

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7	8			
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat. Long.	CO ₂ Concentration (ppm)			
Lark I	NAG	<u>1958</u> Apr.	6	1658	500	41.0 125.0	314.1			
				1740		42.9 127.1	314.3			
		1903		46.9 131.5		314.2				
		1940		48.8 133.8		314.3				
		2108		52.7 138.6		314.6				
		2152		54.7 141.3		315.4				
		2318		49.7 141.8		313.8				
		7	0003	47.2 142.1	315.9					
			0126	42.2 142.6	316.7					
			0200	42.0 139.2	314.7					
			0315	41.5 132.6	314.9					
			Lark I	NAG	Apr.	12	1710	500	41.0 125.0	313.8
							1742		42.9 127.1	314.0
					1901		46.9 131.5		315.5	
					1933		48.8 133.8		314.9	
2046	52.7 138.6	315.9								
2120	54.7 141.3	317.1								
2322	49.7 141.8	315.4								
2318	47.2 142.1	314.1								
13	0023	42.2 142.6			314.6					
	0050	42.0 139.2			314.0					
	0157	41.5 132.6			316.7					
	0235	41.3 129.3			316.6					

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Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)			
Stork A	NAG	<u>1958</u> Jun.	8	1730	500	40.9	127.3	314.6			
				1810		41.5	129.7	315.6			
		1858		42.2		133.0	314.6				
		1933		43.0		136.2	314.9				
		2055		44.4		142.8	315.4				
		2135		45.2		146.2	313.5				
		2217		46.0		149.6	314.9				
		2347		47.5		156.5	315.4				
		9	0032	48.3	160.0	315.4					
			0151	53.0	162.9	315.7					
			0305	57.6	166.2	316.4					
			0344	59.6	163.3	315.3					
			Stork B	NAG	Jun.	11	2001	500	55.1	154.7	316.3
							2046		52.8	156.5	314.9
2220	48.3	160.0					315.8				
2253	47.5	156.5					313.5				
2327	46.8	153.0					314.3				
2358	46.0	149.6					313.6				
12	0031	45.2					146.2		314.6		
	0104	44.4					142.8		313.0		
	0209	43.0				136.2	314.9				
	0241	42.2				133.0	319.0*				
	0315	41.5	129.7	327.6*							

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Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)
Ptarmigan	SMJ	1958 Sept.	29	0130	500	84.9	164.5	308.3
				0145		85.9	166.2	309.9
				0205		85.9	144.4	307.6
				0218		85.6	132.1	312.1*
				0243		84.8	115.7	309.3
				0257		85.6	132.1	307.4
				0416		86.3	135.0	307.4
				0548		83.5	161.5	307.9
				0626		81.0	159.5	309.9
				0710		78.5	158.3	306.7
				0753		76.0	157.5	306.5
				0826		73.5	157.0	307.8
				Stork C		HAY	Sept.	29
2242	52.8	162.2	308.2					
2328	50.4	161.1	309.5					
30	0012	48.0	160.0		310.9			
	0042	48.0	156.3		310.5			
	0109	48.0	152.6		-			
	0137	48.0	148.9		309.2			
	0212	48.0	145.1		-			
	0246	48.0	141.4		308.4			
	0321	48.0	137.7		317.0*			
	0354	48.0	133.9		309.0			
	0429	48.0	130.2		309.4			

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Col: 1	2	3	4	5	6	7		8			
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)			
Stork C	HAY	<u>1958</u> Oct.	24	2141	500	52.8	162.3	310.6			
				2221		50.4	161.1	310.2			
				2303		48.0	160.0	311.3			
				2333		48.0	156.3	316.9*			
			25	0001		48.0	152.6	313.1*			
				0034		48.0	148.8	311.3			
				0107		48.0	145.1	311.4			
				0137		48.0	141.4	310.6			
				0213		48.0	137.7	310.3			
				0253		48.0	133.9	310.3			
				0327		48.0	130.2	310.5			
		Stork S	SMJ	Nov.		1	1730	500	65.8	143.5	314.8
							1830		67.7	134.4	314.2
1930	69.2				122.8		311.9				
2030	69.9				110.1		313.6				
2130	68.9				101.3		-				
2230	65.3				105.3		311.0				
2330	61.7				108.6		310.6				
0030	59.9				107.3		-				
2	0130				58.2	108.6	310.6				
	0230				55.3	112.0	310.6				
	0330				52.3	116.0	311.1				
	0430				49.9	119.6	310.3				

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Col: 1	2	3	4	5	6	7		8							
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)							
Petralark F	CAR	<u>1958</u>			500	40.9	124.1	312.2							
		Dec.	28						1716	40.8	127.3	316.6*			
									1759	40.6	132.2	312.5			
									1907	40.5	137.1	312.7			
									2026	40.3	142.0	312.7			
									2130	40.6	146.9	313.1			
									2244	38.7	150.4	313.1			
									29	0005	35.0	150.7	316.6*		
		0120	31.0						151.1	313.1					
		0235	27.6						151.5	312.5					
		0244	25.3						154.7	312.5					
		0455													
		Petralark F	FUK						<u>1959</u>			500	40.9	124.1	313.7
									Jan.	7					
1800	40.8			132.5	313.4										
1920	40.5			137.1	314.2										
2035	40.1			142.1	313.1										
2155	40.1			146.9	313.1										
2306	38.9			150.3	313.4										
8	0015			35.0	150.7	313.8									
0116	31.1			151.1	313.8										
0215	27.6			151.5	313.1										
0312	25.0			155.0	313.1										
0430	23.0			158.0	313.0										
0529															

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Col: 1	2	3	4	5	6	7		8				
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)				
Stork C	PER	<u>1959</u> Jan.	7	1948	500	55.9	163.8	313.0				
				2027		52.8	162.3	312.8				
				2054		50.4	161.1	313.3				
				2121		48.0	160.0	312.8				
				2200		48.0	156.3	312.6				
				2242		48.0	152.6	313.0				
				2322		48.0	148.8	-				
			8	0002	48.0	145.1	312.7					
				0037	48.0	141.4	314.7*					
				0117	48.0	137.7	316.7*					
				0156	48.0	133.9	316.7*					
				0235	48.0	130.2	317.9*					
				Stork C	---	Feb.	7	0038	500	55.9	163.8	315.4
								0134		52.8	162.3	315.0
								0220		50.4	161.1	314.0
0300	48.8	160.0	313.2									
0336	48.0	156.3	313.0									
0413	48.0	152.6	313.8									
0444	48.0	148.8	313.8									
0517	48.0	145.1	314.1									
0559	48.0	141.4	314.0									
0626	48.0	137.7	314.2									
0708	48.0	133.9	314.4									
0745	48.0	130.2	313.8									

