ANNEX

B

CYCLONE STATISTICS AND BEST TRACKS

IN THE BAY OF BENGAL

FOR

1971

SUMMARY OF BAY OF BENGAL
TROPICAL CYCLONES (>34 KT) 1971

	TC 25-71	TC 27-71
TOTAL NUMBER OF WARNINGS	5	5
CALENDAR DAYS OF WARNING	2	2
DISTANCE TRAVELED DURING WARNING PERIOD	458 N MI	663 N MI
MAXIMUM WINDS	100 KT	70 KT

Tropical cyclones in the Bay of Bengal are numbered consecutively from the beginning of the calendar year and are included with those developing in the South Pacific and Indian oceans.

The JTWC area of resposibility in the Bay of Bengal was expanded on 4 June 1971 to include the area north of the equator between the Malay Peninsula and 90E. Only those cyclones that developed or tracked through this area are included in Annex B.

CYCLONE 25-71
271200Z OCT TO 300000Z OCT

I. DATA

A. STATISTICS

1. NUMBER OF WARNINGS ISSUED - 5
2. NUMBER OF WARNINGS WITH CYCLONE INTENSITY - 2
3. TOTAL DISTANCE TRAVELED DURING TROPICAL WARNING PERIOD - 458 N MI

B. CHARACTERISTICS

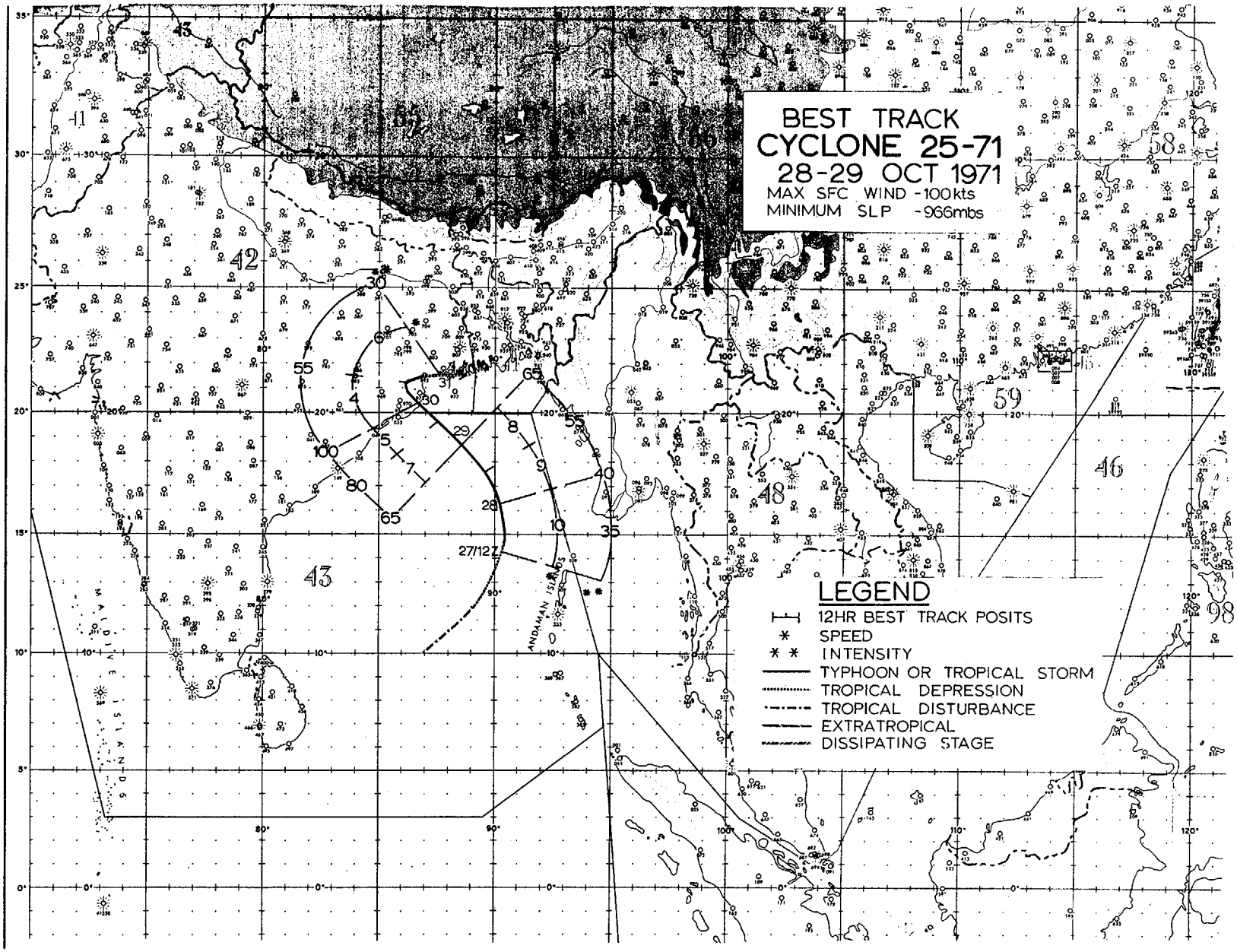
1. MINIMUM OBSERVED SLP - 966 MB
2. MINIMUM OBSERVED 700 MB HEIGHT - 2935 M
3. MAXIMUM SURFACE WIND - 100 KT
4. MAXIMUM RADIUS OF SURFACE CIRCULATION - N/A

