#### G-1 Stack Pattern 1: Instrument Testing.

The motivation for this flight is to test instruments and to evaluate characteristic values of key measurements at different heights in both clear air and in the presence of clouds. This will be one of the first flights to be done during the campaign.

We would like to fly one stack of four (4) flight legs approximately 14 nm <u>upwind</u> of Will Rogers World Airport, followed by a single stack of six (6) horizontal flight legs approximately 14 nm <u>downwind</u> of this airport. Each upwind leg will be 30 nm long, and each downwind leg will be approximately 40 nm long.

The legs in the upwind stack will consist of 1) one transect below cloud base at approximately 3,000 ft MSL, 2) a transect within the cloud layer (with the AMS sampling the CVI inlet), 3) a second identical transect within the cloud layer (with the AMS sampling the isokinetic inlet) and 4) one transect above cloud top.

The legs in the downwind stack will consist of transects made at 1) 3,000 ft MSL, 2) just below cloud base, 3) within cloud with the AMS sampling through isokinetic inlet, 4) at the same altitude within cloud with the AMS sampling through CVI inlet, 5) higher altitude within cloud with AMS sampling through isokinetic inlet CVI inlet [this leg will likely be above some cloud tops], 5) at the same altitude, but with the AMS sampling through the CVI inlet and 6) free atmosphere.

Although we have drawn the pattern using a reference wind from the south we would like the option to rotate it to match the drift of the plume from Oklahoma City on a given day. For this flight pattern, we anticipate that the NASA King Air will be flying above us at altitudes in excess of 25,000 ft MSL. G-1 waypoints are defined alphabetically, e.g., from PNC to Waypoint A, to Waypoint B, etc.

#### G-1 Stack Pattern 1: Instrument testing

	Total ETE (min): 216.4			
WP UTC Time LAT LON ALT (th DWL 0000000 25 770 0 01440 1 4007	SPD (kts)	) HDG	Dist (nm)	ETE (min)
	200.0	173.0	93.21	28.0
	180.0	260.6	30.03	10.0
B 00:57:58 55:178 -97.806 5000	180.0	spiral	12.00	4.0
B 00:41:58 35.178 -97.806 4000	180.0	80.6	30.03	10.0
A 00:51:59 35.177 -97.194 4000	180.0	spiral	12.00	4.0
A 00:55:59 35.177 -97.194 4000	180.0	260.6	30.03	10.0
B 01:05:60 35.178 -97.806 4000	180.0	spiral	12.00	4.0
B 01:09:60 35.178 -97.806 8000	180.0	80.6	30.03	10.0
A 01:20:00 35.177 -97.194 8000	180.0	1.2	27.80	9.3
C 01:29:16 35.632 -97.089 3000	180.0	260.5	40.05	13.3
D 01:42:37 35.632 -97.910 3000	180.0	sniral	0.00	4.0
D 01:46:37 35.632 -97.910 3500	180.0	80.5	40.05	13.3
C 01:59:58 35.632 -97.089 3500	180.0	spiral	0.00	4.0
C 02:03:58 35.632 -97.089 4000	190.0	260.5	40.05	43.3
D 02:17:19 35.632 -97.910 4000	100.0	200.5	40.05	13.3
D 02:21:19 35.632 -97.910 4000	100.0	spiral	0.00	4.0
C 02:34:40 35.632 -97.089 4000	180.0	80.5	40.05	13.3
C 02:38:40 35.632 -97.089 5000	180.0	spiral	0.00	4.0
D 02:52:01 35.632 -97.910 5000	180.0	260.5	40.05	13.3
D 02:56:01 35.632 -97.910 5000	180.0	spiral	0.00	4.0
C 02:56:01 35.632 -97.910 5000	180.0	170.5	0.00	0.0
C 03:00:01 35.632 -97.089 8000	180.0	spiral	0.00	4.0
D 03:13:22 35.632 -97.910 8000	180.0	260.5	40.05	13.3
PNC 03:36:23 36.731 -97.100 1007	200.0	21.3	76.71	23.0

# G-1 Stack Pattern 2: Basic Oklahoma City Cloudy Air Flight Plan.

This pattern is the basic OKC Cloudy Air Flight Plan. The motivation for this flight is to characterize aerosols in regional and dirty air, below and within clouds. This is the primary flight pattern for the campaign, and some will be coordinated with the ER-2.

