

1603

TPWT KGWG 271543

A. TROPICAL DISTURBANCE N OF HAITI

B. 27/135EZ

C. 19.2N/2

D. 58.6W/0

E. FIVE/DYSP

F. T 1.5/1.5/INIT OBS -27/135EZ-

G. WAB541/9205/ALT-TS-EIR

LLCC PSN BASED ON SPIRAL BAND CURVATURE AND EXTRAPOLATION OF
LLCL. LOW APPEARS QUITE LARGE WITH DIFFUSE LLCL NEAR CNTR.

U/L AC 18.1N/0 53.7W/1, EXCELLENT OUTFLOW, SLIGHTLY RESTRICTED
WSW.

NEXT PASS AVAIL AT GWC AT 23/0300Z

KWILINSKI B TEAM

NNNN

0550 QJE = 00.0 MINS

0555

TPNT KGWC 280555

A. TROPICAL DEPRESSION 45E

B. 28/0239Z

C. 20.5N/7

D. 73.6W/6

E. FIVE/DMSD

F. T2.5/2.5/INIT EIR OBS -28/0239Z

G. WX8541/9213/DLS-TS-EIR

PSN BASED ON EXTRAPOLATION OF LLCL. CENTER IS LESS THAN .5DEG

FROM CCM. OUTFLOW FAIR FROM ULAC PSN 20.5N 74.3W.

NEXT F7 PASS AVAILABLE AT GWC AT 28/1630Z

MIHALKO/C-TEAM

NNNN

1716

TPNT KGWC 281515

A. TROPICAL DEPRESSION 05

B. 23/1513Z

C. 21.3N/2

D. 79.5W/1

E. FIVE/DMSF

F. NA

G. WX8541/9221/ABS-TS-EIR

LLCC PSN BASED ON EXTRAP OF LLCL AND SPIRAL BAND CURVATURE. SPIRAL

BAND WRAPS FROM 1.8DEG SW-.8DEG SE-.5DEG NE. ORGANIZATION

CONTINUES TO INCREASE FROM LAST PASS. ULAC PSN 22.3N/7 79.0W/6

OUTFLOW GOOD ALQDS. NEXT PASS AVAIL AT AFGWC AT 29/3700Z.

MERCIER/A-TEAM

0527

FPNT KGWC 293325

A. TROPICAL STORM ELENA

B. 23/0400Z

C. 23.5N/1

D. 22.3N/9

E. ONE/DM3P

F. T 3.5/3.5/D1.0 25HRS -23/0400Z

G. WKS541/3228/DLS-PS-EIR

LLCC PSN BASED ON PARTIAL EYE. EYE-WALL BECOMING WELL DEFINED.

SE-E, POORLY DEFINED SE, CLOSER TO LAND.

NEXT FP PASS AVAIL AT GWC AT 23/1300Z.

POLLOCK/C-TEAM

NNNN

1650 QUE = 00.0 MINS

1654

TPNT KGWC 291640 COR

A. HURRICANE ELENA

B. 29/1459Z

C. 25.3N/0

D. 85.6W/9

E. FIVE DMSP

F. T 4.5/4.5/D3.0 49HRS -29/1459Z

G. WX8541/9235/ALS-TS-EIR

PSN BASED ON SPIRAL BAND CURVATURE. CNTR DEFINED BY TWO SPIRAL BANDS, THE FIRST BAND WRAPS FROM NW-SW-SE-NE OF CNTR, THE SECOND BAND WRAPS FROM SE-NE-NW-SW-SE-NE. SPIRAL DISTANCE IS 1.2 TURNS OF 10 DEG SPIRAL. AVG BAND WIDTH IS 1.1 DEG. SYSTEM IS VERTICALLY STACKED WITH GOOD-EXCELLENT OUTFLOW ALQDS. NEXT PASS AVAIL AT AFGWC AT 30/0630Z. MERCIER/KINNEY A-TEAM

644

TPNT KGWG 291640

A. HURRICANE ELENA

B. 29/1459Z

C. 25.9N/6

D. 85.6W/9

E. FIVE DMSP

F. T 4.5/4.5/D3.0 49HRS -29/1459Z

G. WX8541/9235/ALS-TS-EIR

PSN BASED ON SPIRAL BAND CURVATURE. CNTR DEFINED BY TWO SPIRAL BANDS, THE FIRST BAND WRAPS FROM NW-SW-SE-NE OF CNTR, THE SECOND BAND WRAPS FROM SE-NE-NW-SW-SE-NE. SPIRAL DISTANCE IS 1.2 TURNS OF 10DEG SPIRAL. AVG BAND WIDTH IS 1.1DEG. SYSTEM IS VERTICALLY STACKED WITH GOOD-EXCELLENT OUTFLOW ALQDS. NEXT PASS AVAIL AT AFGWC AT 30/0630Z. MERCIER/KINNEY A-TEAM

