

# 1983. Chronology

The 75 tropical cyclones and 9 tropical disturbances were recorded in the Word Ocean

## 1. Northwest Pacific Ocean — 23 TC

N	Number	Name	Lat	Long	Dates	Max Stage
1	8301	SARAN	13.4	112.5	06/24–06/26	TS
2	8302	TIP	14.0	124.0	07/10–07/14	T
3	8303	VERA	9.0	142.0	07/10–07/18	T
4	8304	WAYNE	13.0	135.0	07/22–07/25	T
5	8305	ABBY	8.5	143.0	08/04–08/20	T
6	8306	BEN	24.5	144.5	08/11–08/15	STS
7	8307	CARMEN	18.0	125.0	08/13–08/15	TS
8	8308	DOM	16.0	135.0	08/18–08/28	TS
9	8309	ELLEN	13.0	164.0	08/30–09/09	T
10	8310	FORREST	6.0	153.0	09/19–09/28	T
11	8311	GEORGIA	18.0	117.0	09/28–10/01	STS
12	8312	HERBERT	11.0	115.0	10/06–10/09	TS
13	8313	IDA	17.5	146.0	10/06–10/11	STS
14	8314	JOE	13.5	130.0	10/09–10/14	STS
15	8315	KIM	9.5	114.0	10/16–10/17	TS
16	8316	LEX	14.0	130.0	10/19–10/26	STS
17	8317	MARGE	10.8	144.3	10/31–11/07	T
18	8318	NORRIS	18.0	151.0	11/08–11/10	TS
19	8319	ORCHID	10.5	137.0	11/17–11/26	T
20	8320	PERCY	9.0	113.0	11/18–11/23	T
21	8321	RUTH	9.0	144.0	11/22–11/30	STS
22	8322	SPERRY	7.3	146.5	11/30–12/05	TS
23	8323	THELMA	11.2	140.2	12/15–12/18	STS

## 2. Northeast Pacific Ocean — 21 TC

N	Number	Name	Lat	Long	Dates	Max Stage
1	8301	ADOLPH	5.7	–92.0	05/21–05/28	T
2	8302	BARBARA	11.2	–93.6	06/09–06/18	T
3	8303	COSME	10.5	–109.5	07/02–07/05	TS
4	8304	DALILIA	12.8	–102.4	07/06–07/11	STS
5	8305	ERICK	10.5	–104.0	07/12–07/16	STS
6	8306	FLOSSIE	16.4	–105.0	07/17–07/21	STS
7	8307	GIL	11.0	–95.0	07/23–08/06	T
8	8308	HENRIETTE	11.5	–95.4	07/27–08/06	T
9	8309	ISMAEL	12.8	–106.5	08/08–08/14	T
10	8310	JULIETTE	11.2	–107.4	08/24–09/01	STS
11	8311	KIKO	12.2	–102.1	08/31–09/09	T
12	8312	LORENA	15.5	–100.0	09/06–09/14	T
13	8313	MANUEL	12.0	–99.2	09/12–09/20	T
14	8314	NARDA	15.1	–112.0	09/21–10/01	STS
15	8315	OCTAVE	11.8	–118.2	09/27–10/02	TS
16	8316	PRISCILLA	11.7	–108.5	09/30–10/06	T
17	8317	RAYMOND	13.0	–105.0	10/08–10/20	T
18	8318	SONIA	13.2	–130.1	10/09–10/14	TS
19	8319	TICO	8.5	–101.4	10/11–10/20	T
20	8320	VELMA	7.8	–100.8	11/01–11/03	TS
21	8321	WINNIE	12.8	–102.9	12/04–12/07	T

**3. North Atlantic Ocean — 4 TC, 2 TD**

N	Number	Name	Lat	Long	Dates	Max Stage
1	83-1	NO NAME	14.5	-65.5	07/28-07/29	TD
2	83-2	NO NAME	14.8	-45.0	07/30-08/02	TD
3	8301	ALICIA	27.3	-91.0	08/15-08/18	T
4	8302	BARRY	26.0	-76.0	08/23-08/29	T
5	8303	CHANTAL	30.4	-64.2	09/10-09/15	T
6	8304	DEAN	30.0	-72.5	09/27-09/30	STS

**4. North Indian Ocean — 3 TC, 1 TD**

N	Number	Name	Lat	Long	Dates	Max Stage
1	8301	NO NAME	18.0	85.5	10/02-10/03	TS
2	8302	NO NAME	19.5	90.0	10/14-10/15	TS
3	83-1	NO NAME	18.0	94.0	10/20-10/20	TD
4	8303	NO NAME	12.9	87.0	11/06-11/09	STS

**5. South Indian Ocean — 13 TC, 4 TD**

N	Number	Name	Lat	Long	Dates	Max Stage
1	8301	IANE	-14.5	115.0	01/06-01/09	T
2	8302	ELINAH	-8.5	47.5	01/10-01/17	T
3	8303	NO NAME	-18.2	62.8	02/05-02/08	TS
4	83-1	NO NAME	-18.3	90.0	02/23-02/26	TD
5	83-2	NO NAME	-17.0	63.0	02/26-03/01	TD
6	8304	KEN	-12.5	120.0	02/28-03/03	TS
7	8305	LENA	-13.5	115.5	04/05-04/08	TS
8	8306	NAOMY	-13.0	82.0	04/21-04/29	T
9	8307	MONTY	-13.0	103.0	04/24-04/28	STS
10	8308	OSCAR	-11.0	87.0	10/25-10/31	STS
11	83-3	NO NAME	-8.0	92.0	11/11-11/14	TD
12	8309	NO NAME	-11.0	65.0	11/22-11/26	TS
13	8310	QUENTON	-11.9	111.6	11/27-11/29	TS
14	8311	ANDRY	-9.5	65.5	12/05-12/15	T
15	8312	BAKOLY	-9.5	69.5	12/19-12/29	T
16	8313	NO NAME	-14.0	83.5	12/26-12/30	TS
17	83-4	NO NAME	-19.8	51.5	12/29-01/01	TD

**6. Southwest Pacific Ocean — 11 TC, 2 TD**

N	Number	Name	Lat	Long	Dates	Max Stage
1	83-1	NO NAME	-18.0	152.0	01/16-01/19	TD
2	8301	MARK	-11.0	175.0	01/23-01/31	STS
3	83-2	NO NAME	-16.0	-141.0	01/24-01/26	TD
4	8302	ELINOR	-14.0	156.0	02/13-03/03	T
5	8303	NISHA	-14.0	-142.0	02/21-02/28	T
6	8304	OSCAR	-14.0	177.0	02/23-03/03	T
7	8305	PREMA	-12.5	-163.0	02/26-02/28	TS
8	8306	REWA	-12.0	-148.0	03/07-03/16	T
9	8307	SARAH	-12.0	176.0	03/24-03/29	STS
10	8308	TOMAS	-12.0	-159.0	03/28-04/03	T
11	8309	VEENA	-12.0	-139.0	04/08-04/14	T
12	8310	WILLIAM	-10.0	-133.0	04/15-04/22	T
13	8311	FRITZ	-16.0	149.0	12/10-12/14	TS

# 1983. Evolution

## 1983. Northwest Pacific Ocean

**1. TC = NWP8301 Name = SARAN All Points = 7**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	06/24	6	13.4	112.5	1003	15	WNW	10
2	TD	06/24	18	14.8	110.8	1005	15	WNW	10
3	TD	06/25	0	15.2	110.5	1000	15	NW	10
4	TS	06/25	6	15.6	109.8	995	18	NW	8
5	TS	06/25	12	16.1	108.9	998	18	NNW	8
6	TD	06/26	0	16.5	107.3	1000	15	NW	8
7	TD	06/26	6	17.5	106.0	1000	15	NW	8

**2. TC = NWP8302 Name = TIP All Points = 15**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	07/10	0	14.0	124.0	1004	15	WNW	13
2	TD	07/10	6	14.0	122.0	1004	15	W	15
3	TD	07/10	12	13.0	121.0	1004	15	SW	10
4	STS	07/11	0	14.5	117.6	985	31	WNW	13
5	STS	07/11	6	15.2	116.9	985	31	WNW	15
6	T	07/11	12	15.0	115.5	980	33	WNW	13
7	STS	07/12	3	16.7	114.0	980	31	WNW	11
8	STS	07/12	6	17.3	113.2	980	31	WNW	10
9	STS	07/12	12	18.3	112.1	985	28	NW	11
10	TS	07/12	18	18.7	112.0	990	23	NNW	6
11	TS	07/13	0	19.5	111.5	992	21	NNW	7
12	TS	07/13	6	20.2	111.0	996	18	NNW	8
13	TD	07/13	12	21.0	110.8	998	15	NNW	7
14	TD	07/13	18	21.3	110.3	999	13	NW	8
15	TD	07/14	0	22.0	110.0	1000	13	NW	5

**3. TC = NWP8303 Name = VERA All Points = 33**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	07/10	6	9.0	142.0	1004	15	W	10
2	TD	07/10	12	9.0	140.0	1004	15	W	10
3	TD	07/11	0	9.5	137.0	1004	15	W	15
4	TD	07/11	6	9.5	136.0	1002	15	W	10
5	TD	07/11	12	11.0	135.0	1000	15	NW	10
6	TD	07/12	0	11.0	133.0	1004	15	W	15
7	TD	07/12	6	11.7	130.7	1004	15	WNW	14
8	TD	07/12	12	11.7	129.3	1002	15	W	10
9	TS	07/12	18	12.0	128.4	994	21	W	10
10	TS	07/13	0	11.2	128.5	992	23	W	4
11	STS	07/13	6	11.3	127.9	986	28	W	4
12	STS	07/13	12	11.7	127.1	985	31	W	10
13	T	07/13	18	12.2	126.0	980	33	WNW	12
14	T	07/14	0	12.4	125.5	975	36	WNW	10
15	T	07/14	6	13.0	124.5	975	36	WNW	10
16	T	07/14	12	13.0	123.0	975	36	WNW	10
17	STS	07/14	18	13.0	122.3	980	31	WNW	10
18	STS	07/15	0	14.0	121.2	980	31	WNW	10
19	STS	07/15	6	14.0	120.0	980	28	WNW	10
20	STS	07/15	12	15.0	119.0	980	28	WNW	10
21	STS	07/15	18	16.0	117.7	980	31	WNW	11

22	T	07/16	0	16.0	116.4	975	33	WNW	11
23	T	07/16	6	17.0	115.0	975	33	WNW	11
24	T	07/16	12	17.0	114.6	965	36	WNW	10
25	T	07/16	18	18.0	113.2	962	41	WNW	15
26	T	07/17	0	19.0	112.2	965	38	WNW	10
27	T	07/17	6	19.0	111.1	960	44	NW	12
28	T	07/17	12	19.0	109.7	975	33	WNW	12
29	T	07/17	18	20.0	108.5	975	33	WNW	12
30	STS	07/18	0	21.0	107.0	980	28	WNW	14
31	TS	07/18	6	21.5	105.6	985	23	WNW	13
32	TS	07/18	12	21.9	104.0	990	21	WNW	13
33	TD	07/18	18	22.5	103.0	1000	15	NW	10

**4. TC = NWP8304 Name = WAYNE All Points = 16**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	07/22	0	13.0	135.0	1008	13	NW	3
2	TD	07/22	6	14.6	134.1	1005	13	WNW	10
3	TD	07/22	12	13.5	133.0	1002	15	SW	12
4	TS	07/22	18	16.1	131.8	995	23	NNW	15
5	STS	07/23	0	16.8	130.2	986	26	NW	10
6	T	07/23	6	17.4	128.8	985	33	NW	15
7	T	07/23	12	18.2	127.5	970	33	NW	14
8	T	07/23	18	18.8	126.3	960	38	NW	15
9	T	07/24	0	19.3	124.5	920	65	WNW	15
10	T	07/24	6	19.9	122.8	920	68	WNW	15
11	T	07/24	12	20.0	121.8	930	62	WNW	15
12	T	07/24	18	21.1	120.2	940	60	WNW	13
13	T	07/25	0	22.3	119.3	950	49	NW	15
14	T	07/25	6	23.5	118.1	960	44	NW	17
15	STS	07/25	12	24.8	117.2	984	26	NW	16
16	TD	07/25	18	25.5	115.0	998	15	WNW	10