This flight plan consists of one stack of four (4) flight legs flown upwind of Oklahoma City, and a set of two or three stacks of four horizontal flight legs flown downwind of Oklahoma City (the exact number will depend on fuel concerns, and be determined by the pilots). Each upwind leg will be approximately 30 nm long. We would like to fly the upwind stack of four transects approximately 14 nm upwind of the Will Rogers World Airport, and the first downwind stack 14 nm downwind of the Will Rogers World Airport. Each subsequent downwind stack will be flown 5 to 15 nm downwind of the previous stack. The legs in each stack will consist of the following transects: 1) one below cloud base at approximately 3,000 ft MSL, 2) one within the cloud layer (with the AMS sampling the CVI line), 3) a second identical transect within the cloud layer (with the AMS sampling the CVI inlet), 4) and one above cloud top. The last downwind stack can be terminated early, or eliminated entirely depending on the elapsed time, fuel reserves, etc.

The King Air will perform a series of coincident level legs transects above (~25,000 ft MSL) the locations of the G-1 to map out the aerosol and cloud distributions at various distances downwind of Oklahoma City. These transects, like the G-1 transects, will be oriented perpendicular to the mean 850 mb wind and the Oklahoma City plume. The King Air transects will be slightly longer than G-1 transects in order to locate and sample the entire horizontal width of the plume as well as regions outside of the plume. While traveling en route to the anticipated location of the coordinated G-1 pattern, the King Air will perform a "zig-zag" pattern oriented roughly perpendicular to the exact location of the plume and to direct the G-1 to the optimal position to sample the plume.

We have drawn the pattern using a reference wind from the south but would like the option to rotate it to match the drift of the plume from Oklahoma City on a given day. G-1 waypoints are defined alphabetically, e.g., from PNC to Waypoint A, to Waypoint B, etc.

**G-1 Stack Pattern 2:** Basic Oklahoma City cloud air flight plan drawn for southerly winds (some in coordination with ER-2)



	Total Dis	tance (nm)	): 932.70	al ETE (m	in):	310.9	_	
WP	UTC Time	LAT	LON	ALT (ft)	SPD (kts)	HDG	Dist (nm)	ETE (min)
PNC	00.24.40	25 465	-97.110	2000	180.0	173.0	93.93	31.3
A	00.31.19	25 464	-97,194	2000	180.0	260.0	30.00	10.0
	00:41:19	35.101	-97.805	5000	180.0	spiral	12.00	4.0
В	00:45:19	35.101	-97.805	5000	180.0	80.0	30.00	10.0
A	00:55:19	35,105	-97.194	5000	180.0	spiral	12.00	4.0
A	00:59:19	35,105	-97.194	5000	180.0	260.0	30.00	10.0
В	01:09:18	35.101	-97.805	0000	180.0	spiral	12.00	4.0
в	01:15:18	35.101	-97.805	9000	180.0	80.0	30.00	10.0
A	01:23:18	35.165	-97.194	9000	180.0	359.8	31.51	10.5
C	01:33:49	35.683	-97.089	3000	180.0	260.5	40.00	13.3
D	01:47:09	35.683	-97.910	3000	180.0	spiral	12.00	4.0
D	01:51:09	35.683	-97.910	5000	180.0	80.5	40.00	13.3
C	02:04:29	35.683	-97.089	5000	180.0	spiral	12.00	4.0
С	02:08:29	35.683	-97.089	5000	180.0	260.5	40.00	13.3
D	02:21:49	35.683	-97.910	5000	180.0	spiral	12.00	4.0
D	02:25:49	35.683	-97.910	9000	180.0	80.5	40.00	13.3
С	02:39:09	35.683	-97.089	9000	180.0	350.4	10.00	3.3
E	02:42:29	35.850	-97.090	3000	180.0	260.6	40.10	13.4
F	02:55:51	35.851	-97.914	3000	180.0	spiral	12.00	4.0
F	02:59:51	35.851	-97.914	5000	180.0	80.6	40.10	13.4
E	03:13:13	35.850	-97.090	5000	180.0	spiral	12.00	4.0
E	03:17:13	35.850	-97.090	5000	180.0	260.6	40.10	13.4
F	03:30:35	35.851	-97.914	5000	180.0	spiral	12.00	4.0
F	03:34:35	35.851	-97.914	9000	180.0	80.6	40.10	13.4
E	03:47:57	35.850	-97.090	9000	180.0	350.4	10.10	3.4
G	03:51:19	36.018	-97.090	3000	180.0	260.3	40.00	13.3
н	04:04:39	36.016	-97.914	3000	180.0	spiral	12.00	4.0
Н	04:08:39	36.016	-97.914	5000	180.0	80.3	40.00	13.3
G	04:21:59	36.018	-97.090	5000	180.0	spiral	12.00	4.0
G	04:25:59	36.018	-97.090	5000	180.0	260.3	40.00	13.3
н	04:39:19	36.016	-97.914	5000	180.0	spiral	12.00	4.0
н	04:43:19	36.016	-97.914	9000	180.0	80.3	40.00	13.3
G	04:56:39	36.018	-97.090	9000	180.0	349.9	42.76	14.3
PNC	05:10:54	36.731	-97.100	1007		5.0.0		

