



High-Resolution Interferometer Sounder (HIS)

Data Availability

California and Arizona

Initial Flights

Date (day)	Flight Times (GMT)
09 April 1986 (099)	99:99 -- 99:99
04 April 1986 (104)	19:24 -- 99:99
05 April 1986 (105)	16:59 -- 17:30
	18:08 -- 19:21
16 April 1986 (106)	17:53 -- 21:00

COHMEX

CO mbined H untsville M eteorological EX periment

Date (day)	Flight Times (GMT)
15 June 1986 (166)	17:04 -- 19:42+
17 June 1986 (168)	15:04 -- 17:15
19 June 1986 (170)	13:17 -- 15:59+
20 June 1986 (171)	14:23 -- 18:06
23 June 1986 (174)	18:40 -- 00:25
26 June 1986 (177)	16:09 -- 20:34
29 June 1986 (180)	19:16 -- 99:99
01 July 1986 (182)	16:00 -- 20:11
04 July 1986 (185)	99:99 -- 99:99
05 July 1986 (186)	13:20 -- 17:30
08 July 1986 (189)	18:33 -- 22:00
10 July 1986 (191)	18:33 -- 22:00
11 July 1986 (192)	18:00 -- 01:00
12 July 1986 (193)	17:00 -- 22:58
14 July 1986 (195)	01:00 -- 06:00
16 July 1986 (197)	19:00 -- 22:00
17 July 1986 (198)	18:32 -- 21:33
20 July 1986 (201)	18:00 -- 00:00
21 July 1986 (202)	17:00 -- 23:00

FIRE I

F irst ISCCP R egional E xperiment I

Date (day)	Flight Times (GMT)
13 October 1986 (286)	05:19 -- 09:53
15 October 1986 (288)	07:37 -- 10:51
19 October 1986 (292)	04:21 -- 05:23
24 October 1986 (297)	18:12 -- 21:26
27 October 1986 (300)	17:54 -- 20:16
28 October 1986 (301)	15:15 -- 19:29
30 October 1986 (303)	17:40 -- 21:53
31 October 1986 (304)	15:12 -- 18:36
02 November 1986 (306)	16:21 -- 20:48

CaPE

C onvection and P recipitation E lectrification experiment

Date (day)	Flight Times (GMT)	Flight Target/Investigation
21 July 1991 (202)	14:45 -- 19:00	Rain cells / Ocean storm over Florida
30 July 1991 (211)	12:14 -- 16:40	Preconvective, convective rain cells over Flori
01 August 1991 (213)	14:27 -- 18:24	Ocean buoy / Sea surface flight over Atlantic
05 August 1991 (217)	14:55 -- 18:18	Squall line over Florida
06 August 1991 (218)	15:12 -- 21:31	Sea Breeze front over Florida
08 August 1991 (220)	17:12 -- 21:48	Thunderstorms over Florida
12 August 1991 (224)	17:09 -- 00:24	Thunderstorms over Florida
13 August 1991 (225)	20:26 -- 23:31	Thunderstorms over Florida
16 August 1991 (228)	13:41 -- 19:21	Surface energy flux over Florida
17 August 1991 (229)	16:36 -- 21:45	Surface energy flux over Florida
19 August 1991 (231)	15:47 -- 17:05	Hurricane Bob

SERON

S outh-E ast R egional O zone N etwork

Date (day)	Flight Times (GMT)	Flight Target/Investigation
21 August 1991 (233)	13:41 -- 17:05	SERON ozone network (Georgia)
22 August 1991 (234)	14:16 -- 17:13	SERON ozone network (Georgia)

FIRE II

F irst ISCCP R egional E xperiment - Phase II

Date (day)	Flight Times (GMT)	Flight Target/Investigation
14 November 1991 (318)	14:01 -- 18:00	Cirrus over Kansas
18 November 1991 (322)	20:56 -- 23:30	Clear sky over Kansas
22 November 1991 (326)	18:30 -- 20:30	Cirrus over Kansas
24 November 1991 (328)	17:00 -- 21:10	Cirrus over Gulf of Mexico
25 November 1991 (329)	16:00 -- 20:00	Cirrus over Oklahoma
26 November 1991 (330)	15:00 -- 17:50	Cirrus over Kansas
03 December 1991 (337)	15:30 -- 18:00	Cirrus over Gulf of Mexico

04 December 1991 (338)	18:30 -- 20:30	Corpus Christi / Gulf of Mexico
05 December 1991 (339)	15:00 -- 19:00	Cirrus over Kansas

STORM-FEST

STorm-scale O peration and R esearch M eteorology - F ronts E xperiment and S ystems T est

Date (day)	Flight Times (GMT)	Flight Target/Investigation
21 February 1992 (052)	18:30 -- 22:35	Cirrus / Clear sky over Gulf of Mexico
23 February 1992 (054)	18:17 -- 00:25	High Plains precipitation
25 February 1992 (056)	18:18 -- 00:07	Prestorm clear sky over Kansas
01 March 1992 (061)	09:30 -- 13:30	Nocturnal boundary layer over Kansas
07 March 1992 (098)	18:14 -- 19:42	ER-2 test flight
13 March 1992 (104)	17:06 -- 20:42	Moisture gradient over Gulf of Mexico
14 March 1992 (105)	20:27 -- 02:15	4D assimilation over Great Plains