**5. TC = NWP8305 Name = ABBY All Points = 56**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	08/04	0	8.5	143.0	1006	13	W	5
2	TD	08/04	6	9.0	142.5	1006	13	NW	10
3	TD	08/04	12	9.0	141.5	1006	13	W	12
4	TD	08/05	0	9.2	140.8	1004	15	WNW	9
5	TS	08/05	6	9.5	140.1	1000	21	WNW	9
6	TS	08/05	12	9.6	140.0	998	23	NW	3
7	TS	08/05	18	9.8	139.3	998	18	WNW	6
8	TS	08/06	0	10.2	138.8	996	21	WNW	8
9	TS	08/06	6	10.9	137.8	998	23	NW	10
10	STS	08/06	12	11.7	137.5	985	28	NW	9
11	T	08/06	18	12.3	136.3	980	33	NW	10
12	T	08/07	0	12.8	135.8	975	36	NW	9
13	T	08/07	6	13.5	134.9	965	41	NW	10
14	T	08/07	12	14.3	134.0	945	46	NW	10
15	T	08/07	18	15.0	133.5	930	51	NW	10
16	T	08/08	0	15.8	132.8	920	65	NW	10
17	T	08/08	6	16.5	132.5	910	65	NNW	10
18	T	08/08	12	17.2	131.9	900	70	NNW	9
19	T	08/08	18	17.8	131.5	895	73	NW	9
20	T	08/09	0	17.8	130.9	900	70	NW	6
21	T	08/09	6	18.1	130.7	908	68	NW	4
22	T	08/09	12	18.8	130.2	915	65	NW	6
23	T	08/09	18	18.9	130.6	925	62	NW	3
24	T	08/10	0	19.1	130.2	925	62	0	0
25	T	08/10	6	19.5	130.3	930	57	N	1
26	T	08/10	12	19.8	130.5	925	57	0	0



30 STS 09/09 6 22.7 112.7 980 26 NW 8  
 31 TD 09/09 12 23.0 111.0 998 15 WNW 8

**10. TC = NWP8310 Name = FORREST All Points = 30**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	L	09/19	0	6.0	153.0	1006	9	WNW	10
2	L	09/19	6	7.0	150.0	1000	9	WNW	15
3	TD	09/20	0	10.0	146.0	1002	10	WNW	15
4	TD	09/20	6	10.5	145.0	1000	10	WNW	8
5	TS	09/20	12	11.0	144.0	996	18	WNW	10
6	STS	09/21	0	12.1	141.9	994	28	WNW	12
7	STS	09/21	6	12.7	141.0	990	31	WNW	10
8	STS	09/21	12	13.1	139.9	985	31	WNW	10
9	T	09/21	18	14.4	138.9	980	33	NW	10
10	T	09/22	0	15.1	137.9	975	33	NW	10
11	T	09/22	6	16.2	137.0	970	38	NW	12
12	T	09/22	12	17.2	136.0	925	51	NW	14
13	T	09/23	0	18.1	134.0	910	57	NW	13
14	T	09/23	6	19.0	132.5	885	57	WNW	12
15	T	09/24	0	20.6	130.3	910	57	NW	10
16	T	09/24	6	21.6	129.6	915	57	NW	10
17	T	09/24	12	22.4	128.0	920	57	NW	11
18	T	09/25	0	23.7	127.4	925	51	NNW	10
19	T	09/25	6	24.1	126.0	925	51	NNW	8
20	T	09/25	12	25.1	126.5	915	54	NNW	8
21	T	09/25	18	25.7	125.8	925	51	NNW	10
22	T	09/26	0	26.8	125.7	920	51	NNW	10
23	T	09/26	6	27.4	124.5	925	51	NW	10
24	T	09/26	12	28.1	124.0	925	51	NNW	10
25	T	09/26	18	28.9	123.9	925	49	NNW	10
26	T	09/27	0	29.9	124.0	935	46	N	10
27	T	09/27	6	30.7	124.7	940	44	NE	11
28	T	09/27	12	32.1	127.4	960	33	ENE	14
29	L	09/28	0	32.5	129.4	975	31	E	20
30	L	09/28	12	35.0	132.0	990	21	NE	25

**11. TC = NWP8311 Name = GEORGIA All Points = 11**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	09/28	6	18.0	117.0	1000	15	W	3
2	TD	09/28	12	18.5	116.0	1000	15	NW	8
3	TS	09/29	0	19.3	114.9	996	23	NW	10
4	TS	09/29	6	19.3	114.2	996	21	W	3
5	TS	09/29	12	19.2	112.7	990	21	W	10
6	STS	09/30	0	19.8	111.1	985	26	W	6
7	STS	09/30	6	20.0	110.0	980	26	WNW	8
8	TS	09/30	12	20.4	109.0	985	23	NW	10
9	TS	10/01	0	20.3	107.0	990	23	W	10
10	TS	10/01	6	20.3	105.2	996	21	W	10
11	TD	10/01	12	21.0	104.0	1000	15	NW	8

**12. TC = NWP8312 Name = HERBERT All Points = 9**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	10/06	6	11.0	115.0	1006	15	W	1
2	TD	10/06	12	11.0	114.0	1004	15	W	10
3	TS	10/07	0	11.3	113.8	1000	18	NW	5
4	TS	10/07	6	11.5	113.0	1000	21	WNW	3
5	TS	10/07	12	11.5	112.0	996	21	W	10
6	TS	10/08	0	13.0	111.4	994	21	WNW	7
7	TS	10/08	6	13.3	110.8	996	23	WNW	7
8	TS	10/08	12	13.5	110.0	996	21	W	7

9 TD 10/09 0 14.0 108.5 1000 15 WNW 10

**13. TC = NWP8313 Name = IDA All Points = 15**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	10/06	12	17.5	146.0	1006	13	W	10
2	TD	10/07	0	17.3	143.0	1004	15	W	15
3	TD	10/07	6	17.3	142.0	1004	15	W	10
4	TD	10/07	12	18.5	140.5	1004	15	NW	15
5	TS	10/08	0	20.0	137.9	1004	21	WNW	10
6	TS	10/08	6	20.8	136.7	996	23	WNW	14
7	TS	10/08	12	21.3	134.4	992	23	NNW	16
8	STS	10/09	0	23.5	132.0	985	28	NNW	16
9	STS	10/09	6	24.4	131.8	980	31	N	15
10	STS	10/09	12	26.1	131.8	980	31	N	15
11	STS	10/10	0	29.0	133.5	980	28	NE	14
12	STS	10/10	6	30.3	133.7	975	28	N	13
13	STS	10/10	12	31.4	134.8	975	28	NE	17
14	L	10/11	0	33.6	138.0	980	28	ENE	30
15	L	10/11	6	34.6	142.6	980	28	ENE	33

**14. TC = NWP8314 Name = JOE All Points = 15**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	10/09	12	13.5	130.0	1004	15	NW	15
2	TD	10/10	0	14.5	127.0	1000	15	NW	15
3	TD	10/10	6	14.5	126.5	1000	15	W	13
4	TD	10/10	12	14.5	124.5	1000	15	W	15
5	TD	10/11	0	15.5	121.5	1000	15	WNW	10
6	TS	10/11	6	16.2	120.0	998	23	WNW	13
7	TS	10/11	12	17.0	118.5	992	23	WNW	16
8	TS	10/11	18	17.0	117.0	992	23	WNW	15
9	STS	10/12	0	17.0	116.5	990	26	WNW	10
10	STS	10/12	6	17.3	115.4	985	26	WNW	9
11	STS	10/12	12	18.1	114.0	985	26	WNW	10
12	STS	10/13	0	20.0	113.0	985	26	WNW	10
13	STS	10/13	6	20.7	113.3	980	26	WNW	10
14	STS	10/13	12	21.7	112.7	975	28	WNW	12
15	TD	10/14	0	23.0	111.0	1000	15	NW	10

**15. TC = NWP8315 Name = KIM All Points = 6**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	10/16	0	9.5	114.0	1000	15	W	5
2	TD	10/16	6	9.5	113.0	998	15	W	10
3	TD	10/16	12	10.5	111.5	998	15	NW	10
4	TS	10/17	0	11.2	109.1	998	18	NW	10
5	TS	10/17	6	12.0	107.5	1000	18	WNW	10
6	TD	10/17	12	12.5	107.0	1002	15	NW	7

**16. TC = NWP8316 Name = LEX All Points = 21**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	10/19	12	14.0	130.0	1004	15	NW	15
2	TD	10/20	0	15.0	128.0	1004	15	NW	15
3	TD	10/20	6	15.0	125.0	1004	15	W	10
4	TD	10/20	12	15.5	124.5	1004	15	NW	13
5	TD	10/21	0	17.0	121.0	1004	15	NW	13
6	TD	10/21	12	16.0	118.0	1002	15	WSW	13
7	TS	10/22	0	17.0	116.0	996	21	WNW	13
8	TS	10/22	6	16.8	115.7	996	21	SW	5
9	TS	10/22	12	17.2	114.9	996	21	NW	7
10	TS	10/23	0	17.5	114.5	996	21	NW	7
11	TS	10/23	6	17.7	114.5	992	21	0	0

12	TS	10/23	12	18.0	114.0	990	21	WNW	7
13	TS	10/23	18	17.6	113.7	990	21	W	1
14	TS	10/24	0	17.5	113.7	992	21	0	0
15	TS	10/24	6	17.5	113.2	990	23	W	1
16	STS	10/24	18	17.0	112.3	985	26	WNW	5
17	STS	10/25	0	17.0	111.4	985	26	W	5
18	STS	10/25	6	17.0	110.7	985	26	W	5
19	STS	10/26	0	17.0	107.9	985	26	NW	10
20	TS	10/26	6	17.0	106.7	990	23	W	10
21	TD	10/26	12	18.0	106.0	1000	15	NW	5

17. TC = NWP8317 Name = MARGE All Points = 19

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	10/31	12	10.8	144.3	1002	15	W	5
2	TS	11/01	0	10.8	143.6	996	18	W	6
3	TS	11/01	6	12.0	142.3	996	21	NW	12
4	TS	11/01	18	13.4	140.5	992	23	NW	7
5	STS	11/02	0	14.5	140.3	990	26	NNW	10
6	STS	11/02	6	15.4	140.0	985	31	NNW	10
7	T	11/03	0	17.0	138.8	965	36	NW	7
8	T	11/03	6	17.4	138.7	950	41	NW	7
9	T	11/04	0	18.2	134.7	895	57	WNW	10
10	T	11/04	6	18.5	134.4	895	57	WNW	10
11	T	11/04	12	18.8	134.0	895	57	NW	6
12	T	11/05	0	19.9	133.3	910	57	N	6
13	T	11/05	6	20.4	133.4	910	57	N	6
14	T	11/05	12	21.0	134.0	915	51	NNE	8
15	T	11/06	0	22.6	135.5	925	51	NE	10
16	T	11/06	6	23.6	137.3	925	51	NE	20
17	T	11/06	12	25.4	139.9	930	51	NE	30
18	L	11/07	0	31.3	147.9	955	36	NE	50
19	L	11/07	6	36.1	152.9	960	38	NE	55

18. TC = NWP8318 Name = NORRIS All Points = 6

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	11/08	12	18.0	151.0	1000	15	NW	5
2	TS	11/09	0	18.6	151.6	994	21	WNW	8
3	TS	11/09	6	19.4	151.5	994	23	NNW	10
4	TS	11/10	0	22.1	152.8	998	23	NE	12
5	TS	11/10	6	22.7	153.5	998	21	NE	12
6	TD	11/10	12	23.5	155.0	1000	15	NE	12

19. TC = NWP8319 Name = ORCHID All Points = 29

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	11/17	6	10.5	137.0	1004	15	W	3
2	TD	11/17	12	11.0	135.0	1002	15	WNW	10
3	TD	11/17	21	12.0	133.0	1002	15	WNW	15
4	TS	11/18	0	12.6	131.0	996	23	WNW	10
5	TS	11/18	6	12.5	129.5	992	23	W	12
6	TS	11/18	12	13.0	128.5	990	23	NW	10
7	STS	11/19	0	13.0	128.0	986	26	0	0
8	STS	11/19	6	12.9	128.0	985	26	0	0
9	STS	11/19	12	12.2	127.6	980	31	0	0
10	T	11/20	0	12.7	127.5	970	33	0	0
11	T	11/20	6	12.3	127.3	965	36	N	1
12	T	11/21	0	13.5	126.5	960	38	NW	10
13	T	11/21	6	14.2	125.7	950	41	NNW	8
14	T	11/21	12	14.5	125.7	950	41	NNW	1
15	T	11/22	0	14.8	125.6	940	46	N	1
16	T	11/22	6	15.3	125.6	945	41	N	4