NNNN

1647

TPNT KGWC 301634

A. HURRICANE ELENA

B. 30/1630Z

C. 27.6N/5

D. 86.7W/1

E. ONE/DMSP

F. T 5.5/5.5/D1.0 24HRS -30/1439Z

G. WX8541/9249/ALS-TS-EIR

LLCC PSN BASED ON BANDING EYE. SPIRAL BAND WRAPS 1.5 TURNS OF
10DEG LOG SPIRAL. AVG EMBEDDED DISTANCE OF EYE IN BAND IS 1.2DEG.
SYSTEM IS VERTICALLY STACKED WITH EXCELLENT OUTFLOW.

NEXT F7 PASS AVAIL AT GWC AT 31/0800

KINNEY/MERCIER/A-TEAM

Ø 35

T NT KGWC Ø1Ø73Ø

A HURRICANE ELENA

B Ø1/Ø44ØZ

C 28.3N/3

D 83.9W/Ø

E ONE/DMSF

F T 4.Ø/4.5/SØ.Ø 24HRS -Ø1/Ø44ØZ-

G WX8541/9271/DLS-TS-EIR

PSN BASED ON RAGGED BANDING EYE. SYSTEM NEARLY VERTICALLY STACKED
WITH GOOD-EXCELLENT OUTFLOW BUT RESTRICTED NW.

NEXT PASS AVAIL AT GWC AT Ø1/163ØZ

ANDERSON/B-TEAM

NNNN

0641 QUE = 01.4 MINS

0644

TPNT KGWC 020640

A. HURRICANE ELENA

B. 02/0420Z

C. 29.5N/6

D. 86.5W/9

E. ONE/DMSF

F. T 4.5/4.5/D0.5 24HRS -02/0420Z-

G. WX8541/9285/DLS-TS-EIR

PSN BASED ON WELL-DEFINED EYE APPROX 18NM IN DIAMETER. SYSTEM
VERTICALLY STACKED WITH EXCELLENT OUTFLOW ALQDS.

NEXT PASS AVAIL AT GWC AT 02/1700Z

ANDERSON/B-TEAM

NNNN

1620 QUE = 01.4 MINS

1626

TPNT KGWC 021625

A. HURRICANE ELENA

B. 02/1519Z

C. 30.5N/8

D. 89.7W/4

E. ONE/DMSP

F. N/A

G. WX8541/9292/ALS-TS-EIR

PSN BASED ON FILLING EYE. EXCELLENT OUTFLOW ALQDS. STORM
MAINTAINING WELL.

NEXT PASS AVAIL AT GWC AT 03/0630Z

MIHALKO/C-TEAM

0540 QUE = 01.4 MINS
0550 QUE = 01.4 MINS
0600 QUE = 01.4 MINS
0600
TPNT KGWC 030555

A. TROPICAL STORM ELENA
B. 03/0400Z
C. 32.2N/7
D. 93.0W/2
E. FIVE/DMSP
F. N/A

G. WX8541/9299/DLS-TS-EIR
LLCC PSN BASED OF EXTRAPOLATION OF LLCL AND SPIRAL BAND CURVATURE.
SYSTEM NOW WILL OVER LAND. THIS IS THE LAST MESSAGE ON THIS
SYSTEM FROM AFGWC.
ANDERSCN/B-TEAM

NNNN
0600
TPNT KGWC 030555

A. TROPICAL STORM ELENA
B. 03/0400Z
C. 32.2N/7
D. 93.0W/2
E. FIVE/DMSP
F. N/A

G. WX8541/9299/DLS-TS-EIR
LLCC PSN BASED OF EXTRAPOLATION OF LLCL AND SPIRAL BAND CURVATURE.
SYSTEM NOW WILL OVER LAND. THIS IS THE LAST MESSAGE ON THIS
SYSTEM FROM AFGWC.
ANDERSCN/B-TEAM

NNNN

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

_____ For compute data input.

✓ _____ For weak systems unable to classify.

Date: 24 Aug 85 19 85 Time: 1800 Z Cyclone name/number: _____

LOCATION: 17.5 N 36.0 W (of vortex, if evident) estimated within _____ nm.