CAMEX

C onvection A nd M oisture EX periment

Date (day)	Flight Times (GMT)	Flight Target/Investigation
12 September 1993 (255)	20:11 -- 02:27	Ferry flight from NASA/Ames to NASA/Wallops
15 September 1993 (258)	20:23 -- 20:45	DMSP overpass -- ER2 payload pressure failure
19 September 1993 (262)	20:22 -- 20:56	Convection over ocean -- ER2 hydraulic failure
25 September 1993 (268)	16:25 -- 17:43	Post-hydraulic repair checkout flight
26 September 1993 (269)	19:15 -- 22:55	Convection over Atlantic
29 September 1993 (272)	01:20 -- 04:39	AIRS support flight
30 September 1993 (273)	20:21 -- 01:40	DMSP overpass
03 October 1993 (276)	20:15 -- 02:50	Convection over ocean (Florida)
05 October 1993 (278)	16:27 -- 22:57	Convection over ocean (Florida)

ASHOE

A irborne S outhern H emisphere O zone E xperiment

Date (day)	Flight Times (GMT)	Flight Target/Investigation
02 February 1994 (033)	21:08 -- 22:54	Test flight at NASA/Ames
04 February 1994 (035)	16:11 -- 00:04	Alaska flight
19 February 1994 (050)	17:11 -- 18:39	Test flight over Moffit AFB
13 April 1994 (103)	19:41 -- 03:22	South flight over ocean
15 April 1994 (105)	01:10 -- 03:36	Test flight / over volcano
05 June 1994 (156)	20:08 -- 21:08	Antarctic vortex
08 August 1994 (220)	22:11 -- 06:11	South flight over ocean
10 August 1994 (222)	21:12 -- 04:28	South flight over ocean
03 October 1994 (276)	21:42 -- 05:32	South flight over ocean
05 October 1994 (278)	21:17 -- 04:42	Southeast flight over ocean

OTIS

O cean T emperature I nterferometric S urvey

Date (day)	Flight Times (GMT)	Flight Target/Investigation
05 January 1995 (005)	16:00 -- 20:40	Ferry flight from AMES over CART
07 January 1995 (007)	16:10 -- 20:21	Photos of Gulf Coast
08 January 1995 (008)	14:39 -- 20:33	Gulf Coast
11 January 1995 (011)	17:39 -- 19:43	Over Gulf of Mexico - buoy
13 January 1995 (013)	17:32 -- 20:58	Gulf Coast - EDOP
15 January 1995 (015)	12:05 -- 14:21	GOES Calibration - over ship (RV Pelican)
16 January 1995 (016)	14:36 -- 19:00	GOES Calibration - over ship (RV Pelican)
19 January 1995 (019)	14:55 -- 20:47	Over CART - moisture gradient

CAMEX II

C onvection A nd M oisture EX periment II

Date (day)	Flight Times (GMT)	Flight Target/Investigation
23 August 1995 (235)	20:00 -- 22:05	Ferry flight (?) NASA/Wallops
25 August 1995 (237)	10:45 -- 16:10	DMSP Overpass - New England
26 August 1995 (238)	20:30 -- 02:30	Precipitation over Georgia
28 August 1995 (240)	21:30 -- 03:40	Precip/Water Vapor over Wallops and Atlantic
30 August 1995 (242)	00:00 -- 06:10	Water Vapor over Wallops
02 September 1995 (245)	19:30 -- 02:00	Precipitation/Water Vapor

SUCCESS

SU bsonic Aircraft : C ontrail and C loud E ffects S pecial S tudy

Date (day)	Flight Times (GMT)	Flight Target/Investigation
02 April 1996 (092)	21:10 -- 23:01	Ames test - over desert
03 April 1996 (093)	02:09 -- 03:45	Ames test - over desert
08 April 1996 (098)	15:40 -- 18:46	Ferry flight to Salina, KS
13 April 1996 (103)	17:52 -- 20:04	Gulf Coast with MAS
15 April 1996 (105)	17:50 -- 20:40	Radiation measurement/contrails
16 April 1996 (106)	17:14 -- 23:24	Radiation measurement/contrails & cirrus
20 April 1996 (110)	15:07 -- 20:57	Radiation measurements/contrails & cirrus
21 April 1996 (111)	17:09 -- 23:33	Radiation measurements/contrails & cirrus
23 April 1996 (113)	17:28 -- 21:35	Lee wave clouds over CO - NOAA-14 overpass
26 April 1996 (116)	17:45 -- 20:49	Cirrus and contrails - NOAA-14 overpass
27 April 1996 (117)	16:16 -- 20:28	Radiation measurements - NOAA-14 overpass
02 May 1996 (122)	16:42 -- 19:17	Wave clouds and contrails over WY - NOAA-14 overpass
03 May 1996 (123)	17:25 -- 21:59	Radiation measurements/contrails - NOAA-14 overpass
04 May 1996 (124)	17:10 -- 21:08	Radiation measurements/contrails - NOAA-14 overpass
07 May 1996 (127)	17:39 -- 23:10	Contrails - NOAA-14 overpass
08 May 1996 (128)	17:27 -- 21:53	Convective outflow over upper Midwest

Note : Noisy shortwave channel 20 April, 23 April - 8 May.

WINCE

WIN ter C loud E xperiment

Date (day)	Flight Times (GMT)	Flight Target/Investigation
02 February 1997 (033)	16:18 -- 20:53	Cloud detection over snow/ice
06 February 1997 (037)	17:42 -- 22:03	Cloud detection - St. James Bay

08 February 1997 (039) 16:22 -- 20:37 MAS/HIS Calibration - Lake Huron
10 February 1997 (041) 23:36 -- 02:58 Night cloud detection of cirrus