17	T	11/22	12	15.6	125.6	945	46	N	5
18	T	11/22	18	15.9	126.2	955	43	NE	5
19	T	11/23	0	16.3	126.5	945	41	NE	5
20	T	11/23	6	16.8	126.3	940	41	NW	3
21	T	11/23	12	17.0	126.2	930	57	N	5
22	T	11/24	0	17.7	125.7	930	51	NW	5
23	T	11/24	6	17.8	125.4	930	51	NNW	3
24	T	11/24	12	17.4	125.3	945	46	0	0
25	T	11/25	0	17.9	125.1	960	46	N	3
26	T	11/25	6	18.1	124.7	975	33	NW	3
27	STS	11/25	18	18.4	124.0	992	26	NW	5
28	TS	11/26	0	18.0	124.2	996	21	NE	3
29	TD	11/26	6	18.0	124.0	1004	15	W	2

20. TC = NWP8320 Name = PERCY All Points = 16

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	11/18	6	9.0	113.0	1004	15	0	0
2	TD	11/18	12	9.0	113.0	1000	15	0	0
3	TS	11/19	0	9.2	113.6	998	18	E	5
4	TS	11/19	6	8.8	112.7	998	18	SW	5
5	STS	11/19	12	8.6	112.6	980	28	0	0
6	STS	11/20	0	8.5	112.0	980	28	W	3
7	T	11/20	6	7.7	111.2	980	33	SW	6
8	T	11/21	0	7.5	112.0	980	33	0	0
9	T	11/21	6	7.5	111.6	980	36	0	0
10	STS	11/21	12	7.5	112.0	980	31	0	0
11	STS	11/22	0	7.5	112.8	985	26	0	0
12	STS	11/22	6	7.5	112.8	990	26	0	0
13	TS	11/22	12	7.8	112.7	996	23	N	3
14	TS	11/23	0	8.6	114.8	1000	23	ENE	5
15	TD	11/23	6	8.5	115.7	1004	15	E	5
16	TD	11/23	12	8.8	116.6	1004	15	ENE	8

21. TC = NWP8321 Name = RUTH All Points = 19

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	11/22	0	9.0	144.0	1004	15	NW	1
2	TD	11/23	0	9.0	141.0	1004	15	W	8
3	TD	11/23	6	9.5	140.5	1004	15	NW	3
4	TD	11/24	0	10.0	140.0	1004	15	NW	3
5	TD	11/24	6	9.0	139.0	1004	15	SW	5
6	TD	11/24	12	9.0	137.5	1005	15	W	10
7	TD	11/25	0	8.5	137.0	1005	15	SW	8
8	TD	11/25	12	9.0	136.0	1005	15	NW	8
9	TD	11/26	0	11.0	133.0	1004	15	NW	15
10	TD	11/27	0	16.0	131.0	1004	15	NNW	10
11	TD	11/27	6	17.0	129.5	1000	15	NW	10
12	TS	11/28	0	17.3	128.6	996	21	NW	3
13	STS	11/28	6	17.8	128.9	990	26	NW	3
14	STS	11/28	12	17.3	128.0	990	26	NW	3
15	STS	11/28	21	18.3	127.6	990	31	NW	6
16	TS	11/29	0	18.4	126.5	1000	23	W	6
17	TS	11/29	6	18.4	126.5	1000	23	0	0
18	TS	11/29	12	18.7	126.2	1006	18	NW	3
19	TD	11/30	0	18.5	126.0	1005	15	SW	3

22. TC = NWP8322 Name = SPERRY All Points = 13

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	11/30	6	7.3	146.5	1004	15	W	5
2	TD	11/30	12	7.5	145.0	1006	15	W	10
3	TD	12/01	0	11.0	142.5	1006	15	NW	15

4	TD	12/01	6	11.0	139.5	1004	15	W	15
5	TD	12/01	12	11.0	138.0	1004	15	W	10
6	TD	12/02	12	14.0	134.5	1006	15	NW	15
7	TS	12/03	0	16.8	131.3	996	23	WNW	7
8	TS	12/03	6	17.0	131.5	996	23	NW	6
9	TS	12/03	12	18.1	132.6	992	23	N	5
10	TS	12/04	0	18.0	132.5	996	23	ENE	4
11	TS	12/04	6	18.5	133.5	1000	23	0	0
12	TS	12/04	18	19.0	136.5	1002	18	NE	12
13	TD	12/05	0	19.5	137.0	1004	15	NE	8

**23. TC = NWP8323 Name = THELMA All Points = 11**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	12/15	6	11.2	140.2	1004	15	W	5
2	TD	12/15	12	11.5	141.8	1002	15	WNW	8
3	TS	12/16	0	12.0	135.0	996	23	W	15
4	TS	12/16	12	13.8	133.5	994	23	WNW	12
5	TS	12/16	18	14.5	133.0	992	23	NW	10
6	STS	12/17	0	14.6	133.5	990	28	NNW	5
7	STS	12/17	6	15.6	133.8	990	26	NNW	6
8	STS	12/17	12	15.9	133.3	996	26	NW	3
9	TS	12/17	18	16.3	134.2	996	23	NE	6
10	TS	12/18	0	17.0	136.5	1000	21	NE	20
11	TD	12/18	6	18.0	140.0	1006	15	NE	30

**1983. Northeast Pacific Ocean**

**1. TC = NEP8301 Name = ADOLPH All Points = 30**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	05/21	0	5.7	-92.0	1009	13	W	10
2	TD	05/21	6	7.0	-93.0	1009	13	WNW	15
3	TS	05/21	18	7.9	-94.9	1005	21	W	9
4	TS	05/22	0	8.7	-96.0	1000	23	NW	11
5	STS	05/22	6	9.0	-97.3	997	26	WNW	13
6	TS	05/22	12	9.2	-99.1	1000	23	WNW	15
7	STS	05/22	18	9.0	-98.9	997	26	W	11
8	STS	05/23	0	9.4	-99.9	994	28	WNW	11
9	STS	05/23	6	9.7	-100.5	994	28	WNW	8
10	STS	05/23	12	9.6	-101.0	994	28	W	7
11	T	05/23	18	9.7	-101.5	987	33	WNW	6
12	T	05/24	0	10.9	-102.4	977	41	NW	8
13	T	05/24	6	11.6	-103.2	965	49	NW	9
14	T	05/24	12	12.0	-103.9	965	49	NW	9
15	T	05/24	18	12.5	-104.5	965	49	NW	8
16	T	05/25	0	13.1	-105.1	965	49	NW	8
17	T	05/25	6	13.5	-105.5	970	46	NW	5
18	T	05/25	12	13.8	-105.7	974	44	NW	5
19	T	05/25	18	14.1	-106.4	977	41	NW	6
20	T	05/26	0	14.5	-106.3	987	33	NNW	4
21	STS	05/26	6	15.3	-106.0	991	31	N	6
22	STS	05/26	12	15.9	-105.5	991	31	NNE	7
23	STS	05/26	18	16.5	-105.3	994	28	NNE	7
24	STS	05/27	0	17.4	-105.1	997	26	NNE	8
25	TS	05/27	6	18.2	-105.1	1000	23	N	8
26	TS	05/27	12	19.0	-105.0	1002	21	N	8
27	TS	05/27	18	20.5	-105.5	1005	18	NNW	13
28	TS	05/28	0	21.7	-106.0	1005	18	N	13

29	TS	05/28	6	22.2	-106.2	1005	18	NNW	7
30	TD	05/28	15	22.5	-106.0	1009	15	NE	3

**2. TC = NEP8302 Name = BARBARA All Points = 34**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	06/09	0	11.2	-93.6	1009	15	WNW	5
2	TD	06/09	6	11.1	-94.5	1009	15	W	7
3	TD	06/09	12	11.1	-96.7	1009	15	W	14
4	TD	06/09	18	11.1	-97.9	1009	15	W	13
5	TS	06/10	0	11.3	-98.9	1005	18	W	18
6	TS	06/10	6	11.0	-99.4	1002	21	W	10
7	TS	06/10	12	11.0	-100.7	1002	21	W	12
8	TS	06/10	18	11.0	-100.7	1000	23	W	10
9	TS	06/11	0	11.2	-101.6	1000	23	W	9
10	TS	06/11	6	11.2	-103.2	1000	23	W	8
11	STS	06/11	18	11.5	-104.3	994	28	WNW	6
12	STS	06/12	0	11.8	-105.3	994	28	WNW	8
13	STS	06/12	6	12.0	-107.1	994	28	WNW	14
14	STS	06/12	12	12.0	-108.0	994	28	WNW	12
15	T	06/12	18	12.0	-108.9	987	33	WNW	11
16	T	06/13	3	13.0	-110.1	980	38	WNW	11
17	T	06/13	6	13.0	-110.5	980	38	WNW	6
18	T	06/13	12	13.0	-111.0	960	51	WNW	6
19	T	06/14	0	13.0	-112.2	948	60	WNW	6
20	T	06/14	6	13.0	-112.7	948	60	W	5
21	T	06/14	12	13.0	-113.2	948	60	W	6
22	T	06/14	18	14.0	-113.3	956	54	NW	4
23	T	06/15	0	14.9	-113.7	960	51	NNW	7
24	T	06/15	6	15.2	-114.0	970	46	NNW	5
25	T	06/15	12	15.8	-114.0	970	46	NNW	6
26	T	06/15	18	16.5	-114.1	974	44	N	7
27	T	06/16	0	17.1	-114.1	977	41	N	6
28	T	06/16	6	17.6	-114.0	983	36	N	6
29	T	06/16	12	18.2	-113.8	987	33	N	6
30	STS	06/16	18	18.3	-115.2	994	28	NW	5
31	TS	06/17	0	18.8	-115.6	1000	23	NW	7
32	TD	06/17	18	19.5	-117.5	1009	15	WNW	8
33	TD	06/18	0	19.8	-117.7	1009	13	WNW	6
34	TD	06/18	6	20.0	-118.3	1009	13	WNW	6

**3. TC = NEP8303 Name = COSME All Points = 14**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	07/02	6	10.5	-109.5	1009	13	WNW	10
2	TD	07/02	12	10.8	-110.6	1009	13	WNW	11
3	TD	07/02	18	12.0	-111.8	1009	13	WNW	13
4	TD	07/03	0	12.5	-112.4	1009	13	WNW	11
5	TD	07/03	6	12.7	-113.3	1009	13	WNW	9
6	TD	07/03	12	14.0	-114.2	1009	13	NW	9
7	TD	07/03	18	14.0	-115.0	1009	15	W	8
8	TD	07/04	0	14.8	-113.7	1009	15	NW	5
9	TS	07/04	15	15.0	-113.5	1005	18	NW	5
10	TS	07/04	18	15.7	-114.5	1005	18	NW	13
11	TS	07/05	0	16.7	-116.0	1005	18	NW	16
12	TS	07/05	6	16.7	-117.0	1005	18	NW	10
13	TD	07/05	12	17.0	-118.2	1009	15	WNW	11
14	TD	07/05	18	17.7	-119.5	1009	13	WNW	12

**4. TC = NEP8304 Name = DALILIA All Points = 22**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	07/06	0	12.8	-102.4	1009	15	WNW	9





5	TS	07/28	0	12.3	-99.4	1000	23	WNW	12
6	STS	07/28	6	12.4	-100.0	997	26	WNW	9
7	STS	07/28	12	12.8	-101.6	994	28	WNW	13
8	T	07/28	18	12.7	-102.6	987	33	W	11
9	T	07/29	0	12.6	-103.7	977	41	W	11
10	T	07/29	6	12.5	-104.9	977	41	WNW	12
11	T	07/29	18	12.1	-107.7	970	46	W	13
12	T	07/30	0	11.9	-108.7	960	51	W	11
13	T	07/30	6	12.0	-110.0	952	57	W	12
14	T	07/30	12	12.0	-111.5	952	57	W	14
15	T	07/30	18	12.1	-113.0	952	57	W	14
16	T	07/31	0	12.1	-114.4	948	60	W	14
17	T	07/31	6	12.0	-115.7	948	60	W	13
18	T	07/31	12	12.1	-116.7	948	60	W	11
19	T	07/31	18	12.2	-117.7	960	51	W	10
20	T	08/01	0	12.7	-119.3	960	51	WNW	12
21	T	08/01	6	12.9	-120.2	956	54	WNW	12
22	T	08/01	12	13.5	-121.3	960	51	WNW	12
23	T	08/01	18	13.9	-122.5	970	46	WNW	12
24	T	08/02	0	14.9	-123.9	974	44	WNW	14
25	T	08/02	6	15.3	-124.9	980	38	WNW	13
26	T	08/02	12	15.8	-126.0	983	36	WNW	12
27	T	08/02	18	16.3	-127.3	987	33	WNW	13
28	T	08/03	0	17.0	-128.6	983	36	WNW	13
29	T	08/03	6	17.4	-130.0	987	33	WNW	13
30	T	08/03	12	18.1	-131.0	987	33	WNW	13
31	STS	08/04	0	19.2	-133.5	994	28	WNW	14
32	STS	08/04	6	19.6	-134.8	997	26	WNW	14
33	TS	08/04	12	20.4	-135.7	1000	23	WNW	13
34	TS	08/04	18	21.1	-136.5	1000	23	WNW	13
35	TS	08/05	0	21.9	-137.0	1002	21	NW	9
36	TS	08/05	6	22.6	-138.0	1005	18	NW	10
37	TD	08/05	12	23.6	-137.4	1009	15	N	9
38	TD	08/05	18	24.5	-137.4	1009	15	N	10
39	TD	08/06	0	25.8	-137.0	1009	15	NNE	13
40	TD	08/06	6	27.0	-136.5	1010	13	NNE	13