Location confidence: 5 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: -1 _____; assuming cloud top defining eye at _____ ft.

Mean motion vector: 270 degrees at 22 knots over 24 hours
(towards) " " " " " "

Remarks:

No deep cnu tn nr well defined 10/mid cld entr.

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: JBL Message actually submitted to NHC: 1843 Z

* See Gaby's memo of 26 Apr 74.

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

_____ For compute data input.

For weak systems unable to classify.

Date: 25 AUG 1985 Time: 0000Z Cyclone name/number: _____

LOCATION: 17.5 N 38.5 W (of vortex, if evident) estimated within 90 nm.

Location confidence: 5 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: -1; assuming cloud top defining eye at - ft.

Mean motion vector: 270 degrees at 24 knots over 6 hours
(towards) 270 " " 22 " " 24 "

Remarks:

*NO DEEP CONVECTION ~~WARRANT~~
ASSOCIATED WITH THIS VERY LARGE
LOW LEVEL CIRCULATION.*

Submit by 0700Z, 1300Z, 1900Z, 0100Z----- (for computes only).

SFSS meteorologist: JMG Message actually submitted to NHC: 0100Z

* See Gaby's memo of 26 Apr 74.

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

_____ For compute data input.

X For weak systems unable to classify.

Date: Aug 25 1985 Time: 0600 Z Cyclone name/number: _____

LOCATION: 17.0 N 41.0 W (of vortex, if evident) estimated within 20 nm.

Location confidence: 5 (*)

Satellite: Goes Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: ___/___; assuming cloud top defining eye at ___ ft.

Mean motion vector: 260 degrees at 25 knots over 12 hours
(towards) " " " " " "

Remarks:

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: FT Message actually submitted to NHC _____ Z
FORECASTER

* See ~~Gaby~~'s memo of 26 Apr 74.

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

_____ For compute data input.
✓ _____ For weak systems unable to classify.

Date: 25 Aug 1985 Time: 1200 Z Cyclone name/number: _____

LOCATION: 17.0 N 43.0 W (of vortex, if evident) estimated within 60 nm.

Location confidence: 5 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: -1 -; assuming cloud top defining eye at - ft.

Mean motion vector: 270 degrees at 25 knots over 18 hours
(towards) " " " " " "

Remarks:

No deep convection at this time

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: ASL Message actually submitted to NHC: 1300 Z

* See Gaby's memo of 26 Apr 74.

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

_____ For compute data input.

For weak systems unable to classify.

Date: 25 Aug 1985 Time: 1800Z Cyclone name/number: _____

LOCATION: 16.5 N 46.0 W (of vortex, if evident) estimated within 60 nm.

Location confidence: 5 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: 1 ; assuming cloud top defining eye at _____ ft.

Mean motion vector: 265 degrees at 22 knots over 24 hours
(towards) 265 " " 23 " " 12 "

Remarks:

No deep convection

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: 9SL Message actually submitted to NHC: 1810 Z

* See Gaby's memo of 26 Apr 74.

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

_____ For compute data input.

For weak systems unable to classify.

Date: 26 AUG 1985 Time: 0100 Z Cyclone name/number: _____

LOCATION: 16.5 N 50.5 W (of vortex, if evident) estimated within 90 nm.

Location confidence: 5 (*)

Satellite: GOES 6 Picture: (1R) VIS Resolution: 1 2 4 (8) km.

Perspective adjustment: 1 / 1; assuming cloud top defining eye at _____ ft.

Mean motion vector: _____ degrees at _____ knots over _____ hours
(towards) " " " " " "

Remarks:

SOME CONVECTIVE ACTIVITY
BEGINNING OVER THE
SOUTHWESTERN QUADRANT
IN A 1 DEGREE WIDE BAND
2 TO 3 DEGREES FROM THE
CENTER

(LITTLE DECREASE OF NO SATELLITE PIX)

Submit by 0700Z, 1300Z, 1900Z, ~~0300Z~~ (for computes only).

SFSS meteorologist: JMG Message actually submitted to NHC: 0300Z

* See Gaby's memo of 26 Apr 74.

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

_____ For compute data input.

✓ For weak systems unable to classify.

Date: Aug 26 1985 Time: 06 Z Cyclone name/number: _____

LOCATION: 16.5 N 53.0 W (of vortex, if evident) estimated within 90 nm.

Location confidence: 5 (*)

Satellite: GOES Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: / ; assuming cloud top defining eye at ft.