II. DEVELOPMENT

A. INITIAL IMPETUS - 25 OCT 1971
B. INITIAL SURFACE VORTEX - 26 OCT 1971
C. DATE STORM REACHED CYCLONE FORCE WINDS - 29 OCT 1971

III. FINAL DISPOSITION

A. DISSIPATED OVER LAND


BEST TRACK
CYCLONE 25-71
28-29 OCT 1971
MAX SFC WIND -100kts
MINIMUM SLP -966mbs
LEGEND
12HR BEST TRACK POSITS
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
TROPICAL DISTURBANCE
EXTRATROPICAL
DISSIPATING STAGE
MALDIVE ISLANDS
ANDAMAN ISLANDS
27/12Z

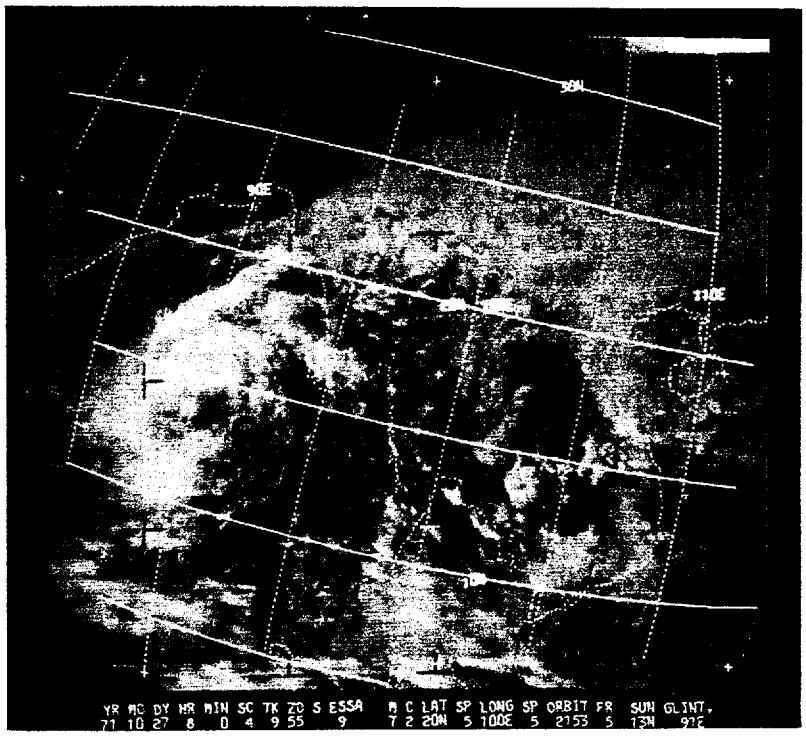


FIGURE B-1. ESSA-9 PHOTO OF THE FORMATIVE STAGES OF CYCLONE 25-71 IN THE BAY OF BENGAL ON 27 OCTOBER.