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Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)
Stork C	HAY	<u>1959</u>	17	0325	500	56.1	164.2	322.1*
		Apr.		0433		52.8	162.3	322.4*
				0519		50.4	161.1	316.9
				0604		48.0	160.0	317.6
				0646		48.0	156.3	326.1*
				0729		48.0	152.6	316.7
				0812		48.0	148.8	315.9
				0855		48.0	145.1	317.8
				0932		48.0	141.4	316.3
				1009		48.0	137.7	316.5
				1044		48.0	133.9	316.0
				1110		48.0	130.2	316.0
Ptarmigan	HAN	Apr.	17	0220	500	84.5	163.0	317.5
				0242		85.9	166.2	316.7
				0315		85.6	132.1	316.3
				0340		84.4	114.0	316.4
				0410		83.2	115.2	316.1
				0432		82.2	122.3	316.6
				0500		80.3	129.2	316.6
				0530		78.4	133.2	317.8
				0600		76.6	136.4	317.0
				0630		75.1	139.3	317.2
				0700		73.1	140.6	317.3
				0730		71.3	142.2	315.2

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Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)		
Petralark F	MOS	1959 Apr.	17	2036	500	26.0	153.7	316.7		
				2107		27.6	151.5	317.0		
		2142		30.0		151.2	318.0			
		2219		32.5		151.0	317.3			
		2256		35.0		150.7	316.9			
		2335		37.5		150.5	316.8			
		18		0011		40.0	150.2	316.6		
			0046	40.1	146.9	316.9				
			0124	40.2	143.7	316.7				
			0239	40.5	137.1	317.0				
			0317	40.6	133.9	315.9				
			0433	40.8	127.3	316.6				
			Lark	MOS	May	20	2035	500	40.3	140.5
		2114					40.1		143.8	318.0
2156	40.0	147.1					319.1			
2238	39.9	150.3					317.2			
2321	37.4	150.6					317.1			
21	0009	34.9				150.8	317.3			
	0054	32.4				151.0	317.5			
	0136	29.9				151.2	317.9			
	0214	27.4				151.3	317.8			
	0254	26.0				153.6	322.8*			
	0339	24.5				155.8	317.5			

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Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)				
Stork G	POL	<u>1959</u> May	20	2320	500	48.4	156.6	317.5				
				2358		43.9	157.8	317.3				
		21	0032	44.9		155.4	317.7					
			0107	45.8		151.1	317.2					
			0142	46.7		147.8	317.0					
			0218	47.7		144.4	316.7					
			0254	48.6		141.4	317.3					
			0328	45.9		137.5	317.2					
			0404	47.8		134.7	317.2					
			0439	46.2		132.0	316.6					
			0511	44.5		129.3	316.9					
			0546	42.8		126.8	317.4					
			Loon H***	HAR		May	22	0508	500	55.0	163.0	317.4
								0557		57.5	163.0	317.1

***Four more samples were run, and found to be grossly contaminated. No record was kept of the condition of the remaining six flasks.

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Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)				
Loon H	HAY	<u>1959</u> Jun.	20	2200	500	32.5	163.0	316.6				
				2242		35.0	163.0	313.3				
		21	2321	500	37.5	163.0	314.6					
			0016		40.0	163.0	315.8					
			0056		42.5	163.0	314.2					
			0137		45.0	163.0	314.4					
			0228		47.5	163.0	314.6					
			0309		50.0	163.0	314.4					
			0351		52.5	163.0	314.8					
			0433		55.0	163.0	314.2					
			0517		57.5	163.0	313.1					
			0559		60.0	162.4	313.9					
			Stork G		FUK	Jun.	20	1706	700	63.8	149.0	314.2
								1800		60.8	150.0	314.2
1915	56.4	150.8		314.4								
2030	51.9	153.1		314.0								
2145	47.6	155.4		314.4								
2243	46.3	156.3		314.0								
21	0001	45.8		151.1				313.7				
0112	47.7	140.4		315.0								
0222	49.5	137.5		314.6								
0339	46.2	132.0		313.4								
0456	42.8	126.8		316.3*								
0603	40.1	122.2		316.9*								

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Col: 1	2	3	4	5	6	7		8		
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)		
Lark	STR	1959 Jun.	20	1500	700	40.6	125.2	318.0*		
				1600		40.4	129.5	315.2		
		1700		40.4		133.5	316.0			
		1750		40.2		137.1	315.8			
		1900		500		40.1	142.1	318.0		
		2000				40.0	146.1	317.7		
		2100				39.4	150.2	317.0		
		2210				36.0	150.4	319.3		
		21		2300		32.4	150.6	318.6		
				0000		29.4	151.2	318.0		
			0100	26.2	152.5	318.6				
				20.1	155.6	318.0				
		Stork G	HAR	Jul.	18	1552	500	42.8	126.8	315.4
						1629		44.5	129.3	315.9
1710	46.2					132.0		319.4*		
1748	47.8					134.7		313.8		
1826	49.5					137.5		315.1		
1920	48.6					141.0		325.9*		
2003	47.7					144.4		315.3		
2113	49.0					149.4		312.7		
2223	53.3					152.6		310.8		

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Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)
Ptarmigan	FUK	<u>1959</u> Aug.	23	1940	700	66.9	151.5	307.6
				2340		80.3	158.0	308.2
		24	0025	500	83.2	160.0	307.9	
			0108		85.9	166.2	309.2	
			0142		85.8	132.1	308.0	
			0217		84.2	108.7	308.4	
			0300		82.4	122.8	307.7	
			0345		79.1	133.5	308.2	
			0430		76.2	138.2	307.8	
			0515		73.6	141.0	309.6	
			0600		70.8	143.0	307.2	
			0645		68.0	145.2	307.0	
Stork I	FUK	Aug.	25	1745	500	61.8	150.0	309.0
				2009		53.5	152.0	311.9
				2109		49.7	152.0	311.5
				2203		46.0	152.0	311.9
				2253		47.7	147.8	311.5
				2347		49.2	143.5	309.7
				26		0040	51.0	138.9
			0125		48.4	135.6	309.7	
			0210		45.8	132.3	311.5	
			0305		43.3	129.5	311.1	
			0405		41.1	125.4	310.2	