# G-1 Stack Pattern 3. Basic Oklahoma City Clear Air Flight Plan.

The motivation for this flight is to make measurements within and above the mixing layer to serve as a baseline for assessing the role of clouds in transporting material through the top of the mixed layer. The requested flight pattern defines a set of transects to be made within and above the mixing layer at increasing distances downwind of OKC. Each stack will consist of one transect made at 3000 ft MSL and a second transect made above the convective boundary layer (generally this transect will be flown between 4000 and 7000 ft MSL). These altitudes may vary as we learn more about the mixing properties of the Oklahoma City plume.

This flight plan consists of one stack of low and high transects flown upwind of Oklahoma City and sets of stacks of low and high transects flown at increasing downwind distances from Oklahoma City. Each downwind flight leg will be approximately 40 nm long. We would like to fly the first downwind stack 14 nm downwind of the Will Rogers World Airport, and fly each subsequent stack 5 to 15 nm downwind of the previous stack. The pattern will consist of at least 5 downwind stacks, with the exact number determined by the endurance of the G-1. The upwind stack will be 30 nm long and will be flown approximately 14 nm upwind of the Will Rogers World Airport. The NASA King Air will fly a similar pattern above 25,000 ft MSL. G-1 waypoints are defined alphabetically, e.g., from PNC to Waypoint A, to Waypoint B., etc.