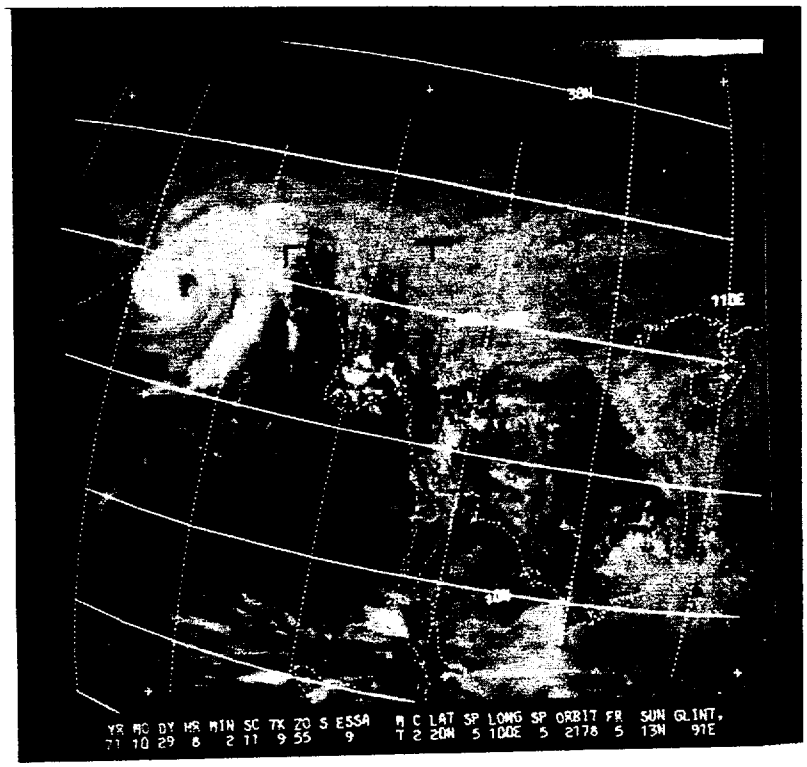


FIGURE B-2. CYCLONE 25-71 AS VIEWED BY ESSA-9 ON 29 OCTOBER BEFORE STRIKING THE INDIAN COAST NEAR CUTTACK.

EYE FIXES FOR TROPICAL CYCLONE 25-71
28 OCT - 29 OCT 71

FIX NO.	TIME	POSIT	UNIT - METHOD - ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700 MB HGT	FLT LVL TI/TO	EYE FORM	ORIEN-TATION	EYE DIA	THKN WALL CLD	REMARKS
1	260352Z	10.5N 87.6E	SATELLITE	WEAK CIRCULATION		----	----	------	-----	----	------	---	----	ESSA-8 DIEGO GARCIA IS.
2	270800Z	13.0N 90.0E	SATELLITE	STG B	-------	----	----	------	-----	----	------	---	----	FIRST BULLETIN
3	280245Z	16.6N 90.0E	54-P-10-15	700	40	40		3075	-----	----	------	40	----	NO RADAR PRESENTATION
4	280859Z	17.5N 90.0E	SATELLITE	STG X	DIA 3.5	CAT 2	----	------	-----	----	------	---	----	ESSA-9
5	290300Z	18.8N 87.0E	54-P-----	700	-------	50	----	------	-----	----	------	---	----	PRELIMINARY FIX
6	290530Z	19.2N 87.9E	54-P-02-05	700	65	50	989	2935	12/10	CIRC	------	30	----	WALL CLD POORLY DEF
7	290802Z	19.0N 87.3E	SATELLITE	STG X	DIA 2.5	CAT 3	----	------	-----	----	------	---	----	ESSA-9

