

Table of Boundary-Layer Heterogeneity Flights\* (green = east track; yellow = central track, tan = western track)

BLH no	KA no	Date	Track	65-mWind (m/s)	Cloud	BL Depth (m agl)	Legs
1	2	19 May	W	-0.76,13.19	Clear	700 m beg to 1.6 km end. Narrow Entrainment Zone	10 legs: 6 at 200 feet, 2 in EZ, 2 at 0.5h
2	3	20 May	W	-4.89,12.12	One cloudy period over site 3	1000 m, top EZ 1200 m beginning to 1400 m end	10 Legs: 2 at 200', 2 at 0.15 h, 2 at 0.3 h, 2 at 0.7 h, 1at top EZ, 1at about 0.85 h
3	4	21 May	C	-3.53,10.09	Scat-Broken Ci, Cu humulis	1500 m during entire period; EZ top about 1900 m.	7 Legs: 6 at 200 feet, 1 at 0.6h (could count 2 more if use P3 I/C legs)
4	7	25 May	W	-1.79,1.69	Scat-Broken Ci	300m beg – 1200 m end; EZ top 600m beg to 1350m end	12 Legs: 10 at 200 feet, 1 at 2 x BL height, one in EZ
5	8	27 May	E	-1.81,5.24 (W to E only)	Broken Ci, Altocumulus	250 m beg – 400 m end; EZ top 300 m beg – 800 m end.	15 legs: 8 at 200 fet, 7 in EZ
6	9	29 May	W	0.97,4.82	Clear Exc Cu to West	300 m beg – 1200 m end, EZ 500 m beg – 1800 m end. BL top variable from both soundings and WCR	15 legs in stacks: 5 at 200 ft, 4 nominally at 0.7 zi; 4 nominally at 0.4 zi, 2 above EZ.
7	10	30 May	E	-1.39,3.69	Scat Ci, Few Cu humulis	600 m beg – 900 m end; EZ top 20% higher.	16 legs: 8 at 200 feet, 5 at 0.7 h, 2 above h.
8	11	31 May	C	0.67,6.55	Few Ci, Cu humulis	900 m beg – 1300 m end; EZ 10% higher.	10 Legs: 7 at 200 feet, 3 at 0.7h.
9	15	6 June	C+	2.01,4.93	Few Cu, Ci	700 m beg – 1500 m end; top EZ 1 km beg – 2 km end. WCR show significant variability	12 legs: 3 ea at 0.3h, 0.8h, 0.55, 1.4 h. First 0.8h leg too high. 2 sorties; leg extended W; length 100 km. Used h because Falcon needed continuous fluxes.
10	16	7 June	W	3.45,10.06	Scat Ci	400 m beg – 1200 m end; EZ top 800 m beg – 1600 m end. Variable.	13 legs: 7 at 200 feet, 6 at 0.7 zi (note zi used here instead of h).
11	22	16 June	C	-0.78,-0.28	Scat Cu	800 m (steady), top EZ 1 km beg – 2 km end (cloud base to cloud top?)	12 legs: 8 at 200 feet, 2 at 0.7h, 1 at 0.5h, 1 at 0.3h.
12	23	17	E	2.73,7.17	Scat Altostrat;	900 m beg – 1200 m end; EZ or	18 legs: 6 at 200 feet, 6 at 0.7h, 6 at 0.15h

		June			Cu humulis	cloud top 1.2 km beg – 1.5 km end	
13	26	20 June	E	-1.60,5.08	Scat Cu h, Ci	750 m beg – 1000 m end; EZ top 1200 m beg – 1500 m end.	16 legs: 5 at 200 ft, 5 at 0.7 h, 4 at 0.4h, 2 at 0.15h.
14	28	22 June	E	-0.22,9.42	Few-scat Cu h	700 m beg – 1200 m end; Eztop 1150 m beg, 2050 m end.	18 legs: 11 at 200 ft, 6 at 0.7h, 1 at h, 1 at 0.4h.

\*Prepared by Peggy LeMone, 12 July 2002, KA mission numbers added 29 March 2019