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Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)	
Lark V	FUK	1959 Sept.	28	1310	500	37.4	123.4	311.1	
				1350		36.0	126.0	311.3	
				1430		34.4	128.6	311.7	
				1515		32.6	131.7	310.6	
				1600		31.2	135.2	311.1	
				1645		29.8	138.6	311.2	
				1800		300	27.1	144.2	311.3
				1835			26.0	147.3	311.7
				1910			25.1	149.8	312.8
				1950			23.9	152.6	314.2*
				2040			22.1	155.8	-
Ptarmigan	SHA	Sept.	30	0118	500	85.9	166.2	310.2	
				0136		85.8	149.1	309.8	
				0156		85.6	132.1	310.6	
				0213		84.9	120.0	309.4	
				0230		84.2	108.7	310.3	
				0245		83.2	114.0	310.2	
				0303		82.2	122.3	310.2	
				0336		80.1	130.2	310.7	
				0415		77.8	135.3	310.3	
				0453		75.3	138.8	310.5	
				0532		73.0	141.3	310.7	
				0620		70.1	143.6	311.1	

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Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)				
Loon H	FUK	1959 Oct.	1	1925	700	23.0	158.0	311.0				
				2020		24.4	161.0	310.9				
				2115		26.9	163.0	388.1*				
				2210	500	30.0	163.0	311.1				
				2258		33.7	162.9	310.5				
				2354		37.5	163.0	311.1				
				2		0052	41.2	163.0	311.2			
						0153	45.0	163.0	312.4			
						0300	48.8	163.0	314.1			
					0400	52.5	163.0	314.3				
				0510	56.2	163.0	314.1					
				0624	60.0	162.4	311.2					
				Stork I	SHA	Oct.	2	1847	500	58.0	149.5	311.2
								2004		53.5	152.0	310.9
								2041		51.0	152.0	310.3
2118	48.5	152.0	310.7									
2154	46.0	152.0	310.7									
2221	47.3	148.8	311.3									
2257	48.5	145.6	311.3									
2329***	49.7	142.4	-									
3	0034	49.1	136.4					310.3				
	0109	47.2	134.0					311.0				
	0146	45.2	131.7					311.1				
	0222	43.3	129.5					310.7				

***Samples at 2257 and 2329 were combined to yield a single analysis.

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Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)					
Lark U	STR	<u>1959</u> Oct.	20	1745	700	40.9	125.1	312.7					
				1845		40.9	129.2	315.9*					
				1943		40.8	133.2	316.2*					
				2042		40.5	136.6	315.9*					
				2146		500	40.3	140.0	315.9*				
				2244			40.1	144.8	318.8*				
				2347			40.0	148.7	-				
				21		0037	38.1	150.4	319.9*				
						0148	34.0	150.8	318.1*				
						0243	30.5	151.3	312.7				
						0343	26.8	152.4	326.9*				
						0444	24.3	156.1	316.0*				
				Ptarmigan		SHA	Oct.	22	0047	500	85.9	166.2	313.8*
									0109		85.7	149.2	314.2*
									0128		85.6	137.1	335.7*
0150	84.9	120.4	316.5*										
0209	84.2	108.7	317.4*										
0235	83.2	115.4	-										
0259	82.2	122.3	-										
0338	80.1	130.2	360.4*										
0419	77.8	135.3	316.5*										
0502	75.3	138.8	318.4*										
0540	73.0	141.3	312.3										
0626	70.1	143.6	312.1										

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8				
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)				
Stork I	SHA	<u>1959</u>	23	1854	500	58.0	149.5	311.7				
		Oct.		2013		53.5	152.0	312.4				
		2054		51.0		152.0	312.7					
		2213		46.0		152.0	312.2					
		2320		48.5		145.6	317.5*					
		24		0028		51.0	138.9	313.1				
		0111		49.1		136.4	312.5					
		0150		47.2		134.0	311.7					
		0231		45.2		131.7	311.4					
		0310		43.3		129.5	311.4					
		0349		41.4		127.3	311.7					
		Loon H		STR		Oct.	24	1819	700	22.7	158.0	316.0*
								1914		24.2	160.4	311.5
2015	26.8		162.8		314.7*							
2115	500		30.4		162.9			317.8*				
2215	33.9		162.8		314.6*							
2312	37.1		162.6		314.6*							
25	0013		40.5		162.8			316.2*				
0113	43.8		163.0		315.4*							
0212	47.1		162.8		315.7*							
0315	50.9		162.9		312.1							
0420	52.2		163.0		318.9*							
0513	58.5		162.8		319.0*							

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8			
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)			
Ptarmigan	FUK	1959 Nov.	24	1932	700	66.8	153.6	314.5			
				2010		69.4	152.2	313.9			
				2052		71.3	156.6	315.0			
				2211		76.0	157.5	315.0			
				2329		81.0	159.5	315.3			
				0042		500	85.9	166.2	314.6		
			0202	84.2	108.7		313.0				
			0317	80.1	130.2		314.6				
			0446	75.3	138.8		315.0				
			0635	70.1	143.6		314.0				
			0712	68.2	145.5		314.0				
			Stork I	FUK	Nov.		26	1833	500	59.7	151.5
						1937		57.0		150.8	313.4
2051	53.5	152.0				314.0					
2200	49.8	152.0				313.9					
2310	48.5	152.0				313.7					
0020	27	47.8				147.4		314.4			
0113		49.7				142.4	312.8				
0146		51.0				138.9	313.2				
0303		48.0				135.2	312.3				
0415		45.2				131.7	312.8				
0520		42.0				128.4	312.3				
0600		41.2				125.6	312.3				