**9. TC = NEP8309 Name = ISMAEL All Points = 23**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	08/08	18	12.8	-106.5	1009	15	WNW	9
2	TS	08/09	0	13.1	-107.9	1005	18	WNW	14
3	TS	08/09	6	13.4	-109.0	1005	18	WNW	12
4	TS	08/09	12	14.1	-110.1	1005	18	WNW	12
5	TS	08/09	18	14.8	-110.0	1000	23	WNW	11
6	STS	08/10	0	16.0	-111.5	994	28	NW	12
7	STS	08/10	6	16.3	-112.1	994	28	NW	10
8	STS	08/10	12	17.4	-112.8	994	28	NW	10
9	T	08/10	18	18.6	-113.5	987	33	NW	13
10	T	08/11	0	19.4	-114.5	980	38	NW	13
11	T	08/11	6	19.9	-114.9	977	41	NW	11
12	T	08/11	12	20.5	-115.5	974	44	NW	8
13	T	08/11	18	21.2	-115.9	977	41	NNW	8
14	T	08/12	0	21.9	-116.4	980	38	NNW	8
15	T	08/12	6	22.5	-116.5	983	36	NNW	6
16	T	08/12	12	23.6	-116.6	987	33	N	10
17	STS	08/12	18	24.2	-117.1	991	31	NNW	9
18	STS	08/13	0	24.9	-117.4	997	26	NNW	8
19	STS	08/13	6	25.3	-117.3	994	28	N	5
20	TS	08/13	12	25.8	-117.8	1005	18	NNW	6
21	TS	08/13	18	26.7	-118.4	1005	18	NW	8

22	TD	08/14	0	27.3	-118.7	1009	15	NNW	7
23	TD	08/14	6	28.2	-119.0	1010	13	NNW	8

**10. TC = NEP8310 Name = JULIETTE All Points = 26**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	08/24	18	11.2	-107.4	1012	13	WNW	5
2	TD	08/25	0	11.8	-108.3	1012	13	NW	11
3	TD	08/25	6	12.3	-109.3	1012	13	WNW	11
4	TD	08/25	12	12.9	-110.1	1012	13	NW	11
5	TD	08/25	18	13.6	-111.0	1009	15	NW	11
6	TD	08/26	0	14.1	-112.1	1009	15	WNW	11
7	TD	08/26	12	14.0	-115.5	1009	15	W	15
8	TS	08/26	18	13.6	-116.2	1005	18	W	14
9	TS	08/27	0	13.9	-116.5	1002	21	W	7
10	TS	08/27	6	14.0	-117.1	1002	21	W	7
11	TS	08/27	12	14.2	-118.0	1002	21	W	8
12	TS	08/27	18	15.7	-116.9	1002	21	NNW	7
13	TS	08/28	0	16.6	-117.3	1005	18	NNW	9
14	TS	08/28	6	17.4	-117.4	1005	18	N	9
15	TS	08/28	12	17.5	-117.8	1005	18	NNW	5
16	TS	08/28	18	18.3	-118.5	1005	18	NW	8
17	STS	08/29	0	18.5	-119.2	997	26	NW	8
18	STS	08/29	6	18.9	-120.0	997	26	WNW	8
19	TS	08/29	18	18.0	-121.1	1002	21	W	8
20	TS	08/30	0	18.3	-122.0	1002	21	W	8
21	TS	08/30	6	18.4	-122.0	1005	18	0	0
22	TS	08/30	12	18.3	-122.6	1005	18	W	5
23	TD	08/30	18	18.6	-123.6	1009	15	W	6
24	TD	08/31	6	19.7	-124.9	1009	13	NW	7
25	TD	08/31	18	20.9	-125.0	1009	13	NNW	7
26	TD	09/01	6	22.0	-126.0	1009	13	NW	8

**11. TC = NEP8311 Name = KIKO All Points = 32**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	08/31	6	12.2	-102.1	1009	13	W	6
2	TD	08/31	12	12.3	-102.6	1009	15	W	6
3	TS	08/31	18	12.5	-102.5	1005	18	WNW	5
4	TS	09/01	0	12.8	-102.5	1002	21	WNW	5
5	TS	09/01	6	13.3	-103.0	1000	23	NW	9
6	T	09/01	18	14.7	-103.5	960	51	NNW	8
7	T	09/02	0	15.3	-104.3	948	60	NW	9
8	T	09/02	6	15.8	-105.0	948	60	NW	9
9	T	09/02	12	16.0	-105.4	948	60	NW	8
10	T	09/02	18	16.7	-106.2	948	60	NW	9
11	T	09/03	0	17.1	-106.5	948	60	NW	8
12	T	09/03	12	18.3	-107.7	941	62	NW	8
13	T	09/03	18	19.0	-108.4	937	65	NW	10
14	T	09/04	0	19.6	-109.3	937	65	NW	11
15	T	09/04	6	20.6	-110.1	948	60	NW	8
16	T	09/04	12	20.1	-110.9	952	57	W	8
17	T	09/04	18	20.6	-111.6	948	60	WNW	8
18	T	09/05	0	20.7	-112.4	960	51	W	8
19	T	09/05	6	21.0	-112.9	965	49	WNW	6
20	T	09/05	12	21.0	-113.4	970	46	W	5
21	T	09/05	18	21.1	-114.0	970	46	W	5
22	T	09/06	0	21.5	-114.5	970	46	WNW	5
23	T	09/06	12	22.2	-115.6	983	36	NW	6
24	T	09/06	18	22.2	-116.2	987	33	WNW	6
25	T	09/07	0	22.3	-116.6	987	33	W	4
26	STS	09/07	6	22.3	-117.3	991	31	W	5

27	STS	09/07	12	22.4	-117.8	994	28	W	5
28	TS	09/08	0	22.9	-118.7	1000	23	WNW	5
29	TS	09/08	6	23.2	-119.3	1002	21	WNW	6
30	TS	09/08	12	23.8	-119.4	1005	18	NW	6
31	TD	09/08	18	24.4	-119.7	1009	15	NNW	7
32	TD	09/09	0	25.2	-119.9	1009	13	NNW	8

**12. TC = NEP8312 Name = LORENA All Points = 30**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	09/06	6	15.5	-100.0	1009	15	W	5
2	TD	09/06	12	15.8	-101.0	1009	15	WNW	5
3	TS	09/06	18	15.5	-100.5	1005	18	W	3
4	TS	09/07	0	15.5	-100.5	1005	18	0	0
5	TS	09/07	6	15.2	-101.2	1000	23	W	3
6	STS	09/07	12	15.1	-101.6	994	28	WSW	4
7	T	09/08	0	15.6	-102.0	987	33	W	4
8	T	09/08	6	15.8	-102.8	970	46	WNW	7
9	T	09/08	12	16.2	-103.4	961	51	WNW	8
10	T	09/08	18	16.8	-104.3	961	51	WNW	10
11	T	09/09	0	17.8	-105.3	974	44	NW	13
12	T	09/09	6	18.3	-106.1	977	41	NW	9
13	T	09/09	12	18.9	-107.0	977	41	NW	10
14	T	09/09	18	19.1	-108.1	974	44	WNW	10
15	T	09/10	0	19.7	-109.3	974	44	WNW	10
16	T	09/10	6	20.1	-110.0	977	41	WNW	10
17	T	09/10	12	20.6	-110.7	974	44	WNW	10
18	T	09/10	18	20.9	-111.6	970	46	WNW	8
19	T	09/11	0	20.8	-112.1	970	46	W	6
20	T	09/11	6	21.2	-113.0	970	46	W	7
21	T	09/11	12	22.2	-115.7	980	38	WNW	10
22	T	09/11	18	21.7	-114.5	977	41	W	8
23	T	09/12	0	22.2	-115.7	980	38	WNW	10
24	T	09/12	12	22.8	-118.1	987	33	WNW	12
25	STS	09/12	18	22.8	-118.3	994	28	W	10
26	STS	09/13	0	23.1	-120.0	997	26	WNW	11
27	TS	09/13	6	23.2	-121.0	1002	21	W	10
28	TS	09/13	12	23.4	-121.6	1005	18	W	8
29	TD	09/13	18	24.4	-123.0	1009	15	WNW	10
30	TD	09/14	0	25.0	-124.0	1009	15	WNW	10

**13. TC = NEP8313 Name = MANUEL All Points = 29**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	09/12	6	12.0	-99.2	1009	15	W	7
2	TS	09/12	18	12.9	-100.8	1002	21	WNW	9
3	STS	09/13	0	13.4	-102.0	997	26	WNW	11
4	STS	09/13	6	13.6	-103.2	994	28	WNW	12
5	STS	09/13	12	13.1	-103.8	994	28	W	9
6	STS	09/13	18	13.5	-104.5	991	31	WNW	9
7	STS	09/14	0	13.6	-105.1	991	31	W	7
8	T	09/14	6	13.8	-105.6	983	36	W	5
9	T	09/14	12	14.0	-106.2	980	38	W	7
10	T	09/14	18	14.3	-106.5	977	41	WNW	9
11	T	09/15	0	15.1	-108.5	987	33	WNW	10
12	T	09/15	12	16.2	-110.2	980	38	NW	10
13	T	09/15	18	16.7	-111.2	980	38	WNW	11
14	T	09/16	0	16.7	-112.0	977	41	WNW	9
15	T	09/16	6	17.0	-112.4	977	41	WNW	7
16	T	09/16	12	17.2	-112.7	977	41	WNW	5
17	T	09/16	18	18.4	-113.4	974	44	NW	8
18	T	09/17	0	19.2	-114.2	970	46	NW	10

19	T	09/17	6	19.9	-114.8	961	51	NW	10
20	T	09/17	12	20.9	-115.3	961	51	NNW	11
21	T	09/17	18	22.0	-116.1	970	46	NNW	13
22	T	09/18	0	22.9	-118.5	977	41	WNW	13
23	T	09/18	6	23.6	-117.4	980	38	NW	10
24	T	09/18	12	24.9	-117.8	987	33	NNW	12
25	STS	09/18	18	25.2	-118.8	994	28	NW	10
26	TS	09/19	6	26.7	-119.6	1005	18	NNW	10
27	TS	09/19	12	27.7	-118.9	1005	18	NNE	11
28	TD	09/19	18	28.5	-119.0	1009	15	NNE	10
29	TD	09/20	0	29.2	-118.7	1009	13	NNE	8