	Total Distance (nm):		812.75	Tota	Total ETE (min):		267.4		
	WP	UTC Time	LAT	LON	ALT (ft)	SPD (kts)	HDG	Dist (nm)	ETE (min)
	PNC	00:00:00	36.729	-97.110	1007	200.0	173.1	93.84	28.2
	A	00:28:09	35.167	-97.198	3000	180.0	260.6	30.00	10.0
CF FILE	В	00:38:09	35.167	-97.809	3000	180.0	spiral	12.00	4.0
	В	00:42:09	35.167	-97.809	4500	180.0	80.6	30.00	10.0
	A	00:52:09	35.167	-97.198	4500	180.0	0.2	31.54	10.5
	C	01:02:40	35.685	-97.089	3000	180.0	260.5	40.00	13.3
A THE REAL PROPERTY AND A REAL AND A	D	01:15:60	35.685	-97.910	3000	180.0	spiral	12.00	4.0
	D	01:19:60	35.685	-97.910	4500	180.0	80.5	40.00	13.3
	С	01:33:20	35.685	-97.089	4500	180.0	350.5	10.00	3.3
Contract and the second s	E	01:36:40	35.851	-97.090	3000	180.0	260.5	40.20	13.4
G G	F	01:50:04	35.851	-97.916	3000	180.0	spiral	12.00	4.0
The state of the s	F	01:54:04	35.851	-97.916	4500	180.0	80.5	40.20	13.4
	E	02:07:28	35.851	-97.090	4500	180.0	350.4	10.00	3.3
	G	02:10:48	36.018	-97.090	3000	180.0	260.5	40.10	13.4
	н	02:24:10	36.018	-97.916	3000	180.0	spiral	12.00	4.0
	Н	02:28:10	36.018	-97.916	4500	180.0	80.5	40.10	13.4
	G	02:41:32	36.018	-97.090	4500	180.0	350.4	10.00	3.3
	1	02:44:52	36.185	-97.090	3000	180.0	260.5	40.00	13.3
	J	02:58:12	36.185	-97.916	3000	180.0	spiral	12.00	4.0
	J	03:02:12	36.185	-97.916	4500	180.0	80.5	40.00	13.3
	1	03:15:32	36.185	-97.090	4500	180.0	350.4	10.00	33
	К	03:18:52	36.351	-97.090	3000	180.0	260.3	40.00	13.3
	L	03:32:12	36.350	-97.918	3000	180.0	spiral	12.00	4.0
	L	03:36:12	36.350	-97.918	4500	180.0	80.3	40.00	13.3
	K	03:49:32	36.351	-97.090	4500	180.0	350 /	10.00	3.3
书: 是你了是不可一些了这些意志了	M	03:52:52	36.518	-97.090	3000	180.0	260.9	40.00	13.3
	N	04:06:12	36.521	-97.920	3000	180.0	sniral	12.00	4.0
四方で大きたは、「「「「「「「「「「「「」」」」で、「「「「」」」」で、「「」」」」で、「「」」」」で、「」」」で、「」」」で、「」」」で、「」」」で、「」」」で、「」」」で、「」」」で、「」」」で、「	Ν	04:10:12	36.521	-97.920	4500	180.0	80.8	40.00	13.3
	М	04:23:32	36.518	-97.090	4500	200.0	348.5	12.76	3.9
	PNC	04:27:22	36.731	-97.100	1007	200.0	540.5	12.10	5.0

G-1 Stack Pattern 3: Basic Oklahoma City clear air flight plan (drawn for southerly winds)

# G-1 Generic Cloud Sampling Flight Plan

This is a generic flight plan to allow cloud sampling within a 200 nm region centered around Ponca City. It would consist of a flight along a radial from Ponca City to cloudy regions identified from satellite pictures. This pattern will be closely coordinated with the Cessna 206 and the CIRPAS Twin Otter. As we approach region, we would request that the G-1 descend and start an upward climb to allow the scientist/pilots to identify the height of cloud base and cloud top. At the specified distance, a set of four transects would be made, each on top of the other.

- 1. A low transect just below cloud base
- 2. A medium altitude transect, half way between cloud top and cloud base during which our AMS would sample through the isokinetic inlet
- 3. A second medium altitude transect half way between cloud top and cloud base during which our AMS would sample through the CVI inlet. And
- 4. A transect at cloud top

A repeat of these transects would be done, and the G-1 would then return to Ponca City. G-1 waypoints are defined alphabetically, e.g., from PNC to Waypoint A, to Waypoint B, etc.

The King Air will perform a series of coincident level legs transects above (~25,000 ft AGL) the locations of the G-1 transects

**G-1 Pattern 4:** Generic cloud sampling flight plan (away from Oklahoma City). Cloud fields assumed to be ENE of Oklahoma City.