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)
Loon H	FRE	1959 Nov.	26	1929	700	24.5	161.8	313.0
				2138	500	31.2	163.0	315.2*
		2215			33.7	163.0	312.3	
		2255			36.2	163.0	312.7	
		2335			38.7	163.0	313.0	
		27	0045		42.5	163.0	323.1*	
			0135		46.2	163.0	313.2	
			0215		48.7	163.0	314.5	
			0300		51.2	163.0	317.0 ←	
Lark U	BOR	Dec.	17	1730	700	40.8	127.5	333.9*
				1844		40.6	132.3	315.8
				1953		40.4	137.2	314.9
				2054	500	40.3	140.5	314.9
				2144		40.1	143.8	312.9
				2307		40.0	148.7	313.1
			18	0015		37.4	150.6	313.5
				0059		34.9	150.8	313.1
				0203		31.2	151.1	313.6
				0303		27.4	151.3	314.9
				0345		26.0	153.6	313.8
				0450		23.7	156.9	314.0

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8		
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Lat.	Long.	CO ₂ Concentration (ppm)		
Ptarmigan	BRE	1959 Dec.	17	2052	700	71.3	156.6	316.0		
				2216		76.0	157.5	315.5		
		18	2339	500	81.0	159.5	316.4			
			0054		85.9	166.2	314.5			
			0128		85.6	132.1	316.6			
			0202		84.2	108.7	316.4			
			0242		82.2	122.3	315.0			
			0327		80.1	130.2	315.4			
			0415		77.8	135.3	315.5			
			0502		75.3	138.8	316.8			
			0546		73.0	141.3	313.6			
			0641		70.1	143.6	332.5*			
		Stork I	BRE	Dec.	19	1912	500	58.0	149.5	314.3
						1954		56.0	152.0	314.1
2038	53.5					152.0		314.1		
2119	51.0					152.0		314.3		
2158	48.5					152.0		315.3		
2240	46.0					152.0		313.8		
2343	48.5					145.6		314.1		
20	0049				51.0	138.9	339.6*			
	0123				49.1	136.4	313.7			
	0159				47.2	134.0	314.0			
	0232				45.2	131.7	313.6			
	0352				41.4	127.3	313.7			

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8			
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)			
Loon H	BOR	<u>1959</u> Dec.	19	1829	700	23.0	158.0	315.8			
				1928		24.5	161.7	315.1			
						2033		27.5	163.0	313.3	
						2116	500	30.0	163.0	314.5	
						2222		33.7	163.0	314.0	
						2311		37.5	163.0	314.0	
				20		0014		41.2	163.0	314.9	
					0108		45.0	163.0	314.5		
					0210		48.7	163.0	315.8		
					0319		52.5	163.0	315.9		
					0428		56.2	163.0	316.8		
					0542		60.0	162.4	316.0		
		Ptarmigan	POL		<u>1960</u> Jan.	20	2200	500	68.9	144.6	315.8
						21	0300		71.7	142.3	315.5
					0400		76.0	138.0	314.3		
					0500		79.8	130.7	314.2		
					0700		85.6	125.0	316.2		
					0751		85.9	166.2	315.6		
					0900	700	81.4	161.3	315.8		
					1000		77.8	158.0	316.7		
					1100		74.2	157.0	317.3		
					1147		71.3	156.6	315.5		
					1210	500	70.2	154.2	316.4		

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8		
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)		
Lark U	SHA	1960 Jan.	22	1949	700	40.5	134.0	315.8		
				2037	500	40.3	140.5	315.6		
		2114			40.1	143.8	316.4			
		2155			40.0	147.1	314.5			
		2312			37.4	150.6	314.7			
		2348			34.9	150.8	315.1			
		0025		23	32.4	151.0	314.8			
		0100	29.9		151.2	315.5				
		0138	27.4		151.3	316.1				
		0212	26.0		153.6	315.9				
		0250	24.5		155.8	316.4				
		0333	23.0		158.0	315.5				
		1800	POL		Jan.	22	1800	500	61.0	150.2
		1900					58.0	149.5	315.3	
2000		54.2		152.0			315.3			
2100		50.6		152.1			315.3			
2200		46.6		152.0			315.1			
2300		47.6		148.5			314.8			
0000	23	49.6		143.1			314.9			
0100		50.4		138.2		315.6				
0200		47.5		134.3		315.5				
0248		45.2		131.7		315.9				
0325		43.3		129.5		314.5				
0402		41.4		127.3		314.5				

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8		
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)		
Loon H	SHA	<u>1960</u> Jan.	27	1958	700	24.0	160.5	314.5		
				2122		27.5	163.0	315.5		
						2251	500	32.5	163.0	314.9
						2330		35.0	163.0	316.4
					28	0008		37.5	163.0	316.9
						0050		40.0	163.0	317.5
						0127		42.5	163.0	319.6
						0205		45.0	163.0	319.9
						0240		47.5	163.0	318.5
						0316		50.0	163.0	319.3
						0354		52.5	163.0	316.9
						0432		55.0	163.0	316.8

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8		
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)		
Stork	COM	<u>1960</u> Feb.	19	1912	500	43.3	129.5	315.1		
				2041		47.2	134.0	315.1		
		2124	49.1	136.4	315.0					
		2256	49.7	142.4	314.8					
		2353	48.5	145.6	315.1					
		20	0050	47.3	148.8	317.4*				
			0222	48.5	152.0	315.0				
			0305	51.0	152.0	315.0				
			0433	56.0	152.0	315.8				
			0515	58.0	149.5	315.6				
			0548	59.7	151.6	315.5				
			0916	61.2	149.8	315.9				
			Lark U	COR	Feb.	21	2147	500	40.3	140.5
		2220					40.1		143.8	315.1
		2255			40.0	147.1	315.3			
2326	39.9	150.3			316.7					
22	0008	37.4			150.6	316.3				
	0048	34.9			150.8	314.8				
	0128	32.4			151.0	314.9				
	0205	29.9			151.2	315.1				
	0243	27.4			151.3	314.8				
	0322	26.0			153.6	314.6				
	0403	24.5			155.8	315.1				
	0443	23.0			158.0	314.7				