POSITION FROM BEST TRACK AND VERIFICATION DATA
25-71 BAY OF BENGAL

TIME	STORM POSIT LAT	STORM POSIT LONG	24HR ERROR DEG/DIST	48HR ERROR DEG/DIST
280000Z	16.2N	90.2E		
281200Z	17.8N	89.5E		
290000Z	18.9N	88.4E	087°/107 MI	
291200Z	19.7N	87.4E	077°/181 MI	
300000Z	20.7N	86.8E	105°/128 MI	076°/244 MI

AVG 24 HOUR FORECAST ERROR - 139 MI

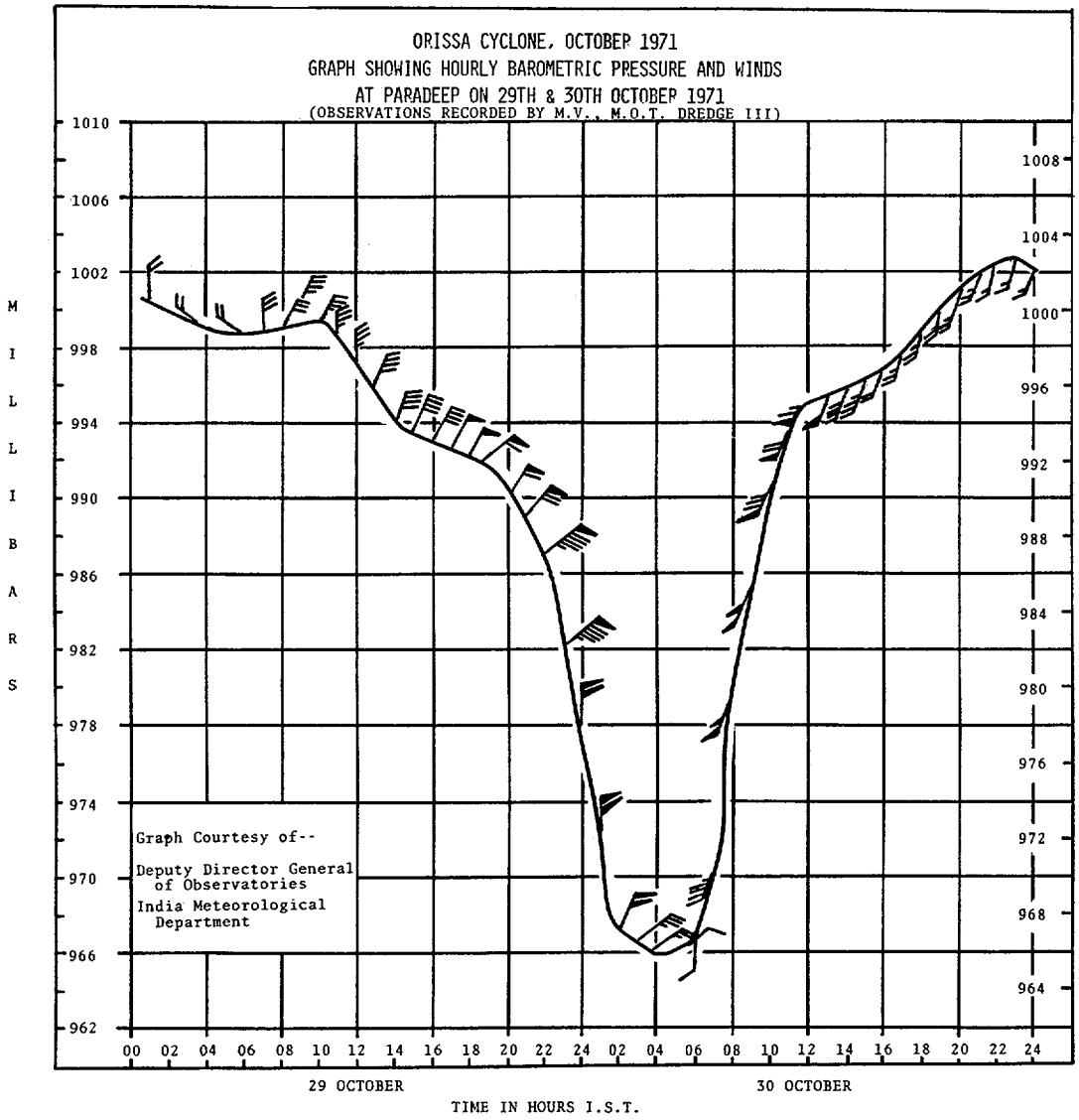


FIGURE B-2a

CYCLONE 27-71