**14. TC = NEP8314 Name = NARDA All Points = 38**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	09/21	0	15.1	-112.0	1009	15	W	10
2	TS	09/21	6	15.5	-112.5	1005	18	W	8
3	TS	09/21	12	15.8	-113.9	1005	18	W	10
4	TS	09/21	18	15.6	-114.7	1005	18	W	10
5	TS	09/22	0	15.5	-115.7	1005	18	W	10
6	TS	09/22	6	15.6	-116.7	1005	18	W	10
7	TS	09/22	12	15.7	-117.9	1005	18	W	10
8	TS	09/22	18	15.8	-118.9	1005	18	W	10
9	TS	09/23	0	15.8	-119.6	1005	18	W	8
10	TS	09/23	6	15.9	-120.6	1002	21	W	8
11	TS	09/23	18	16.1	-122.6	997	23	W	11
12	TS	09/24	0	15.9	-123.5	997	23	W	10
13	TS	09/24	6	15.9	-124.3	997	23	W	9
14	TS	09/24	12	15.9	-124.7	997	23	W	5
15	TS	09/24	18	15.9	-126.6	997	23	W	8
16	TS	09/25	0	16.0	-126.5	997	23	W	9
17	TS	09/25	6	16.0	-127.6	997	23	W	10
18	TS	09/25	12	16.1	-128.5	1002	21	W	9
19	TS	09/25	18	16.4	-129.6	1002	21	W	10
20	TS	09/26	0	16.4	-130.7	1002	21	W	10
21	TD	09/26	6	16.5	-131.7	1009	15	W	10
22	TD	09/26	12	16.7	-132.8	1009	15	W	11
23	TD	09/26	18	16.8	-134.6	1009	15	W	11
24	TD	09/27	0	16.9	-136.0	1009	15	W	14
25	TD	09/27	6	17.0	-137.4	1009	15	W	14
26	TD	09/27	12	17.3	-139.0	1009	15	W	15
27	TS	09/27	18	17.2	-141.3	1005	18	W	21
28	TS	09/28	0	17.3	-142.4	1005	18	W	15
29	TS	09/28	6	17.5	-144.0	1005	18	W	15
30	TS	09/28	12	17.6	-146.0	1002	21	W	18
31	STS	09/29	6	17.5	-151.5	991	31	W	18
32	STS	09/29	12	17.4	-153.1	991	31	W	16
33	TD	09/29	18	17.0	-154.5	1009	15	W	14
34	TS	09/30	0	16.5	-155.6	1000	23	W	12
35	TS	09/30	6	16.0	-157.0	1000	23	WSW	14
36	TS	09/30	12	15.6	-158.5	1000	23	WSW	14
37	TS	09/30	18	14.7	-159.5	1005	18	SW	12
38	TD	10/01	0	14.7	-161.4	1009	13	W	10

**15. TC = NEP8315 Name = OCTAVE All Points = 17**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	09/27	18	11.8	-118.2	1009	13	W	14
2	TD	09/28	0	12.0	-119.5	1009	15	W	14
3	TD	09/28	6	12.2	-120.0	1009	15	WNW	8
4	TD	09/28	12	12.3	-121.3	1009	15	WNW	10
5	TS	09/28	15	14.1	-121.1	1005	18	NNW	10

6	TS	09/29	0	14.4	-121.8	1000	23	NNW	7
7	TS	09/29	6	15.5	-120.8	1002	21	NNE	9
8	TS	09/29	12	15.7	-119.5	1002	21	ENE	12
9	TS	09/29	18	15.2	-120.9	1002	21	NE	6
10	TS	09/30	0	15.4	-120.9	1005	18	NE	3
11	TS	09/30	12	16.0	-120.3	1005	18	NE	4
12	TS	10/01	0	17.5	-119.5	1002	21	NNE	10
13	TD	10/01	6	18.2	-119.0	1009	15	NNE	10
14	TD	10/01	12	19.0	-118.7	1009	13	NNE	9
15	TD	10/01	18	21.3	-118.5	1009	13	N	14
16	TD	10/02	0	22.4	-118.0	1009	13	NNE	13
17	TD	10/02	6	23.5	-117.5	1009	13	NNE	13

**16. TC = NEP8316 Name = PRISCILLA All Points = 23**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	09/30	18	11.7	-108.5	1009	13	W	8
2	TD	10/01	0	11.6	-109.0	1009	13	W	7
3	TD	10/01	6	12.3	-110.0	1009	15	WNW	8
4	TD	10/01	12	12.7	-111.0	1009	15	WNW	10
5	TS	10/01	18	12.9	-111.6	1005	18	WNW	8
6	TS	10/02	0	13.0	-112.6	1002	21	WNW	10
7	TS	10/02	6	13.2	-113.5	1000	23	WNW	9
8	STS	10/02	12	13.5	-114.4	997	26	WNW	10
9	STS	10/02	18	13.7	-115.0	994	28	WNW	8
10	T	10/03	0	13.9	-115.5	987	33	WNW	7
11	T	10/03	6	14.2	-116.2	983	36	WNW	8
12	T	10/03	12	14.8	-117.5	970	46	WNW	7
13	T	10/04	0	15.2	-118.2	961	51	NW	8
14	T	10/04	6	15.5	-118.4	961	51	NW	5
15	T	10/04	12	16.4	-118.5	961	51	NNW	8
16	T	10/04	18	17.4	-118.9	965	49	NNW	10
17	T	10/05	0	18.3	-119.0	974	44	N	9
18	T	10/05	6	19.2	-119.1	977	41	N	10
19	T	10/05	12	20.2	-119.0	980	38	N	10
20	T	10/05	18	21.4	-119.7	987	33	N	12
21	STS	10/06	0	22.4	-119.9	994	28	N	10
22	TS	10/06	6	23.5	-120.2	1000	23	NNW	11
23	TD	10/06	12	24.0	-121.0	1009	15	NNW	5

**17. TC = NEP8317 Name = RAYMOND All Points = 48**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	10/08	6	13.0	-105.0	1009	15	W	10
2	TD	10/08	12	12.2	-105.2	1009	15	SW	8
3	TD	10/08	18	12.3	-105.9	1009	15	W	7
4	TS	10/09	0	12.5	-106.4	1005	18	W	6
5	TS	10/09	6	12.5	-107.1	1005	18	W	7
6	TS	10/09	12	12.5	-108.5	1005	18	W	11
7	TS	10/09	18	12.4	-109.8	1000	23	W	12
8	STS	10/10	0	12.4	-111.4	994	28	W	12
9	STS	10/10	6	12.3	-112.8	991	31	W	14
10	T	10/10	12	12.0	-116.3	983	36	W	16
11	T	10/11	0	11.9	-117.7	948	60	W	14
12	T	10/11	6	12.2	-119.4	941	62	W	16
13	T	10/11	12	12.3	-121.1	937	65	W	16
14	T	10/11	18	12.8	-122.8	937	65	W	16
15	T	10/12	0	13.1	-124.3	948	60	W	13
16	T	10/12	6	13.6	-126.1	952	57	WNW	17
17	T	10/12	12	13.9	-127.6	960	51	WNW	16
18	T	10/12	18	14.2	-129.4	960	51	W	18
19	T	10/13	0	14.8	-131.5	960	51	W	20

20	T	10/13	6	15.3	-132.2	965	49	W	19
21	T	10/13	12	15.6	-134.9	965	49	W	16
22	T	10/13	18	16.4	-136.5	965	49	WNW	18
23	T	10/14	0	16.8	-138.2	952	57	WNW	18
24	T	10/14	6	16.8	-139.3	952	57	W	12
25	T	10/14	12	17.1	-140.9	952	57	W	14
26	T	10/14	18	17.5	-142.2	941	62	W	14
27	T	10/15	0	17.8	-143.5	941	62	W	13
28	T	10/15	6	18.1	-144.5	952	57	W	12
29	T	10/15	12	18.2	-145.8	952	57	W	10
30	T	10/15	18	18.9	-145.9	983	36	WNW	10
31	STS	10/16	0	19.3	-146.6	997	26	WNW	8
32	STS	10/16	6	19.5	-147.3	991	31	WNW	8
33	STS	10/16	12	19.9	-148.0	991	31	WNW	8
34	STS	10/16	18	20.2	-147.3	997	26	NW	3
35	STS	10/17	0	20.2	-147.3	997	26	0	0
36	STS	10/17	6	20.7	-147.3	997	26	0	0
37	STS	10/17	12	21.1	-148.3	997	26	NW	8
38	STS	10/17	18	21.8	-148.2	997	26	NNW	5
39	TS	10/18	0	22.6	-149.0	1000	23	NNW	5
40	TS	10/18	6	22.6	-149.0	1002	21	0	0
41	TS	10/18	12	22.2	-150.0	1002	21	0	0
42	TD	10/18	18	22.2	-150.5	1009	15	W	5
43	TD	10/19	0	22.0	-151.6	1009	15	W	8
44	TD	10/19	6	21.8	-152.5	1009	15	W	9
45	TD	10/19	12	21.7	-153.5	1009	15	W	10
46	TD	10/19	18	21.2	-154.5	1009	15	WSW	10
47	TD	10/20	0	20.9	-155.4	1009	13	WSW	10
48	TD	10/20	12	20.3	-157.5	1009	13	WSW	10

**18. TC = NEP8318 Name = SONIA All Points = 16**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	10/09	18	13.2	-130.1	1009	15	W	7
2	TS	10/10	0	13.9	-130.7	1005	18	NW	10
3	TS	10/10	6	14.5	-131.3	1005	18	NNW	7
4	TS	10/10	12	15.0	-134.2	1005	18	WNW	13
5	TD	10/11	0	14.6	-135.3	1009	15	W	13
6	TD	10/11	6	14.6	-136.5	1009	15	W	12
7	TD	10/11	12	14.6	-137.3	1009	15	W	10
8	TD	10/11	18	14.2	-138.6	1009	13	WSW	9
9	TD	10/12	0	13.9	-139.8	1009	13	WSW	5
10	TS	10/13	0	12.2	-144.1	1005	18	WSW	10
11	TS	10/13	6	11.8	-145.5	1005	18	WSW	10
12	TS	10/13	12	11.5	-147.5	1005	18	W	12
13	TS	10/13	18	11.4	-148.6	1005	18	W	15
14	TS	10/14	0	11.3	-149.7	1002	21	W	11
15	TS	10/14	12	11.1	-151.0	1002	21	W	5
16	TD	10/14	18	11.0	-152.0	1009	15	W	5

**19. TC = NEP8319 Name = TICO All Points = 34**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	10/11	12	8.5	-101.4	1009	13	W	7
2	TD	10/11	18	8.5	-102.2	1009	15	W	8
3	TD	10/12	0	8.7	-103.0	1009	15	W	8
4	TD	10/12	6	8.9	-103.4	1009	15	W	7
5	TD	10/12	12	9.8	-102.0	1009	15	NW	10
6	TD	10/12	18	10.0	-102.7	1009	15	NW	6
7	TS	10/13	0	11.6	-102.8	1005	18	N	12
8	TS	10/13	6	12.1	-102.8	1005	18	N	8
9	TS	10/13	12	13.2	-102.7	1002	21	N	10

10	TS	10/13	18	13.7	-102.7	1000	23	N	8
11	STS	10/14	0	14.3	-102.8	994	28	N	5
12	T	10/14	12	15.2	-102.9	980	38	N	5
13	T	10/14	18	15.7	-103.2	977	41	NNW	5
14	T	10/15	0	16.0	-103.5	980	38	NNW	4
15	T	10/15	6	16.3	-103.9	980	38	NNW	4
16	T	10/15	12	16.4	-104.3	977	41	NW	4
17	T	10/15	18	16.5	-104.5	977	41	NW	3
18	T	10/16	0	16.7	-104.3	977	41	NW	5
19	T	10/16	6	17.0	-105.2	980	38	NW	4
20	T	10/16	12	17.5	-105.9	977	41	NW	6
21	T	10/16	18	17.3	-106.8	965	49	W	8
22	T	10/17	0	17.3	-107.8	960	51	W	8
23	T	10/17	6	17.6	-108.4	970	46	W	8
24	T	10/17	12	17.5	-109.0	960	51	W	7
25	T	10/17	18	17.6	-109.7	960	51	W	7
26	T	10/18	0	17.8	-110.2	960	51	W	7
27	T	10/18	6	18.3	-110.6	956	54	NW	6
28	T	10/18	12	18.8	-110.7	952	57	NNW	5
29	T	10/18	18	19.3	-110.3	956	54	NNE	6
30	T	10/19	0	20.2	-109.5	948	60	NE	6
31	T	10/19	6	21.1	-108.4	952	57	NE	15
32	T	10/19	12	22.3	-107.0	970	46	NE	17
33	T	10/19	15	22.9	-106.2	970	46	NE	17
34	TD	10/20	12	23.0	-105.0	1009	15	NE	10

**20. TC = NEP8320 Name = VELMA All Points = 7**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	11/01	18	7.8	-100.8	1009	15	W	7
2	TS	11/02	0	7.7	-101.5	1005	18	W	7
3	TS	11/02	6	7.6	-102.1	1005	18	W	7
4	TS	11/02	12	7.4	-102.5	1005	18	WSW	5
5	TD	11/02	18	8.4	-103.7	1009	13	WNW	7
6	TD	11/03	0	8.3	-104.4	1009	13	W	6
7	TD	11/03	6	8.6	-105.2	1009	13	W	6