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8				
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)				
Ptarmigan	COM	<u>1960</u> Feb.	24	2000	700	68.4	152.0	316.2				
				2100		72.0	157.8	316.1				
		2200		76.0		157.5	316.7					
		2300		80.0		159.5	318.5					
		25	0000	500	83.9	161.7	317.4					
			0100		85.0	136.0	315.5					
			0200		82.9	118.4	316.2					
			0300		79.4	130.7	317.4					
			0400		76.0	135.0	316.2					
			0430		74.1	139.9	315.9					
			0500		72.2	142.2	314.8					
			0600		68.7	145.0	316.7					
			Stork J		WIL	Apr.	5	1554	500	39.8	126.0	316.4
								1627		41.7	127.9	315.9
1702	43.7	130.0		317.6								
1739	45.7	132.1		316.8								
1816	47.7	134.3		316.8								
1853	49.7	136.6		316.7								
2022	47.7	143.3		316.8								
2203	45.5	150.0		318.6								
2258	50.5	150.0		316.8								
6	0004	55.5		150.0				316.4				
	0100	59.7		151.5				317.2				
	0125	61.3		149.8				318.9				

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)
Lark V	HUB	1960 Apr.	7	1700	500	36.0	126.0	320.9*
				1730		34.5	129.0	317.0
		1810		33.3	131.0	316.4		
		1840		32.5	132.5	319.4		
		1930		31.3	135.0	317.2		
		2015		30.0	137.8	318.9		
		2105		300	29.0	140.5	316.6	
		2140			28.0	142.5	316.7	
		2215			27.0	145.0	317.2	
		2250			26.0	148.0	317.2	
		2320			25.0	150.3	320.1*	
		2355			23.5	153.0	320.3*	
		Loon K		HUB	Apr.	8	1900	700
1940	19.0		152.0				315.5	
2030	17.5		149.0				315.5	
2120	16.5		150.5				315.9	
2220	15.0		154.0				316.9	
2315	14.5		156.5				316.0	
0005	15.5		159.5				317.0	
9	0100		14.5			162.5	315.7	
	0155		12.0			166.0	315.2	
	0245		15.0			166.0	315.2	
	0340		18.0			165.0	319.6*	
	0435		20.0			162.0	319.6*	

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8				
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)				
Ptarmigan	WIL	<u>1960</u> Apr.	8	1945	700	66.9	150.7	317.3				
				2101		70.6	159.9	316.8				
		2222		75.6		159.9	316.2					
		2345		80.6		159.9	317.6					
		0026		83.1		159.9	-					
		9	0104	500	85.6	159.9	316.8					
			0214		81.6	132.0	316.7					
			0248		79.3	126.7	318.2					
			0329		77.2	132.9	318.8					
			0446		72.6	140.8	316.6					
			0537		70.1	143.6	317.2					
			0608		68.1	145.5	316.7					
			Stork J		SKI	Jun.	3	1640	500	41.7	127.9	318.3
								1717		43.7	130.0	318.1
1759	45.7	132.1		318.4								
1847	47.7	134.3		318.2								
2005	48.7	139.9		320.6								
2133	46.6	146.7		317.8								
2207	45.5	150.0		317.8								
2248	48.0	150.0		318.6								
2327	50.5	150.0		317.8								
4	0008	53.0		150.0				317.3				
	0050	55.5		150.0				317.0				
	0128	58.0		150.0				317.2				

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8					
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Lat.	Long.	CO ₂ Concentration (ppm)					
Stork J	SKI	<u>1960</u> Jun.	17	1636	500	41.7	127.9	-					
				1718		43.7	130.0	314.8					
		1800		45.7		132.1	315.0						
		1840		47.7		134.3	315.1						
		2010		48.7		139.9	316.2						
		2057		47.7		143.3	326.3*						
		2145		46.6		146.7	318.2						
		2230		45.5		150.0	315.3						
		2355		50.5		150.0	315.2						
		18		0042		53.0	150.0	314.9					
				0122		55.5	150.0	316.1					
				0201		58.0	150.0	316.4					
				Ptarmigan		SKI	Jun.	19	2011	500	70.1	143.6	315.0
									2049		72.6	140.8	-
		2123							74.9		137.4	315.9	
2154	77.2	132.9	315.1										
2225	79.3	126.7	-										
2300	81.6	132.0	319.2*										
2333	83.8	141.4	314.6										
20	0007	85.6	159.9		313.1								
	0124	700	80.6		159.9				317.6				
	0208	78.1	159.9		318.0								
	0250	75.6	159.9	353.0*									
	0332	73.1	159.9	317.4									

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)
Lark Y	HUB	<u>1960</u> Jun.	21	1745	500	39.5	124.6	316.4
				1830		39.5	127.8	321.7
		1915		39.5		131.1	320.3	
		1950		39.5		134.3	316.4	
		2030		39.5		137.5	318.7	
		2110		39.5		140.7	319.1	
		2150		38.5		144.2	319.2	
		2230		36.5		146.2	319.0	
		2340		33.0		150.0	318.0	
		22		0015		31.0	151.5	316.7
				0050		29.0	153.0	316.5
				0125		27.0	155.0	316.6
		Loon K		HUB		Jun.	26	1935
2005	17.5		155.7		316.9			
2030	18.0		157.3		316.5			
2055	18.5		159.0		316.1			
2125	19.0		160.7		315.4			
2155	19.5		162.4		314.9			
2220	20.0		164.0		316.2			
2240	21.7		164.0		316.2			
2305	23.3		164.0		316.2			
2335	25.0		164.0		316.1			
27	0000		26.7		164.0			316.2
	0020	28.3	164.0	316.2				

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8				
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)				
Stork	COO	1960 Jul	18	1630	500	41.7	127.9	314.9				
				1705		43.7	130.0	314.2				
		1745		45.7		132.1	311.7					
		1820		47.7		134.3	315.2					
		1940		48.7		139.9	309.7					
		2030		47.7		143.3	308.6					
		2115		46.6		146.7	309.1					
		2155		45.5		150.0	308.1					
		2305		50.5		150.0	311.2					
		2340		53.0		150.0	311.8					
		19		0025		55.5	150.0	312.1				
		0105		58.0		150.0	311.4					
		Ptarmigan		COO		Jul.	20	2135	700	73.1	159.9	310.3
								2220		75.6	159.9	308.6
2310	78.1		159.9		308.9							
21	0005		500		80.6		159.9	309.6				
	0055				83.1		159.9	310.1				
	0135				85.6		159.9	311.4				
	0210				83.8		141.4	307.8				
	0245				81.6		132.0	308.4				
	0355				77.2		132.9	309.3				
	0430				74.9		137.4	309.5				
	0505				72.6		140.8	308.9				

