04'
5	N 45 49.98'	W 090 23.32'
6	N 46 04.00'	W 090 11.69'
7	N 45 49.44'	W 090 21.97'
8	N 46 03.46'	W 090 10.34'
9	N 45 48.90'	W 090 20.63'
10	N 46 02.92'	W 090 09.00'
11	N 45 48.36'	W 090 19.29'
12	N 46 02.38'	W 090 07.65'