041200Z NOV TO 061200Z NOV

I. DATA

A. STATISTICS

1. NUMBER OF WARNINGS ISSUED - 5
2. NUMBER OF WARNINGS WITH CYCLONE INTENSITY - 2
3. TOTAL DISTANCE TRAVELED DURING TROPICAL WARNING PERIOD - 663 N MI

B. CHARACTERISTICS

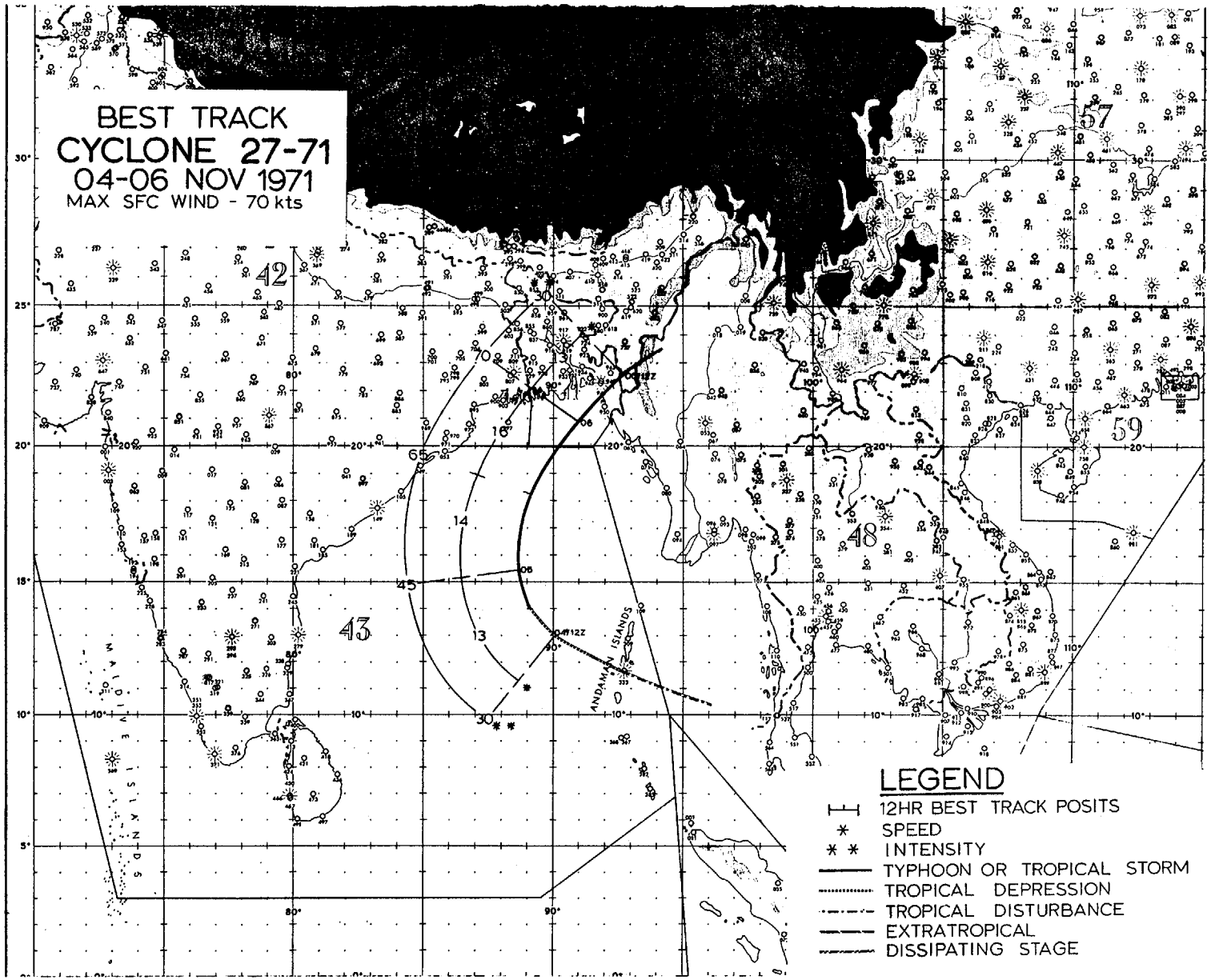
1. MINIMUM OBSERVED SLP - N/A
2. MINIMUM OBSERVED 700 MB HEIGHT - 3018 M
3. MAXIMUM SURFACE WIND - 70 KT
4. MAXIMUM RADIUS OF SURFACE CIRCULATION - N/A