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8			
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)			
Loon K	BUR	<u>1960</u> Aug.	4	1821	700	19.3	152.9	316.2			
				2015		18.1	149.6	316.4			
		2106		17.0		149.6	316.5				
		2152		16.0		152.9	316.4				
		2240		14.9		156.2	316.7				
		2328		13.9		159.5	319.4*				
		0016		12.9		162.8	316.5				
		5	0103	11.9	166.0	315.5					
			0151	15.2	166.0	318.0**					
			0243	17.8	164.6	317.7**					
			0336	19.6	161.7	317.1**					
			0400	20.6	160.2	315.4					
			Lark Y	BUR	Aug.	12	1812	500	25.3	156.0	319.4
							1847		27.3	154.4	-
1926	29.3	152.7					321.9				
2001	31.4	151.1					317.7				
2038	33.4	149.4					320.0				
2120	35.4	147.6					315.9				
2157	37.5	145.8					315.3				
2229	39.5	144.0					310.8				
2256	39.5	140.7					310.6				
2336	39.5	137.5					322.4				
13	0024	39.5					134.3		320.1		
	0101	39.5	131.1	325.2*							

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7	8			
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat. Long.	CO ₂ Concentration (ppm)			
Stork	COO	1960 Aug.	23	1625	500	39.8 126.0	307.2			
				1710		41.7 127.9	307.8			
		1755		43.7 130.0		309.5				
		1850		45.7 132.1		310.4				
		2030		49.7 136.6		309.6				
		2115		48.7 139.9		311.5				
		2155		47.7 143.3		312.3				
		2245		46.6 146.7		313.1				
		24	0000	48.0 150.0	314.5					
			0035	50.5 150.0	313.4					
			0115	53.0 150.0	312.7					
			0200	55.5 150.0	311.5					
			Ptarmigan	COO	Aug.	25	2135	700	73.1 159.9	304.2
							2210		75.6 159.9	305.4
2250	78.1 159.9	305.8								
2330	80.6 159.9	306.7								
26	0010	83.1 159.9			307.3					
	0050	500 85.6 159.9			308.9					
	0125	83.8 141.4			308.4					
	0200	81.6 132.0			308.0					
	0240	79.3 126.7			309.1					
0320	77.2 132.9	309.2								
0355	74.9 137.4	308.0								
0440	72.6 140.8	307.7								

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8		
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂	Concentration (ppm)	
Loon K	COO	1960 Sept.	11	1945	700	17.0	154.0		312.9	
				2010		17.5	155.7		312.9	
		2040		18.0		157.3		312.7		
		2135		19.0		160.7		312.5		
		2225		20.0		164.0		312.4		
		2320		23.3		164.0		312.1		
		12		0015		26.7	164.0		310.4	
				0110		27.9	162.2		310.4	
				0200		27.1	158.6		310.2	
				0250		25.3	157.9		311.8	
				0315		24.0	159.0		311.9	
				0340		22.6	158.0		311.8	
		Lark Y		COO		Sept.	15	1800	500	25.3
1845	27.3		154.4					311.4		
1930	29.3		152.7					311.2		
2005	31.4		151.1					311.0		
2120	35.4		147.6					311.0		
2200	37.5		145.8					311.2		
2235	39.5		144.0					311.1		
2310	39.5		140.7					311.0		
16	0015		39.5		134.3					309.9
	0055		39.5		131.1					311.2
	0125		39.5		127.8					311.1
	0200		39.5		124.6					310.8

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8		
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)		
Stork J	COR	1960 Sept.	21	1550	500	39.8	126.0	311.1		
				1635		41.7	127.9	311.6		
		1720		43.7		130.0	310.8			
		1810		45.7		132.1	311.0			
		1930		49.7		136.6	308.5			
		2010		48.7		139.9	311.0			
		2225		45.5		150.0	311.8			
		2330		48.0		150.0	312.1			
		22		0005		50.5	150.0	370.4*		
				0045		53.0	150.0	310.1		
			0200	58.0	150.0	310.2				
		Ptarmigan	MAR	Sept.	22	2053	700	70.6	159.9	310.1
						2138		73.1	159.9	308.7
2222	75.6					159.9		309.3		
2303	78.1					159.9		308.4		
2341	80.6					159.9		308.3		
23	0024					83.1		159.9	310.5	
	0104					500		85.6	159.9	311.8
	0217				81.6	132.0	310.2			
	0254				79.3	126.7	310.3			
	0335				77.2	132.9	311.4			
	0451				72.6	140.8	309.7			

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8	
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)	
Lark Y	COR	1960 Oct.	19	1726	500	39.5	127.8	311.8	
				1807		39.5	131.1	312.7	
		1845		39.5		134.3	312.3		
		1928		39.5		137.5	312.5		
		2009		39.5		140.7	312.3		
		2054		39.5		144.0	312.6		
		2140		37.5		145.8	311.9		
		2231		35.4		147.6	312.3		
		2322		33.4		149.4	312.5		
		20		0006		31.4	151.1	312.1	
				0140		27.3	154.4	311.1	
				0314		23.2	157.6	311.8	
		Stork J		HUB		Oct.	19	1715	500
1800	45.7		132.1		314.0				
1845	47.7		134.3		314.4				
1915	49.7		136.6		315.8				
2000	48.7		139.9		312.7				
2045	47.7		143.3		313.8				
2120	46.6		146.7		315.2				
2202	45.5		150.0		313.2				
2240	48.0		150.0		313.7				
2320	50.5		150.0		315.7				
20	0000		53.0		150.0			313.0	
	0040		55.5		150.0			312.5	