	Total Dis	tance (nm)	: 935.82	Tota	al ETE (m	in): 📑	294.5		
WP	UTC Time	LAT	LON	ALT (ft)	SPD (kts)	HDG	Dist (nm)	ETE (min)	
	00:00:00	30.731	-97.100	1007	200.0	54.2	124.86	37.5	
A	00:57:27	37.054	-94.759	3000	180.0	80.8	40.17	13.4	
в	00:50:51	37.650	-93.913	3000	180.0	spiral	13.33	4.4	
В	00:55:18	37.650	-93.913	5000	180.0	260.8	40.17	13.4	
Α	01:08:41	37.654	-94.759 5000		180.0	spiral	13.33	4.4	
Α	01:13:08	37.654	-94.759	5000	180.0	80.8	40.17	13.4	
В	01:26:31	37.650	-93.913	5000	180.0	sniral	13 33	4.4	
В	01:30:58	37.650	-93.913	8000	100.0	260.0	40.47	42.4	
Α	01:44:21	37.654	-94.759	8000	100.0	200.0	40.17	13.4	
Α	01:48:21	37.654	-94.759	3000	180.0	spiral	12.00	4.0	
в	02:01:44	37.650	-93.913	3000	180.0	80.8	40.17	13.4	
в	02:06:10	37.650	-93.913	5000	180.0	spiral	13.28	4.4	
Δ	02.19.33	37 654	-94 759	5000	180.0	260.8	40.17	13.4	
	02:23:50	37.654	04 750	5000	180.0	spiral	13.28	4.4	
	02:23:33	37.650	03.043	5000	180.0	80.8	40.17	13.4	
	02.31.22	37.050	-93.913	0000	180.0	spiral	13.28	4.4	
в	02:41:48	37.650	-93.913	8000	180.0	260.8	40.17	13.4	
Α	02:55:11	37.654	-94.759	8000	200.0	234.2	124.86	37.5	
PNC	03:32:39 36.731 -97.100		1007	<u> </u>					

# G-1 A-Train Underflights.

Total Distance (nm):

LAT

36.731

36.704

36,495

36.105

36.105

36.495

36.704

36.990

37.303

37,303

36,990

36,704

36.731

WP UTC Time

PC 19:11:00

B 19:22:32

A 19:30:32

A 19:34:32

B 19:42:33

D 19:52:46

E 19:59:10

F 20:03:10

D 20:09:34

PC 20:21:16

С 20:15:29

19:46:51 С

С 19:18:14

This flight pattern will require coordination with the overpass of the NASA A-Train satellites. The pattern would consist of a ferry flight, up to 60 nm from Ponca City. This pattern will be coordinated with the NASA King Air, CIRPAS Twin Otter, and Cessna 206. In clear and overcast conditions the aircraft will fly in a stacked pattern with the G-1 flying between 10.000 and 12.000 ft MSL along the satellite track. In cases with shallow clouds G-1 and the CIRPAS Twin Otter will fly within the clouds, but at different altitudes, with the G-1 near cloud top and the Twin Otter near cloud base (see second pattern). The patterns that are shown are for the satellite overpass on 12 June 2007, 19:46:51 UTC. G-1 waypoints are defined alphabetically, e.g., from PNC to Waypoint A, to Waypoint B., etc.

G-1 Pattern 5A: A-Train under flights, overcast conditions. 2007-06-12 19:46

210.31

LON

-97.100

-96.700

-96.643

-96.525

-96.525

96.643

-96.700

-96.798

-96.878

-96.878

-96.798

-96.700

-97.100

1 und 7-06-	er fligh 12 19:	nts, c :46:5	lear or 1				CHAR H	いないない		0	I I	V Test	the second	
Tota	al ETE (m	in):	70.3		2	2	SA			13	1	-	-	14
ALT (ft)	SPD (kts)	HDG	Dist (nm)	ETE (min)	The second	100	2	4			I	5] -		5
1007	160.0	88.7	19.27	7.2		-		101	TP /s	HA		-5		
10000	180.0	161.6	12.89	4.3		6		=	1	SET.		P	KI	
10000	180.0	160.3	24.04	8.0	175	1	L.E.P	TACK	日日日	1	TAIL	EL.	R	2
10000	180.0	spiral	12.0	4.0	-	20	20			PC	Tell -	C	A	57
12000	180.0	340.3	24.04	8.0	1	Ala !	4	18.9	34 92	192	10	1	100	
12000	180.0	341.6	12.89	4.3			CF	LAA.	Since	2	0	1	14-	- m
12000	180.0	338.8	17.76	5.9			300	11-1	F	P	Sin	21	в	1
12000	180.0	342.5	19.19	6.4	34	1	F.P	TA	SIL	the second	PA:	7.	- 23	1
12000	180.0	spiral	12.0	4.0	1 the	25.5	20	R. lo			10	N.	ATT:	100
10000	180.0	162.5	19.19	6.4			9249	1415	24	I.C.	12.2	-13	C.P.	3.
10000	180.0	158.8	17.76	5.9	512	100	"SA	ALC: NO		1 mar	RC :	DA		
10000	200.0	268.7	19.27	5.8	3	the second	SP. F	705	P.C.F.	R.	*	210	1000	and a
1007					54	1106	11/1	- Call	E L	222	10	Territ .	A A	No.
					T		MT.	科	X				9	