II. DEVELOPMENT

A. INITIAL IMPETUS - N/A
B. INITIAL SURFACE VORTEX - 04 NOV 1971
C. DATE STORM REACHED CYCLONE FORCE WINDS - 06 NOV 1971

III. FINAL DISPOSITION

A. DISSIPATED OVER LAND


BEST TRACK
CYCLONE 27-71
04-06 NOV 1971
MAX SFC WIND - 70 kts
42
43
48
57
59
MALDIVE ISLANDS
ANDAMAN ISLANDS
LEGEND
12HR BEST TRACK POSITS
SPEED
INTENSITY
TYPHOON OR TROPICAL STORM
TROPICAL DEPRESSION
TROPICAL DISTURBANCE
EXTRATROPICAL
DISSIPATING STAGE

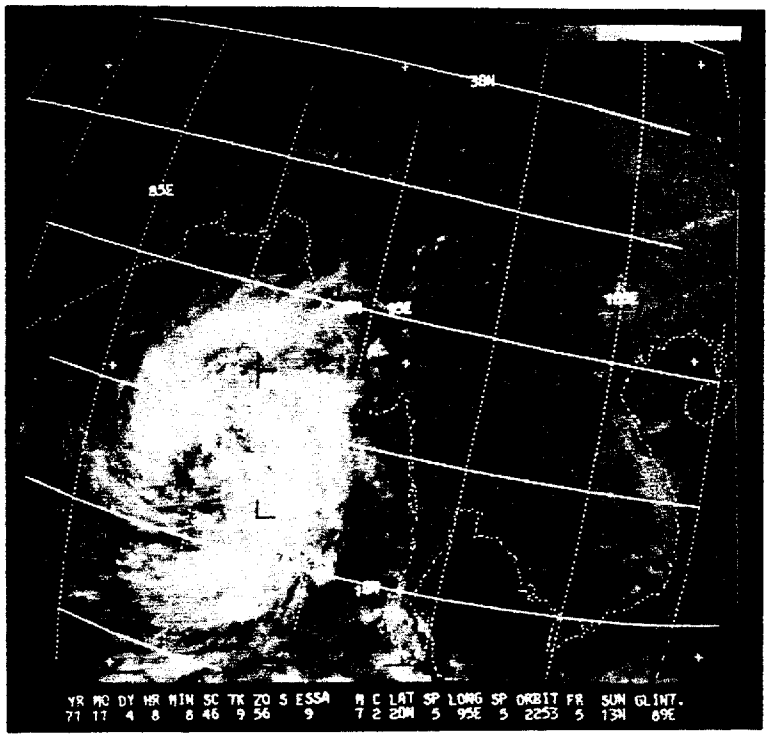


FIGURE B-3. ESSA-9 PHOTOGRAPHS CYCLONE 27-71 IN THE CENTRAL BAY OF BENGAL ON 4 NOVEMBER.