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8			
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)			
Loon K	COR	<u>1960</u> Oct.	21	1926	700	19.3	152.9	312.0			
				2016		18.1	149.6	311.0			
		2107		17.0		149.6	311.4				
		2200		16.0		152.9	311.7				
		2248		14.9		156.2	312.3				
		2340		13.9		159.5	312.4				
		0034		12.9		162.8	313.2				
		22	0059	12.4	164.4	315.3**					
			0123	11.9	166.0	313.4					
			0213	15.2	166.0	313.2					
			0306	17.8	164.6	312.6					
			0356	19.6	161.7	312.1					
			Ptarmigan	FRO	Nov.	14	2208	700	73.1	159.9	316.3
							2248		75.6	159.9	334.7*
2326	78.1	159.9					317.1				
15	0009	80.6			159.9	315.4					
	0056	500			80.6	159.9	-				
	0135	78.1			159.9	328.4*					
	0214	75.6			159.9	339.3*					
	0251	73.1			159.9	-					

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8				
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)				
Stork J	COR	1960 Dec.	16	1617	500	39.8	126.0	319.3*				
				1812		45.7	132.1	314.5				
		1852		47.7		134.3	315.1					
		1924		49.7		136.6	314.2					
		1957		48.7		139.9	314.4					
		2030		47.7		143.3	314.3					
		2108		46.6		146.7	347.6*					
		2144		45.5		150.0	315.7					
		2211		48.0		150.0	318.0*					
		2241		50.5		150.0	314.4					
		2312		53.0		150.0	314.4					
		0018		58.0		150.0	313.2					
		Ptarmigan		COR		Dec.	18	2228	700	70.6	159.9	313.7
								2310		73.1	159.9	314.9
2349	75.6		159.9		313.9							
19	0027		500		78.1		159.9	314.6				
	0104				80.6		159.9	314.9				
	0218				85.6		159.9	314.8				
	0244				83.8		141.4	314.8				
	0314				81.6		132.0	313.9				
	0343				79.3		126.7	313.9				
	0415				77.2		132.9	314.0				
	0450				74.9		137.4	313.9				
	0603				70.1		143.6	314.5				

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8						
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)						
Lark Y	FRO	<u>1961</u> Jan.	15	1731	500	39.5	128.8	316.2						
				1819			131.1	335.0*						
				1911			134.3	315.7						
				2005			137.5	316.2						
				2056			140.7	338.2*						
			16	2150			144.0	321.1*						
				0055			150.2	316.4						
				0130			151.1	316.3						
				0200			152.1	314.9						
				0228			152.7	314.9						
				0304			154.4	315.1						
				0347			156.0	315.1						
				Stork J			BAN	Jan.	19	1621	500	43.7	130.0	315.7
										1734			132.1	315.4
										1803			134.3	314.5
1832	136.6	314.9												
1916	139.9	316.8												
2000	143.3	317.6												
2115	150.0	314.4												
2151	150.0	317.1												
2255	150.0	316.2												
2326	150.0	317.0												
2356	150.0	316.1												

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8			
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)			
Loon K	HUB	1961 Jan.	25	2030	700	17.5	148.0	366.2*			
				2100		17.0	149.6	314.7			
		2125		16.5		151.3	314.5				
		2155		16.0		152.9	316.4**				
		2220		15.5		154.6	314.8				
		2250		14.9		156.2	317.5*				
		2345		13.9		159.5	315.2				
		26	0045	12.9	162.8	316.8*					
			0135	11.9	166.0	315.2					
			0250	16.9	166.0	315.8**					
			0335	18.7	163.2	315.8**					
			Ptarmigan	HAN	Feb.	12	2120	700	71.0	160.0	317.0
							2155		74.0	160.0	317.5
							2245		76.5	160.0	317.0
2320	78.5	160.0					318.1				
0000	81.0	160.0					318.2				
13	0045	83.5			160.0	320.6					
	0125	85.6			160.0	319.9					
	0200	83.7			141.2	321.2					
	0231	81.5			132.0	358.0*					
	0310	79.0			127.0	317.9					
	0345	77.0	133.0	316.1							
	0425	74.3	138.5	316.4							

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8				
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)				
Loon K	HUB	<u>1961</u> Feb.	18	1930	700	22.2	150.0	316.0				
				2000		20.3	150.0	315.8				
		2030		18.5		150.0	315.5					
		2100		16.7		150.0	316.2					
		2130		14.8		150.0	316.0					
		2200		13.0		150.0	315.6					
		2235		13.0		152.0	315.8					
		2310		13.0		154.0	315.3					
		2345		13.0		156.0	315.4					
		19		0025		13.0	158.0	315.7				
				0055		13.0	160.0	315.7				
		Lark Y		BAN		Feb.	19	1815	500	25.3	156.0	315.1
								1935		29.3	152.7	315.7
2017	31.4		151.1		316.0							
2056	33.4		149.4		316.0							
2133	35.4		147.6		315.8							
2206	37.5		145.8		316.1							
2307	39.5		140.7		316.6							
2341	39.5		137.5		316.2							
20	0014		39.5		134.3			316.6				
	0047		39.5		131.1			316.7				
	0120		39.5		127.8			316.7				

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8	
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)	
Ptarmigan	SMJ	<u>1961</u> Mar.	19	2322	500	80.6	159.9	317.4	
			20	0000		83.1	159.9	317.5	
			0040	85.6		159.9	317.0		
			0057	84.7		148.0	317.3		
			0116	83.8		141.4	316.5		
			0149	81.6		132.0	316.1		
			0207	81.0		130.0	317.8		
			0223	79.3		126.7	316.9		
			0257	77.2		132.9	340.9*		
			0332	74.9		137.4	316.9		
			0410	72.6		140.8	317.4		
			0445	70.1		143.6	317.6		
		Stork	COR	Mar.		20	1824	500	59.7
1853	58.0				150.0		317.0		
1934	55.5				150.0		316.6		
2015	53.0				150.0		317.1		
2055	50.5				150.0		317.0		
2135	48.0				150.0		317.6		
2215	45.5				150.0		317.4		
2334	47.7				143.3		318.5		
21	0046				49.7		136.6		323.6*
	0123				47.7		134.3		317.2
	0203				45.7		132.1		318.8
	0318				41.7		127.9		338.0*