**21. TC = NEP8321 Name = WINNIE All Points = 12**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	12/04	12	12.8	-102.9	1009	15	NNW	5
2	TD	12/04	18	13.9	-103.7	1009	15	NW	10
3	TS	12/05	0	14.9	-104.5	1005	18	NNW	10
4	TS	12/05	12	16.2	-104.5	1005	18	N	8
5	STS	12/05	18	16.7	-104.1	987	31	NNE	8
6	T	12/06	0	17.0	-104.1	983	36	N	4
7	T	12/06	6	17.0	-104.1	977	41	0	0
8	T	12/06	12	17.0	-104.0	977	41	0	0
9	T	12/06	18	17.0	-104.0	980	38	0	0
10	STS	12/07	0	17.0	-104.0	994	28	NE	3
11	TS	12/07	6	17.0	-104.0	1005	18	0	0
12	TD	12/07	12	17.0	-104.0	1009	13	0	0

**1983. North Atlantic Ocean**

**1. TC = ATL83-1 Name = NO NAME All Points = 4**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	07/28	10	14.5	-65.5	1009	15	WNW	12
2	TD	07/28	22	14.8	-68.8	1009	15	W	14

3	TD	07/29	4	15.2	-70.0	1009	15	W	13
4	TD	07/29	10	15.5	-72.5	1009	15	WNW	15

**2. TC = ATL83-2 Name = NO NAME All Points = 11**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	07/30	20	14.8	-45.0	1009	15	W	12
2	TD	07/31	4	15.5	-47.2	1009	15	WNW	12
3	TD	07/31	10	15.7	-48.4	1009	15	WNW	12
4	TD	07/31	16	15.0	-51.0	1009	15	WSW	16
5	TD	07/31	22	16.5	-53.5	1009	15	WNW	16
6	TD	08/01	0	17.0	-56.0	1009	15	WNW	15
7	TD	08/01	16	17.2	-58.0	1009	15	W	15
8	TD	08/01	22	17.8	-59.8	1010	13	WNW	15
9	TD	08/02	4	18.5	-61.5	1010	13	WNW	15
10	TD	08/02	10	19.0	-63.1	1010	13	WNW	15
11	TD	08/02	16	19.8	-68.0	1010	13	WNW	20

**3. TC = ATL8301 Name = ALICIA All Points = 14**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	08/15	0	27.3	-91.0	1009	15	W	5
2	TS	08/15	22	27.2	-91.3	1002	21	W	5
3	TS	08/16	4	27.0	-91.8	1002	21	W	5
4	TS	08/16	10	27.0	-92.5	1000	23	W	5
5	STS	08/16	16	27.0	-92.5	994	28	0	0
6	T	08/16	22	27.3	-93.1	983	36	WNW	4
7	T	08/17	4	27.7	-93.7	983	36	WNW	5
8	T	08/17	10	27.8	-94.2	983	36	WNW	5
9	T	08/17	16	28.0	-94.5	980	38	WNW	4
10	T	08/17	22	28.1	-94.6	965	49	0	0
11	T	08/18	4	28.5	-94.9	963	51	NW	4
12	T	08/18	10	29.3	-95.3	963	51	NW	6
13	T	08/18	16	30.8	-95.6	987	33	NNW	9
14	TD	08/18	19	31.0	-96.0	1009	15	NNW	11

**4. TC = ATL8302 Name = BARRY All Points = 22**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	08/23	0	26.0	-76.0	1009	15	N	5
2	TS	08/23	16	26.8	-76.2	1002	21	NNW	5
3	TS	08/24	4	27.0	-76.2	1000	23	NNW	5
4	STS	08/24	10	28.0	-76.6	997	26	NNW	5
5	STS	08/24	16	28.4	-76.8	997	26	NNW	5
6	STS	08/24	22	28.2	-78.0	997	26	W	8
7	STS	08/25	4	28.2	-79.1	997	26	W	8
8	TS	08/25	10	28.0	-80.3	1005	18	W	10
9	TD	08/25	16	27.8	-81.5	1009	13	W	10
10	TD	08/25	22	27.5	-83.5	1009	13	W	14
11	TD	08/26	4	27.1	-84.5	1009	13	W	12
12	TD	08/26	10	25.5	-86.5	1009	15	W	12
13	TD	08/26	16	25.5	-87.4	1009	15	W	10
14	TD	08/26	22	25.5	-89.0	1009	15	W	13
15	TS	08/27	10	25.3	-91.3	1002	21	W	12
16	TS	08/27	16	26.0	-92.0	1005	18	WNW	12
17	TS	08/27	22	25.9	-94.2	1000	23	W	12
18	STS	08/28	4	25.9	-95.1	991	31	W	13
19	T	08/28	10	25.5	-96.5	986	36	W	13
20	T	08/28	16	25.5	-97.0	987	33	W	5
21	TS	08/28	22	25.4	-98.3	1002	21	W	10
22	TD	08/29	0	25.5	-99.0	1009	15	W	9

**5. TC = ATL8303 Name = CHANTAL All Points = 19**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	09/10	16	30.4	-64.2	1009	15	NE	3
2	TD	09/10	22	31.2	-63.9	1009	15	NNE	7
3	TS	09/11	4	32.0	-63.0	1002	21	NE	9
4	TS	09/11	10	32.4	-61.9	1002	21	NE	9
5	STS	09/11	16	32.8	-60.3	996	28	ENE	9
6	T	09/11	22	33.0	-59.0	994	33	ENE	11
7	T	09/12	4	33.5	-57.5	994	33	ENE	11
8	T	09/12	10	33.8	-56.6	994	33	ENE	11
9	T	09/12	16	34.2	-55.2	994	33	ENE	11
10	T	09/12	22	34.9	-54.4	994	33	ENE	11
11	STS	09/13	4	35.2	-54.0	995	31	NE	9
12	STS	09/13	10	35.5	-54.0	996	28	NNE	7
13	TS	09/13	16	36.3	-54.2	1000	23	NNE	6
14	TS	09/13	22	36.6	-54.0	1000	23	NNE	5
15	TS	09/14	4	37.2	-53.5	1002	21	NNE	5
16	TS	09/14	10	38.0	-53.3	1002	21	NNE	6
17	TD	09/14	16	39.0	-53.7	1005	18	N	7
18	TD	09/14	22	39.9	-51.4	1009	15	ENE	15
19	L	09/15	4	40.8	-49.8	1009	13	ENE	15

**6. TC = ATL8304 Name = DEAN All Points = 13**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	09/27	0	30.0	-72.5	1009	15	N	3
2	STS	09/27	22	30.7	-72.2	1002	26	N	3
3	STS	09/28	4	31.4	-71.8	1002	26	NNE	7
4	STS	09/28	10	32.2	-71.0	1000	26	NNE	8
5	STS	09/28	16	33.5	-70.5	1000	26	NNE	8
6	STS	09/28	22	34.5	-70.5	999	28	N	8
7	STS	09/29	4	34.6	-71.2	999	28	NW	5
8	STS	09/29	10	34.7	-71.8	999	28	WNW	4
9	STS	09/29	16	35.5	-72.0	999	28	NW	8
10	STS	09/29	22	36.2	-74.3	999	28	WNW	15
11	STS	09/30	4	36.2	-74.3	999	28	WNW	6
12	STS	09/30	10	37.2	-75.5	999	28	NW	9
13	TD	09/30	22	37.3	-76.0	1009	15	NW	7

**1983. North Indian Ocean****1. TC = NIN8301 Name = NO NAME All Points = 4**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	10/02	12	18.0	85.5	998	15	W	5
2	TS	10/03	0	18.0	84.5	992	18	W	5
3	TS	10/03	12	18.0	83.5	992	18	W	6
4	TD	10/03	22	18.0	83.0	998	15	W	5

**2. TC = NIN8302 Name = NO NAME All Points = 3**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	10/14	12	19.5	90.0	999	15	NE	8
2	TS	10/15	0	20.0	90.5	997	18	NE	5
3	TD	10/15	22	20.5	89.0	999	15	WNW	8

**3. TC = NIN83-1 Name = NO NAME All Points = 2**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	10/20	0	18.0	94.0	1000	15	NNW	5
2	TD	10/20	18	18.0	94.5	1000	15	W	3

**4. TC = NIN8303 Name = NO NAME All Points = 8**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	11/06	12	12.9	87.0	1000	15	NW	5
2	TS	11/07	0	15.0	88.5	997	18	N	6
3	TS	11/07	12	16.5	89.5	994	18	NNE	8
4	TS	11/08	0	17.5	90.0	990	21	NNE	5
5	STS	11/08	12	17.5	89.3	985	26	NNE	7
6	STS	11/09	0	19.3	90.6	985	26	NNE	10
7	TS	11/09	12	21.0	92.6	985	21	NNE	10
8	TD	11/09	22	21.5	93.0	997	15	NE	7

**1983. South Indian Ocean****1. TC = SIN8301 Name = IANE All Points = 9**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	01/06	0	-14.5	115.0	1000	15	S	5
2	TS	01/06	3	-15.0	115.0	998	18	E	7
3	TS	01/07	0	-15.0	118.0	996	18	NE	6
4	STS	01/07	18	-16.0	118.0	980	31	SE	6
5	T	01/08	6	-17.5	118.0	976	37	SE	5
6	T	01/08	18	-18.5	118.6	976	37	SE	5
7	T	01/09	6	-19.6	119.5	980	37	SE	5
8	TS	01/09	9	-20.0	119.9	988	21	SE	5
9	TD	01/09	18	-21.0	120.0	998	15	S	7

**2. TC = SIN8302 Name = ELINAH All Points = 16**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	01/10	5	-8.5	47.5	1000	15	W	8
2	TS	01/10	12	-9.3	45.0	998	21	SW	15
3	TD	01/11	0	-11.2	44.1	1000	15	S	6
4	TS	01/11	12	-12.1	44.1	998	18	SW	10
5	TS	01/12	0	-14.0	42.0	998	18	SW	10
6	STS	01/12	13	-15.8	40.9	995	26	SW	8
7	TS	01/13	5	-17.3	38.9	995	21	SW	10
8	STS	01/13	13	-18.0	39.0	988	31	SW	8
9	STS	01/13	23	-19.0	38.0	988	31	SW	6
10	T	01/14	13	-19.0	38.0	975	44	SSW	5
11	STS	01/14	23	-20.0	38.0	980	31	S	5
12	STS	01/15	12	-19.4	38.8	988	31	NE	5
13	TS	01/16	5	-19.5	38.7	995	18	0	0
14	TS	01/16	12	-19.0	38.8	998	18	N	3
15	TS	01/17	0	-19.0	38.0	998	21	0	0
16	TD	01/17	12	-19.0	36.5	1005	15	W	8

**3. TC = SIN8303 Name = NO NAME All Points = 8**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	02/05	12	-18.2	62.8	1005	15	E	5
2	TD	02/06	0	-18.1	63.8	1005	15	E	5
3	TD	02/06	12	-17.6	62.9	1005	15	NW	7
4	TS	02/06	23	-19.0	62.8	1000	18	S	8
5	TS	02/07	11	-17.2	63.2	1000	18	NNE	10
6	TD	02/08	4	-17.2	63.2	1005	15	0	0
7	TD	02/08	11	-17.2	62.5	1005	15	W	8
8	TD	02/08	23	-17.6	62.3	1007	13	SW	2

**4. TC = SIN83-1 Name = NO NAME All Points = 6**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	02/23	9	-18.3	90.0	1010	15	0	0
2	TD	02/23	23	-18.6	90.3	1008	15	SE	10
3	TD	02/24	9	-20.8	87.0	1007	15	SW	15
4	TD	02/25	4	-20.0	91.0	1007	15	ENE	10
5	TD	02/25	21	-21.0	89.0	1003	15	WSW	10
6	TD	02/26	0	-23.0	92.0	1005	13	SE	15

**5. TC = SIN83-2 Name = NO NAME All Points = 7**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	02/26	7	-17.0	63.0	1008	15	S	5
2	TD	02/26	11	-17.5	62.5	1008	15	SE	8
3	TD	02/27	0	-16.5	62.5	1008	15	N	5
4	TD	02/27	12	-15.6	61.0	1008	15	WNW	10
5	TD	02/28	0	-16.0	61.0	1008	15	S	3
6	TD	02/28	21	-15.0	61.0	1008	15	N	8
7	TD	03/01	0	-15.0	56.0	1010	13	W	15