G-1 Pattern 5B: A-Train under flights, broken clouds conditions. 2007-06-12 19:46:51

	Total Dis	tance (nm)	): 253.52	Tota	al ETE (m	in):	84.5		60
MD	LITC Time	LAT	LON	ALT (ft)	SDD (kte)	HDG	Dist (nm)	ETE (min)	(the state
	10:06:36	36 729	97 110	1007	3FD (Kt3)	nbu	Dist (iiiii)		
H-	10:00:00	36 405	-57.110	6000	180.0	137.0	46.88	15.6	横广于
LA A	19:22:14	30.105	-90.525	0000	180.0	340.3	24.04	8.0	No.
в	19:30:14	36.495	-96.643	6000	180.0	341.6	12.89	4.3	the feature
C	19:34:32	36.704	-96.700	6000	180.0	338.8	17.76	5.9	CA
D	19:40:27	36.990	-96.798	6000	180.0	342.5	19 19	64	DX Y
E	19:46:51	37.303	-96.878	6000	190.0	eniral	12.00	4.0	1-3
E	19:50:51	37.303	-96.878	8000	100.0	Aco c	12.00	4.0	
D	19:57:15	36.990	-96.798	8000	180.0	102.5	19.19	0.4	NE
c	20:03:10	36.704	-96,700	8000	180.0	158.8	17.76	5.9	The
B	20:07:28	36.495	-96.643	8000	180.0	161.6	12.89	4.3	- A
	20:15:20	36 105	06.525	0000	180.0	160.3	24.04	8.0	DA
	20.15.29	30.103	-90.323	4007	180.0	317.0	46.88	15.6	CT
PC	20:31:06	30.729	-97.110	1007			1		Cr I
								11-9 3	
								11-52	1
								10	ter 1
								设计之处	-1
								新日子	
									11
									17
									1/1

#### **G-1 Instrument Intercomparison**

This pattern was developed to allow us to compare measurements from similar instrument systems on the G-1, CIRPAS Twin Otter, and the Cessna Turbo 206. The three aircraft will leave Ponce City in sequence, with the Cessna leaving first and the G-1 leaving last. The aircraft will proceed to waypoint A, where each will turn and fly at an altitude of 4000 ft MSL towards waypoint D. As the aircraft proceed along the leg running from waypoints A to D, the Twin Otter will pass the Cessna. The G-1 will pass the Cessna and Twin Otter near waypoints B and waypoint C, respectively. All three aircraft will proceed to point D. After passing that point the Cessna will return to Ponca City, while the G-1 and Twin Otter will climb for a pass through the clouds. The G-1 will return through waypoint D and fly to waypoint A ahead of the Twin Otter. After reaching waypoint A, the G-1 will climb above the clouds and wait for the Twin Otter to pass through point A. The Twin Otter will start the above cloud leg first and be passed by the G-1 near waypoint C. After passing waypoint D, both aircraft will return to Ponca City.

(The Be-200 King Air will probably not participate in this intercomparison because of the different nature of the instruments on this aircraft relative to those of the Twin Otter and G-1).

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G-1 Pattern 6: Aircraft intercomparison (drawn for southerly winds)