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8				
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)				
Lark Y	BAN	<u>1961</u> Mar.	22	1633	500	39.5	124.6	318.8				
				1723		39.5	127.8	317.0				
		1810		39.5		131.1	318.2					
		1852		39.5		134.3	318.3					
		1935		39.5		137.5	317.0					
		2019		39.5		140.7	317.4					
		2108		39.5		144.0	317.5					
		2144		37.5		147.6	318.3					
		2223		35.4		147.6	316.6					
		2300		33.4		149.4	316.9					
		2334		31.4		151.1	316.4					
		23		0010		29.3	152.7	316.2				
		Stork J		BAN		May	24	1553	500	39.8	126.0	317.5
								1630		41.7	127.9	316.9
1710	43.7		130.0		317.5							
1746	45.7		132.1		318.9							
1821	47.7		134.3		317.6							
1854	49.7		136.6		318.2							
1929	48.7		139.9		317.9							
2005	47.7		143.3		318.6							
2044	46.6		146.7		318.0							
2119	45.5		150.0		317.6							
2210	48.0		150.0		316.7							
2253	50.5		150.0		321.8*							

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8			
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)			
Ptarmigan	BAN	<u>1961</u> May	26	2053	700	70.6	159.9	318.2			
				2135		73.1	159.9	317.9			
		2214		75.6		159.9	317.6				
		2252		78.1		159.9	317.3				
		2330		80.6		159.9	318.0				
		27	0007	83.1	159.9	318.5					
			0045	85.6	159.9	318.0					
			0122	83.8	141.4	318.2					
			0308	77.2	132.9	317.3					
			0348	74.9	137.4	318.9					
			Stork J	COR	Jun.	24	1626	500	41.7	127.9	316.9
							1707		43.7	130.0	316.8
							1742		45.7	132.1	314.6
1819	47.7	134.3					315.8				
1858	49.7	136.6					313.9				
1942	48.7	139.9					314.9				
2030	47.7	143.3					315.1				
2156	45.5	150.0					314.0				
2308	50.5	150.0					311.9				
2344	53.0	150.0					312.0				
25	0027	55.5					150.0		315.9		
	0109	58.0					150.0		314.9		

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8				
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)				
Ptarmigan	COR	<u>1961</u> Jun.	26	2056	700	70.6	159.9	315.9				
				2141		73.1	159.9	316.0				
		2224		75.6		159.9	314.7					
		27	2357	500	80.6	159.9	315.4					
			0121		85.6	159.9	314.4					
			0156		83.8	141.4	313.9					
			0229		81.6	132.0	313.8					
			0303		79.3	126.7	314.5					
			0332		77.2	132.9	314.7					
			0450		72.6	140.8	313.8					
			Stork J		MAR	Aug.	26	1850	500	47.7	134.3	322.7*
								1939		49.7	136.6	321.1*
						2019		48.7		139.9	317.6*	
2102	47.7	143.3		320.2*								
2148	46.6	146.7		320.2*								
2229	45.5	150.0		324.9*								
2304	48.0	150.0		319.6*								
2336	50.5	150.0		316.8*								
27	0009	53.0		150.0		314.7*						
	0044	55.5		150.0		357.9*						
	0119	58.0		150.0		314.6*						
	0144	59.7		151.5		313.8*						

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Position Lat.	Long.	CO ₂ Concentration (ppm)
Ptarmigan	YEL	<u>1961</u> Aug	29	2138	700	73.1	159.9	308.3
				2220		75.6	159.9	307.8
		2301	30	78.1	159.9	307.6		
		2338		80.6	159.9	307.6		
		0011	500	83.1	159.9	308.3		
		0056		85.6	159.9	309.9		
		0130		83.8	141.4	308.4		
		0206		81.6	132.0	308.8		
		0238		79.3	126.7	309.0		
		0313		77.2	132.9	306.5		
		0347		74.9	137.4	309.0		
		0424		72.6	140.8	309.6		

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8				
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Lat.	Long.	CO ₂ Concentration (ppm)				
Ptarmigan	HAN	<u>1961</u> Nov.	29	2130	700	68.2	154.2	316.6				
				2200		70.0	158.3	328.9*				
				2250		73.1	159.9	317.4				
				2330		75.6	159.9	319.8				
				0045	500	80.6	159.9	315.7				
				0148		85.6	159.9	316.8				
				0226		83.8	141.4	316.8				
				0310		81.6	132.0	316.1				
				0355		79.3	126.7	315.4				
				0442		77.2	132.9	315.7				
				0529		74.9	137.4	315.0				
				0615		72.5	141.0	314.7				
				Stork J	FRA	Nov.	30	1835	500	59.1	151.0	383.5*
								1900		58.0	150.0	327.5*
1934	55.3	150.0	358.5*									
2010	53.0	150.0	328.6*									
2046	50.3	150.0	327.7*									
2123	48.0	150.0	328.6*									
2155	45.3	150.0	330.6*									
2234	46.3	147.1	336.1*									
2325	47.4	143.4	-									
0006	48.4	139.6	-									
0043	49.5	136.6	327.0*									
0118	47.5	134.2	329.9*									

Table 1. The Concentration of Carbon Dioxide in Air Samples Collected by Aircraft

Col: 1	2	3	4	5	6	7		8
Flight Name	Observer	Month	Day	Time (GMT)	Altitude (Millibars)	Lat.	Long.	CO ₂ Concentration (ppm)
Lark Y	BUR	<u>1961</u>	7	1803	500	39.5	131.1	314.5
		Dec		1838		39.5	134.3	314.4
		1915		39.5		137.5	314.9	
		1952		39.5		140.7	315.1	
		2026		39.5		144.0	315.2	
		2108		37.5		145.8	314.2	
		2145		35.4		147.6	314.9	
		2226		33.4		149.4	315.6	
		2308		31.4		151.1	315.3	
		2350		29.3		152.7	315.2	
		0031		27.3		154.4	315.3	
		0107		25.3		156.0	315.3	
		Lark Y		BUR		Dec.	16	1906
1942	27.3		154.4		314.9			
2019	29.3		152.7		315.3			
2056	31.4		151.1		-			
2136	33.4		149.4		315.1			
2211	35.4		147.6		315.0			
2247	37.5		145.8		315.0			
2322	39.5		144.0		314.9			
2349	39.5		140.7		314.9			
0015	39.5		137.5		314.9			
0045	39.5		134.3		-			
0115	39.5		131.1		315.6			