**6. TC = SIN8304 Name = KEN All Points = 8**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	02/28	0	-12.5	120.0	1000	15	S	10
2	TS	02/28	12	-13.0	121.0	998	21	ESE	10
3	TS	03/01	6	-14.0	124.0	995	21	ESE	15
4	TS	03/02	0	-16.0	123.0	995	21	SSW	10
5	TS	03/02	6	-14.0	124.0	995	21	NNE	15
6	TS	03/02	20	-16.0	124.5	995	21	SSE	10
7	TS	03/03	0	-17.0	122.0	1000	18	WSW	15
8	TD	03/03	6	-17.5	123.0	1000	15	W	10

**7. TC = SIN8305 Name = LENA All Points = 12**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	04/05	0	-13.5	115.5	1000	15	S	10
2	TS	04/05	6	-14.0	115.0	998	21	SW	4
3	TS	04/05	21	-15.0	114.0	998	21	SW	7
4	TS	04/06	6	-15.0	114.0	998	21	0	0
5	TS	04/06	21	-17.0	115.0	995	23	SSE	7
6	TS	04/07	0	-17.0	114.0	995	21	W	10
7	TS	04/07	6	-18.0	115.0	995	23	SE	7
8	TS	04/07	12	-18.5	116.0	998	21	SE	7
9	TS	04/07	20	-19.0	117.0	998	21	SE	7
10	TS	04/08	0	-20.0	118.0	998	21	SE	7
11	TS	04/08	6	-20.0	120.0	1000	18	E	15
12	TD	04/08	12	-20.5	120.5	1000	15	SE	10

**8. TC = SIN8306 Name = NAOMY All Points = 17**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	04/21	12	-13.0	82.0	1008	15	0	0
2	TD	04/21	21	-12.5	82.0	1008	15	N	5
3	TS	04/22	12	-10.9	81.7	1000	18	N	8
4	STS	04/23	0	-10.5	81.0	995	26	NW	5
5	STS	04/23	12	-10.0	81.0	995	26	N	5
6	STS	04/24	0	-9.0	82.0	995	26	NE	10
7	STS	04/24	9	-9.0	81.5	995	26	W	3
8	STS	04/25	0	-10.5	81.5	995	26	S	5
9	STS	04/25	9	-10.5	84.5	990	31	E	15
10	STS	04/26	0	-10.5	85.0	990	31	E	3
11	T	04/26	18	-11.2	88.1	985	37	ESE	15
12	T	04/27	0	-13.0	91.0	985	36	ESE	10

13	TS	04/27	12	-14.0	91.9	995	21	SE	8
14	TS	04/28	0	-16.0	92.5	995	21	SSE	10
15	TD	04/28	8	-15.8	95.0	1000	15	E	10
16	TD	04/28	20	-17.5	95.2	1000	15	S	10
17	TD	04/29	8	-17.4	95.7	1005	13	0	0

**9. TC = SIN8307 Name = MONTY All Points = 10**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	04/24	18	-13.0	103.0	1005	15	S	5
2	STS	04/25	0	-15.5	102.5	995	26	SSW	15
3	STS	04/25	6	-17.0	103.0	995	26	SSE	6
4	STS	04/25	18	-17.0	104.5	995	26	E	10
5	STS	04/25	20	-18.4	103.5	995	26	SE	20
6	STS	04/26	6	-20.0	105.0	995	26	SE	10
7	TS	04/26	12	-21.0	108.0	1000	21	ESE	15
8	TS	04/27	0	-21.0	105.0	1000	18	W	15
9	TD	04/27	18	-23.0	107.0	1005	15	SE	15
10	TD	04/28	0	-24.0	108.0	1010	13	SE	10

**10. TC = SIN8308 Name = OSCAR All Points = 13**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	10/25	12	-11.0	87.0	1000	15	SE	10
2	TS	10/26	0	-12.0	88.0	998	21	SSE	10
3	STS	10/26	12	-14.0	89.0	995	26	WNW	15
4	TS	10/27	0	-13.0	86.0	995	21	S	8
5	STS	10/27	12	-14.0	86.2	995	26	0	0
6	STS	10/28	0	-13.9	86.6	990	31	SE	5
7	STS	10/28	12	-15.0	88.0	990	31	SE	5
8	STS	10/29	0	-18.0	90.0	990	31	SE	15
9	STS	10/29	10	-20.2	91.1	990	26	SE	7
10	STS	10/30	0	-22.0	92.0	998	26	SE	8
11	STS	10/30	10	-23.7	94.1	998	26	SE	8
12	TD	10/31	0	-26.0	97.0	1000	15	SE	10
13	TD	10/31	12	-27.0	98.0	1004	13	SE	10

**11. TC = SIN83-3 Name = NO NAME All Points = 5**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	11/11	21	-8.0	92.0	1007	15	S	12
2	TD	11/12	10	-11.0	91.0	1005	15	SSW	15
3	TD	11/13	0	-11.5	92.0	1001	15	ESE	10
4	TD	11/13	10	-15.5	95.5	1005	13	SE	15
5	L	11/14	0	-18.0	98.0	1005	10	SE	15

**12. TC = SIN8309 Name = NO NAME All Points = 8**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	11/22	0	-11.0	65.0	1004	15	S	5
2	TS	11/22	21	-11.5	65.7	1004	18	SE	5
3	TS	11/23	9	-12.0	66.0	1000	21	SE	5
4	TS	11/24	6	-13.0	64.4	1000	21	SW	5
5	TD	11/25	2	-13.5	61.7	1005	15	WNW	8
6	TD	11/25	12	-12.0	62.0	1005	15	N	8
7	TD	11/26	0	-12.0	67.5	1005	15	E	15
8	TD	11/26	12	-12.0	68.5	1008	13	E	10

**13. TC = SIN8310 Name = QUENTON All Points = 8**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	11/27	3	-11.9	111.6	1005	15	SE	6
2	TD	11/27	9	-12.0	112.0	1005	15	SE	6
3	TD	11/27	20	-14.0	114.0	1005	15	SE	10
4	TS	11/28	0	-15.0	115.0	1000	21	SE	6

5	TS	11/28	22	-16.0	116.0	995	21	SE	6
6	TS	11/29	0	-17.0	117.0	997	21	SE	6
7	TD	11/29	9	-16.0	119.0	1000	15	ENE	10
8	TD	11/29	12	-19.0	120.0	1000	15	SSE	15

**14. TC = SIN8311 Name = ANDRY All Points = 24**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	12/05	4	-9.5	65.5	1008	15	SW	5
2	TS	12/05	10	-10.0	64.5	1000	18	SW	5
3	TS	12/05	21	-9.8	64.9	998	21	SW	5
4	STS	12/06	0	-9.5	64.5	995	26	SW	5
5	STS	12/06	12	-9.5	62.5	995	26	SW	5
6	STS	12/06	21	-9.7	61.4	990	31	SW	5
7	T	12/07	6	-9.9	60.5	980	37	SW	7
8	T	12/08	0	-11.0	59.0	980	37	SW	7
9	T	12/08	10	-10.5	55.5	970	44	SW	8
10	T	12/09	4	-11.0	53.7	970	46	SW	8
11	T	12/09	11	-11.2	52.8	960	57	SW	6
12	T	12/09	23	-10.8	51.2	960	63	SW	6
13	T	12/10	12	-10.9	50.1	960	63	SW	6
14	T	12/10	23	-11.2	48.1	950	70	SW	6
15	T	12/11	12	-13.1	46.2	950	70	SW	8
16	T	12/11	23	-14.0	44.6	960	63	SE	5
17	T	12/12	6	-15.7	45.3	960	51	SE	5
18	T	12/12	13	-16.7	45.5	970	51	S	8
19	T	12/12	18	-17.2	45.3	970	46	S	8
20	TS	12/13	13	-19.0	47.0	980	18	SE	10
21	TD	12/14	4	-21.0	49.0	1000	15	SE	10
22	TD	12/14	12	-22.0	49.0	1000	15	S	10
23	TD	12/15	1	-21.7	50.6	1000	15	E	10
24	L	12/15	12	-22.5	49.0	1005	10	SW	8

**15. TC = SIN8312 Name = BAKOLY All Points = 22**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	12/19	12	-9.5	69.5	1005	15	SW	5
2	TS	12/19	22	-9.6	69.4	1000	18	SW	5
3	TS	12/20	3	-9.8	69.3	1000	18	0	0
4	TS	12/20	11	-10.5	68.8	998	21	SW	7
5	TS	12/21	3	-11.3	66.5	998	21	WSW	10
6	TS	12/21	10	-12.0	65.5	995	23	SW	12
7	STS	12/22	0	-11.2	65.3	990	31	SW	10
8	STS	12/22	3	-12.6	62.7	990	31	SW	10
9	STS	12/22	12	-12.8	61.6	990	31	SW	10
10	STS	12/23	4	-14.5	58.9	990	31	WSW	10
11	T	12/24	0	-16.4	57.2	970	57	SW	8
12	T	12/24	11	-17.2	55.9	970	57	SW	6
13	T	12/24	22	-19.0	56.7	970	46	SSE	6
14	T	12/25	3	-19.3	56.7	970	46	S	6
15	STS	12/25	12	-20.3	57.2	980	31	SSE	10
16	T	12/25	16	-20.5	57.5	980	36	SE	5
17	T	12/26	3	-22.3	56.8	980	41	SW	14
18	STS	12/26	11	-23.3	56.9	990	31	SSE	10
19	STS	12/27	3	-24.8	55.6	990	31	SSW	9
20	TS	12/27	12	-26.0	55.0	1000	21	SSW	10
21	TD	12/28	0	-27.0	55.0	1005	13	S	10
22	TD	12/29	3	-27.5	54.1	1005	13	WSW	10

**16. TC = SIN8313 Name = NO NAME All Points = 9**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	12/26	0	-14.0	83.5	1008	15	SW	5

2	TS	12/26	9	-15.0	82.0	1005	18	SW	10
3	TS	12/26	21	-15.5	84.0	1000	18	SE	8
4	TS	12/27	12	-17.0	83.0	1000	18	SW	8
5	TS	12/28	0	-16.7	84.0	1000	18	E	5
6	TD	12/28	12	-17.0	86.0	1005	15	E	10
7	TD	12/29	0	-17.0	86.0	1008	13	0	0
8	TD	12/29	18	-20.0	87.0	1008	13	SSE	10
9	TD	12/30	0	-20.0	88.0	1010	13	E	10

**17. TC Number= SIN83-4Name = NO NAME All Points = 5**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	12/29	12	-19.8	51.5	1005	15	W	10
2	TD	12/30	3	-19.6	50.3	1005	15	W8	
3	TD	12/31	0	-22.0	52.2	1005	15	SSE	5
4	TD	12/31	12	-22.1	50.8	1005	15	W	7
5	TD	01/01	4	-23.5	50.0	1008	13	SSW	7

**1983. Southwest Pacific Ocean**

**1. TC = SWP83-1 Name = NO NAME All Points = 8**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	01/16	0	-18.0	152.0	997	15	SE	10
2	TD	01/16	6	-19.0	153.0	1000	15	SE	10
3	TD	01/16	23	-20.0	155.0	1000	15	ESE	10
4	TD	01/17	0	-21.0	156.0	1000	15	SE	10
5	TD	01/17	6	-20.0	155.0	1000	15	NW	10
6	TD	01/17	21	-22.0	157.0	1004	13	SE	15
7	TD	01/18	21	-22.0	158.0	1005	13	E	5
8	TD	01/19	0	-22.0	159.0	1008	13	E	8

**2. TC = SWP8301 Name = MARK All Points = 14**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	01/23	12	-11.0	175.0	998	15	SW	8
2	TS	01/24	0	-12.0	174.0	990	23	SW	5
3	TS	01/24	6	-13.0	174.0	995	18	SW	5
4	TS	01/25	6	-14.5	174.0	995	18	SW	7
5	TS	01/25	21	-15.8	172.5	995	18	S	5
6	STS	01/26	6	-17.0	172.5	990	26	S	5
7	STS	01/27	12	-20.0	173.0	985	26	SE	5
8	STS	01/28	6	-20.0	175.0	985	26	E	8
9	TS	01/28	12	-20.0	175.0	990	21	0	0
10	TS	01/29	0	-19.0	175.0	990	18	NE	8
11	TD	01/29	21	-17.0	176.0	995	17	NNE	5
12	TD	01/30	0	-17.0	176.0	995	17	0	0
13	TD	01/30	12	-17.0	178.0	995	15	E	8
14	TD	01/31	0	-18.0	-178.0	1000	13	ENE	10