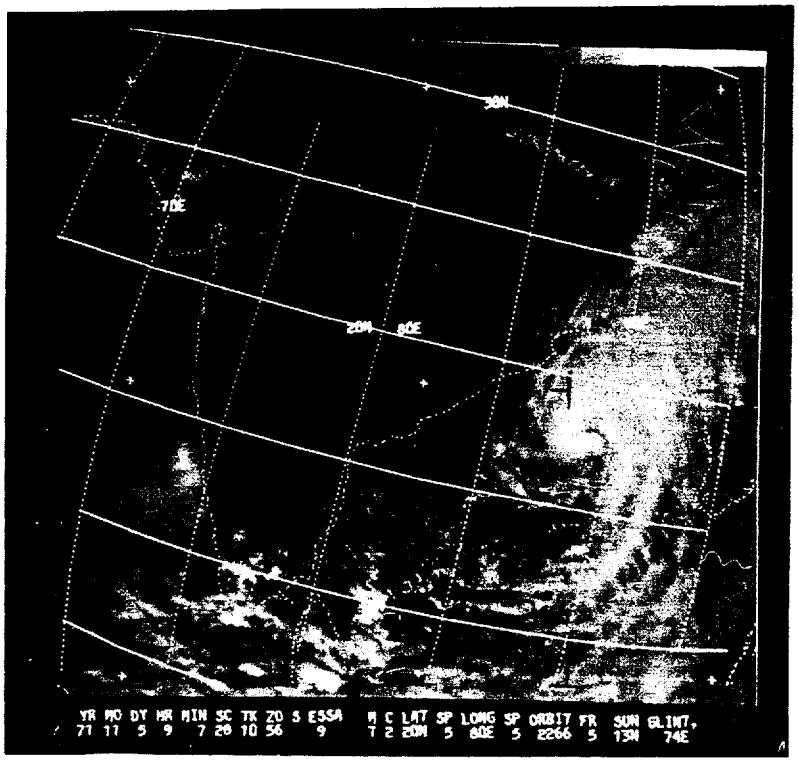


FIGURE B-4. CYCLONE 27-71 PRIOR TO RECURVATURE AS VIEWED BY ESSA-9 ON 5 NOVEMBER.

EYE FIXES FOR TROPICAL CYCLONE 27-71
04 NOV - 06 NOV 71

FIX NO.	TIME	POSIT	UNIT - METHOD - ACCY	FLT LVL	FLT LVL WND	OBS SFC WND	OBS MIN SLP	MIN 700 MB HGT	FLT LVL TI/TO	EYE FORM	ORIEN-TATION	EYE DIA	THKN WALL CLD	REMARKS
1	030910Z	11.5N 95.0E	SATELLITE	STG B	-------	-----	----	------	-----	----	------	---	----	ESSA-9
2	040809Z	13.5N 89.5E	SATELLITE	STG C+	-------	-----	----	------	-----	----	------	---	----	ESSA-9
3	050907Z	18.1N 89.5E	SATELLITE	STG X	DIA 6	CAT 2	----	------	-----	----	------	---	----	ESSA-9
4	051230Z	18.3N 89.4E	54-P-----	700	75	-----	----	------	-----	----	------	---	----	40 NM DIA WIND CENTER
5	051430Z	18.9N 89.5E	54-P-05-15	700	70	-----	----	3018	14/11	----	------	---	----	NO WALL CLD
6	060230Z	21.4N 91.4E	54-R-15-20	700	55	70	----	------	-----	CIRC	------	25	----	WEAK-MDT WALL CLD

POSITION FROM BEST TRACK AND VERIFICATION DATA
27-71 BAY OF BENGAL

TIME	STORM POSIT LAT	STORM POSIT LONG	24HR ERROR DEG/DIST	48HR ERROR DEG/DIST
041200Z	13.0N	90.0E		
050000Z	15.4N	88.8E		
050700Z	16.9N	88.9E		
051200Z	18.1N	89.2E	224°/282 MI	
060000Z	20.9N	90.0E	232°/415 MI	
060700Z	21.9N	91.9E	230°/250 MI	
061200Z	22.6N	92.8E	175°/258 MI	238°/576 MI

AVG 24 HOUR FORECAST ERROR - 301 MI