**3. TC = SWP83-2 Name = NO NAME All Points = 4**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	01/24	6	-16.0	-141.0	1005	15	S	10
2	TD	01/25	6	-18.0	-141.0	1005	15	S	8
3	TD	01/25	21	-19.3	-139.7	1005	15	SE	5
4	TD	01/26	0	-19.0	-141.0	1008	13	ENE	10

**4. TC = SWP8302 Name = ELINOR All Points = 37**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	02/13	6	-14.0	156.0	1005	15	SW	5

2	TD	02/14	6	-16.0	154.0	1000	15	SW	15
3	TD	02/14	12	-16.0	155.0	999	15	E	10
4	TD	02/15	6	-16.0	156.0	999	15	E	8
5	TS	02/15	21	-17.0	157.0	995	18	SE	10
6	TS	02/16	0	-17.0	158.0	995	21	E	15
7	TS	02/16	6	-18.0	155.0	995	21	WSW	15
8	TS	02/17	0	-18.0	153.0	995	21	W	10
9	TS	02/17	9	-18.0	152.0	995	21	W	10
10	TD	02/18	18	-16.0	149.0	995	15	NW	10
11	TD	02/19	12	-15.0	150.0	998	15	NE	5
12	TD	02/19	21	-15.0	150.0	1000	15	0	0
13	TD	02/20	0	-15.0	151.0	1000	15	E	5
14	TS	02/20	20	-15.0	152.0	995	18	E	5
15	TS	02/21	6	-15.0	155.0	995	18	E	5
16	TS	02/21	12	-16.0	156.0	995	18	NE	5
17	TS	02/22	0	-16.0	157.0	995	18	E	5
18	TS	02/22	20	-16.0	158.0	995	18	E	5
19	STS	02/23	0	-16.0	158.0	990	26	0	0
20	STS	02/23	20	-16.0	157.0	990	26	W	8
21	STS	02/24	6	-16.0	156.0	990	31	W	8
22	T	02/24	21	-16.0	155.0	980	36	W	8
23	T	02/25	6	-16.0	154.0	970	38	W	8
24	T	02/25	22	-16.0	152.0	975	36	W	10
25	STS	02/26	0	-16.0	152.0	975	31	0	0
26	STS	02/26	6	-16.0	152.0	985	31	0	0
27	STS	02/26	21	-16.5	151.0	985	31	WSW	10
28	STS	02/27	0	-16.0	152.0	985	31	ENE	15
29	STS	02/27	12	-16.0	151.0	985	31	W	8
30	STS	02/28	0	-17.0	152.0	985	31	SE	10
31	STS	02/28	21	-18.0	153.0	990	26	SE	10
32	TS	03/01	6	-19.0	153.0	995	21	S	10
33	TS	03/02	0	-19.0	151.0	995	21	W	5
34	TS	03/02	6	-21.0	152.0	998	21	SE	5
35	TD	03/02	20	-21.0	151.0	1000	15	W	8
36	TD	03/03	0	-21.0	151.0	1000	15	0	0
37	TD	03/03	20	-22.0	150.0	1005	13	SW	8

**5. TC = SWP8303 Name = NISHA All Points = 16**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	02/21	0	-14.0	-142.0	1005	15	SW	5
2	TS	02/21	20	-14.7	-143.2	1000	18	SW	6
3	TS	02/22	20	-15.0	-145.0	995	18	W	5
4	STS	02/23	0	-15.0	-145.0	990	28	0	0
5	STS	02/23	20	-15.0	-147.0	988	31	W	7
6	T	02/24	6	-16.0	-147.0	980	36	S	10
7	T	02/24	21	-16.5	-147.0	980	36	S	5
8	T	02/25	6	-17.0	-147.0	980	36	S	5
9	T	02/25	22	-18.0	-146.0	980	36	SE	5
10	T	02/26	0	-19.0	-145.0	980	36	SE	5
11	T	02/26	6	-19.0	-146.0	980	36	E	8
12	T	02/26	21	-20.5	-143.3	980	36	SE	10
13	T	02/27	0	-21.0	-143.0	980	36	SE	10
14	T	02/27	12	-23.0	-142.0	970	41	SSW	15
15	STS	02/28	0	-24.0	-143.0	990	31	SW	10
16	L	02/28	12	-26.0	-145.0	992	21	SW	12

**6. TC = SWP8304 Name = OSCAR All Points = 18**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	02/23	20	-14.0	177.0	1000	15	S	5
2	TD	02/24	6	-15.0	177.0	1000	15	S	10

3	TS	02/24	21	-13.5	173.5	995	21	WNW	15
4	TS	02/25	6	-13.5	173.0	995	21	W	8
5	TS	02/25	22	-13.0	172.0	995	21	NW	8
6	TS	02/26	0	-14.0	173.0	995	21	SE	15
7	STS	02/26	6	-13.5	172.0	990	26	NW	15
8	STS	02/26	21	-14.3	173.0	985	31	SE	10
9	STS	02/27	0	-16.0	174.0	980	31	SE	7
10	T	02/27	12	-16.0	174.0	970	36	S	5
11	T	02/28	0	-17.0	175.0	970	36	SE	5
12	STS	02/28	21	-17.5	176.0	980	31	SE	5
13	TS	03/01	6	-18.0	177.0	995	21	SE	5
14	TS	03/02	0	-19.0	180.0	1000	18	SE	8
15	TD	03/02	6	-20.0	179.0	1000	15	SE	8
16	TD	03/02	20	-21.5	179.5	1000	15	SW	8
17	TD	03/03	0	-21.0	179.0	1000	13	SE	15
18	TD	03/03	20	-26.0	-178.3	1000	13	SSE	20

**7. TC = SWP8305 Name = PREMA All Points = 5**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	02/26	6	-12.5	-163.0	1000	15	E	10
2	TS	02/26	21	-12.4	-158.0	995	21	E	5
3	TS	02/27	0	-12.0	-158.0	992	21	SE	5
4	TS	02/27	12	-13.0	-157.0	992	23	SE	10
5	TD	02/28	0	-14.0	-154.0	1000	13	ESE	15

**8. TC = SWP8306 Name = REWA All Points = 20**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	03/07	20	-12.0	-148.0	1000	15	0	0
2	TD	03/08	0	-12.0	-148.0	1000	15	0	0
3	TD	03/08	21	-14.0	-149.0	1000	15	SSW	8
4	TD	03/09	4	-12.5	-150.0	1000	15	NE	8
5	TS	03/09	12	-14.0	-150.0	990	21	S	10
6	STS	03/09	21	-15.0	-149.0	990	26	SE	10
7	STS	03/10	0	-15.0	-150.0	985	31	E	15
8	T	03/10	12	-15.0	-151.0	980	33	E	10
9	T	03/11	0	-14.0	-150.0	980	36	NW	10
10	T	03/11	20	-15.5	-152.0	980	36	SW	5
11	T	03/12	0	-15.0	-152.0	980	36	N	3
12	T	03/12	12	-15.0	-150.0	985	33	E	15
13	T	03/12	21	-16.0	-149.0	985	33	SE	10
14	T	03/13	0	-16.0	-149.0	980	36	SE	5
15	STS	03/13	12	-17.0	-146.0	990	31	SE	12
16	STS	03/14	0	-18.0	-144.0	990	31	SE	10
17	STS	03/14	12	-20.0	-143.0	990	31	SE	12
18	STS	03/15	0	-23.0	-140.0	995	26	SE	15
19	TS	03/15	12	-25.0	-138.0	1000	18	SE	15
20	TD	03/16	0	-28.0	-135.0	1005	13	SE	15

**9. TC = SWP8307 Name = SARAH All Points = 12**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	03/24	0	-12.0	176.0	1000	15	0	0
2	TS	03/24	12	-13.0	177.0	995	21	SE	5
3	STS	03/25	0	-14.0	178.0	990	26	SE	5
4	STS	03/25	6	-14.0	179.0	990	28	SE	5
5	STS	03/26	0	-16.0	179.0	990	28	SE	10
6	STS	03/26	6	-15.5	-179.5	990	28	SE	10
7	STS	03/27	0	-18.5	-178.0	985	31	SE	8
8	STS	03/28	0	-21.0	-178.0	980	31	S	8
9	STS	03/28	6	-21.0	-179.0	980	31	S	8
10	STS	03/29	0	-25.0	-179.0	980	31	S	10



11 STS 03/29 6 -26.0 -179.0 985 28 S 7  
 12 L 03/29 21 -29.0 -177.0 990 26 SSE 8

**10. TC = SWP8308 Name = TOMAS All Points = 11**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	03/28	21	-12.0	-159.0	1000	15	W	8
2	TS	03/29	12	-12.0	-161.0	995	21	W	10
3	STS	03/29	21	-15.0	-165.0	995	26	SW	8
4	T	03/30	12	-17.0	-166.0	990	33	SW	10
5	T	03/31	0	-17.0	-167.0	985	33	SW	10
6	STS	03/31	12	-19.0	-168.0	990	26	SW	8
7	TS	03/31	20	-20.0	-169.0	995	21	SW	8
8	TD	04/01	20	-23.0	-167.0	1000	15	SW	5
9	TD	04/02	0	-24.0	-168.0	1000	13	SE	5
10	TD	04/02	12	-23.0	-168.0	1000	13	N	7
11	TD	04/03	0	-22.0	-165.0	1005	13	ENE	10

**11. TC = SWP8309 Name = VEENA All Points = 18**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	04/08	0	-12.0	-139.0	1000	15	0	0
2	TS	04/08	12	-13.0	-140.0	995	21	SW	8
3	TS	04/08	20	-12.0	-144.0	995	23	SW	10
4	TS	04/09	0	-12.0	-144.0	995	23	SW	8
5	STS	04/09	12	-13.5	-146.5	990	31	SW	8
6	STS	04/10	0	-13.0	-147.0	988	31	W	5
7	T	04/10	12	-14.0	-148.0	980	38	SW	5
8	T	04/11	0	-14.0	-146.5	980	41	SW	5
9	T	04/11	12	-14.0	-146.0	985	36	SW	5
10	T	04/11	21	-15.0	-148.0	985	36	SW	5
11	T	04/12	0	-15.0	-148.5	990	36	SW	5
12	T	04/12	12	-16.0	-149.0	995	33	SSW	10
13	T	04/12	20	-18.0	-149.0	1000	33	S	15
14	T	04/13	0	-20.0	-147.0	990	36	SE	15

15 T 04/13 12 -23.0 -145.0 990 36 SE 15  
 16 STS 04/13 21 -24.0 -143.0 995 31 SE 15  
 17 STS 04/13 23 -26.0 -138.5 995 31 SE 20  
 18 L 04/14 20 -35.0 -135.0 1000 15 SE 20

**12. TC = SWP8310 Name = WILLIAM All Points = 13**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	04/15	7	-10.0	-133.0	1005	15	SW	15
2	TD	04/16	6	-12.0	-134.5	1005	15	SW	8
3	TD	04/17	6	-14.0	-137.0	1005	15	SW	5
4	TS	04/18	18	-15.0	-137.0	1000	18	S	7
5	TS	04/18	21	-16.0	-138.0	995	21	SW	5
6	STS	04/19	6	-16.0	-138.0	990	26	0	0
7	STS	04/19	21	-17.5	-140.0	985	31	SW	5
8	T	04/20	6	-18.0	-140.0	975	36	S	5
9	T	04/20	12	-18.0	-140.0	975	41	0	0
10	T	04/21	7	-20.0	-138.0	970	41	SE	8
11	T	04/21	11	-21.0	-136.0	980	36	SE	10
12	STS	04/22	0	-23.0	-132.0	990	31	SE	15
13	L	04/22	12	-25.0	-131.0	995	21	SE	15

**13. TC = SWP8311 Name = FRITZ All Points = 10**

N	Stage	Date	Time	Lat	Long	Pres	Wind	Shift	Vel
1	TD	12/10	10	-16.0	149.0	1002	15	E	5
2	TD	12/10	22	-15.0	150.0	1002	15	NE	7
3	TD	12/11	12	-15.0	152.0	1001	15	E	10
4	TS	12/11	22	-16.0	153.0	995	21	SE	10
5	TS	12/12	0	-14.0	152.0	1000	18	NNW	15
6	TS	12/12	22	-16.0	153.0	1000	18	SE	7
7	TD	12/13	0	-15.0	154.0	1003	15	NE	15
8	TD	12/13	12	-13.0	154.0	1001	15	N	10
9	TD	12/14	0	-15.0	152.0	1007	13	SW	10
10	TD	12/14	6	-18.0	153.0	1010	13	SSE	10