Mean motion vector: 270 degrees at 25/30 knots over 24 hours
(towards) " " " " " "

Remarks:

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: Fet Message actually submitted to NHC: yes Z

* See ~~Gaby~~'s memo of 26 Apr 74.

WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 26 August 1985		TIME (Z) 1200Z	CYCLONE (Name/Number) _____	
LOCATION 16.5 N 56.0 W		Estimated within (n.mi.) 60	Location Confidence 5	
MAXIMUM WIND SPEED (kt.) 25		MINIMUM CENTRAL PRESSURE (mb.) _____		
C.I. NUMBER 1.0		INTENSITY CONFIDENCE 2		
24 HOUR FORECAST C.I. NUMBER 2.0		24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) _____		
SATELLITE GOES-6	PICTURE—(Circle) IR <u>VIS</u>		RESOLUTION (n.mi.)—(Circle) <u>1/2</u> 1 2 4	
PERSPECTIVE ADJUSTMENT (lat., long.) _____		(assuming cloud top defining eye at) _____ ft.		
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____		ESTIMATED DIAMETER OF EYE (n.mi.) _____		
MEAN MOTION VECTOR <u>265</u> degrees at <u>30</u> Knots over <u>24</u> hours (towards) <u>270</u> degrees at <u>26</u> Knots over <u>12</u> hours				
REMARKS Scattered deep convection developing around low/mid-level circulation, increasing. First Classification				
DEADLINE (Circle) 0200Z 0800Z <u>1400Z</u> 2000Z		SFSS METEOROLOGIST <u>95L</u>		
Message submitted (Z) 1227Z		Notified SAB (Z) _____		NEW SFSS (Z) _____

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

D

For compute data input.

~~S~~

For weak systems unable to classify.

Date: 26 Aug 19 85 Time: 1800 Z Cyclone name/number: _____

LOCATION: 16.8 N 58.5 W (of vortex, if evident) estimated within 60 nm.

Location confidence: 5 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: —/—; assuming cloud top defining eye at — ft.

Mean motion vector: 270 degrees at 29 knots over 24 hours
(towards) 275 " " 27 " " 12 "

Remarks:

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: 9SL Message actually submitted to NHC: 1905Z

* See Gaby's memo of 26 Apr 74.

WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE <u>26 Aug</u> 19 <u>85</u>		TIME (Z) <u>1800Z</u>	CYCLONE (Name/Number) _____	
LOCATION <u>16.8 N 58.5 W</u>		Estimated within (n.mi.) <u>60</u>	Location Confidence <u>5</u>	
MAXIMUM WIND SPEED (kt.) <u>25</u>		MINIMUM CENTRAL PRESSURE (mb.) _____		
C.I. 6.0 NUMBER <u>1.0</u>		INTENSITY CONFIDENCE <u>2</u>		
24 HOUR FORECAST C.I. NUMBER <u>2.0</u>		24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) <u>30</u>		
SATELLITE <u>GOES-6</u>	PICTURE—(Circle) IR <input type="checkbox"/> <u>VIS</u> <input checked="" type="checkbox"/>		RESOLUTION (n.mi.)—(Circle) <u>1/2</u> 1 2 4	
PERSPECTIVE ADJUSTMENT (lat., long.) _____		(assuming cloud top defining eye at) _____ ft.		
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____		ESTIMATED DIAMETER OF EYE (n.mi.) _____		
MEAN MOTION VECTOR <u>270</u> degrees at		<u>29</u> Knots over	<u>24</u> hours	
(towards) <u>275</u> degrees at		<u>27</u> Knots over	<u>12</u> hours	
REMARKS				
DEADLINE (Circle) 0200Z 0800Z 1400Z <u>2000Z</u>		SFSS METEOROLOGIST <u>9SL</u>		
Message submitted (Z) <u>1910Z</u>		Notified SAB (Z)		NEW SFSS (Z)

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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 27 Aug 19 85	TIME (Z) 0000	CYCLONE (Name/Number) _____
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LOCATION 18.5 N 61.7 W	Estimated within (n.mi.) 60	Location Confidence 5
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MAXIMUM WIND SPEED (kt.) 25	MINIMUM CENTRAL PRESSURE (mb.) —
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C.I. (S.T.) NUMBER 1.5	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER 2.5	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 35
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SATELLITE Goes-6	PICTURE—(Circle) (IR) VIS	RESOLUTION (n.ml.)—(Circle) 1/2 1 2 (4)
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PERSPECTIVE ADJUSTMENT (lat., long.) _____ (assuming cloud top defining eye at) _____ ft.

ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) —	ESTIMATED DIAMETER OF EYE (n.mi.) —
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MEAN MOTION VECTOR **295** degrees at **30** Knots over **12** hours
 (towards) **280** degrees at **28** Knots over **24** hours

REMARKS

DEADLINE (Circle) (0200Z) 0800Z 1400Z 2000Z	SFSS METEOROLOGIST SW
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Message submitted (Z) 0117	Notified SAB (Z)	NEW SFSS (Z)
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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 27 AUG 19 85 TIME (Z) 0600 CYCLONE (Name/Number) _____

LOCATION 17.2 N 65.8 W Estimated within (n.mi.) 60 Location Confidence 5

MAXIMUM WIND SPEED (kt.) 25 MINIMUM CENTRAL PRESSURE (mb.) _____

C.I. (S.T.) NUMBER 1.5 INTENSITY CONFIDENCE 2

24 HOUR FORECAST C.I. NUMBER 2.5 24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 35

SATELLITE GOES-6 PICTURE—(Circle) (IR) VIS _____ RESOLUTION (n.mi.)—(Circle) 4

PERSPECTIVE ADJUSTMENT (lat., long.) _____ (assuming cloud top defining eye at) _____ ft.

ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____ ESTIMATED DIAMETER OF EYE (n.mi.) _____

MEAN MOTION VECTOR 275 degrees at 35 Knots over 12 hours
(towards) 275 degrees at 30 Knots over 24 hours

REMARKS

DEADLINE (Circle) 0200Z (0800Z) 1400Z 2000Z SFSS METEOROLOGIST [Signature]

Message submitted (Z) 0705 Notified SAB (Z) 0710 NEW SFSS (Z) _____

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

For compute data input.

For weak systems unable to classify.

Date: 27 Aug 1985 Time: 1200 Z Cyclone name/number: _____

LOCATION: 18.0 N 68.5 W (of vortex, if evident) estimated within 60 nm.

Location confidence: 5 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: 1 —; assuming cloud top defining eye at — ft.

Mean motion vector: 275 degrees at 30 knots over 24 hours
(towards) " " " " " "

Remarks:

Majority of circulation is over land.
(No classification while over land)

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: 9SL Message actually submitted to NHC: 1225 Z

* See Gaby's memo of 26 Apr 74.

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

For compute data input.

For weak systems unable to classify.

Date: 27 Aug 1985 Time: 1800 Z Cyclone name/number: _____

LOCATION: 18.0N 71.0W (of vortex, if evident) estimated within 60 nm.

Location confidence: 5 (*)

Satellite: GOES-6 Picture: IR (VIS) Resolution: (1) 2 4 8 km.

Perspective adjustment: 1 _____; assuming cloud top defining eye at _____ ft.

Mean motion vector: 275 degrees at 29 knots over 24 hours
(towards) 270 " " 23 " " 6 "

Remarks:

Majority of circulation is over land (no classification)

System appears to have slowed its westward motion crossing the higher elevations of Hispaniola.

Submit by 0700Z, 1300Z, (1900Z), 0100Z ----- (for computes only).

SFSS meteorologist: 9SL Message actually submitted to NHC: 1816 Z

* See Gaby's memo of 26 Apr 74.

WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 28 Aug 19 85	TIME (Z) 0000	CYCLONE (Name/Number) _____
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LOCATION 19.2 N 74.2 W	Estimated within (n.mi.) 90	Location Confidence 5
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MAXIMUM WIND SPEED (kt.) 35	MINIMUM CENTRAL PRESSURE (mb.) 1005
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C.I. (S.T.) NUMBER 2.5	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER 3.5	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 45
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SATELLITE Goes	PICTURE—(Circle) (IR) VIS	RESOLUTION (n.mi.)—(Circle) 1/2 1 2 (4)
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PERSPECTIVE ADJUSTMENT (lat., long.) _____ (assuming cloud top defining eye at) _____ ft.

ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____	ESTIMATED DIAMETER OF EYE (n.mi.) _____
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MEAN MOTION VECTOR **285** degrees at **30** Knots over **12** hours
 (towards) **275** degrees at **30** Knots over **24** hours

REMARKS

DEADLINE (Circle) (0200Z) 0800Z 1400Z 2000Z	SFSS METEOROLOGIST SW
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Message submitted (Z) 0102	Notified SAB (Z)	NEW SFSS (Z)
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WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 28 AUG 1985	TIME (Z) 0600	CYCLONE (Name/Number) TD#5
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LOCATION 21.1 N 76.0 W	Estimated within (n.mi.) 90	Location Confidence 5
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MAXIMUM WIND SPEED (kt.) 35	MINIMUM CENTRAL PRESSURE (mb.) 1005
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C.I. (S.T.) NUMBER 2.5	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER 3.5	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 45
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SATELLITE GOES-6	PICTURE—(Circle) <input checked="" type="checkbox"/> IR VIS	RESOLUTION (n.mi.)—(Circle) 1/2 1 2 <input checked="" type="checkbox"/> 4
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PERSPECTIVE ADJUSTMENT (lat., long.) _____ (assuming cloud top defining eye at) _____ ft.

ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____	ESTIMATED DIAMETER OF EYE (n.mi.) _____
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MEAN MOTION VECTOR 290 degrees at 28 Knots over 12 hours
 (towards) 295 degrees at 26 Knots over 24 hours

REMARKS

DEADLINE (Circle) 0200Z <input checked="" type="checkbox"/> 0800Z 1400Z 2000Z	SFSS METEOROLOGIST <i>[Signature]</i>
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Message submitted (Z) 0700	Notified SAB (Z) 0710	NEW SFSS (Z)
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MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

For compute data input.

For weak systems unable to classify.

Date: 28 Aug 19 85 Time: 1200 Z Cyclone name/number: TD #5

LOCATION: 21.4 N 77.5 W (of vortex, if evident) estimated within 60 nm.

Location confidence: 5 (*)

Satellite: GOES-6 Picture: IR (VIS) Resolution: (1) 2 4 8 km.

Perspective adjustment: T; assuming cloud top defining eye at — ft.

Mean motion vector: 285 degrees at 15 knots over 6 hours
(towards) 285 " " 22 " " 24 "

Remarks:

System is again onshore (no formal classification)
The system is near Camaguey, Cuba.

Cloud pattern resembles a T3.0.

Submit by 0700Z, (1300Z), 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: QSL Message actually submitted to NHC: 1220 Z

* See Gaby's memo of 26 Apr 74.

WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 28 Aug 19 85	TIME (Z) 2100	CYCLONE (Name/Number) ELENA
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LOCATION 23.3 N 80.7 W	Estimated within (n.mi.) 45	Location Confidence 5
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MAXIMUM WIND SPEED (kt.) 45	MINIMUM CENTRAL PRESSURE (mb.) 1000
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C.I. (ST) NUMBER 3.0	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER 4.0	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 65
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SATELLITE Goes-6	PICTURE—(Circle) IR <input type="radio"/> VIS <input checked="" type="radio"/>	RESOLUTION (n.mi.)—(Circle) <input checked="" type="radio"/> 1/2 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 4
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PERSPECTIVE ADJUSTMENT (lat., long.) _____ (assuming cloud top defining eye at) _____
ft. _____

ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____	ESTIMATED DIAMETER OF EYE (n.mi.) _____
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MEAN MOTION VECTOR 305 degrees at 21 Knots over 6 hours
(towards) 295 degrees at 19 Knots over 21 hours

REMARKS
CSC Relocated North.

DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z	SFSS METEOROLOGIST SW
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Message submitted (Z) 2211	Notified SAB (Z)	NEW SFSS (Z)
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MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

For compute data input.

For weak systems unable to classify.

Date: 28 Aug 19 85 Time: 1500 Z Cyclone name/number: TD #5

LOCATION: 21.6 N 79.2 W (of vortex, if evident) estimated within 30 nm.

Location confidence: 3 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: -1 -; assuming cloud top defining eye at - ft.

Mean motion vector: 290 degrees at 24 knots over 24 hours
(towards) 280 " " 20 " " 9 "
275 " " 30 " " 3 "

Remarks:

Circulation is along the south coast of Cuba, with an apparent vorticity maxima on north coast

System has accelerated to the west during the past 3 hours.

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: JSL Message actually submitted to NHC: 1530 Z

* See Gaby's memo of 26 Apr 74.

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

For compute data input.

For weak systems unable to classify.

Date: 28 Aug 19 85 Time: 1800 Z Cyclone name/number: TD#5

LOCATION: 22.2N 80.5W (of vortex, if evident) estimated within 30 nm.

Location confidence: 3 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: + ; assuming cloud top defining eye at ft.

Mean motion vector: 290 degrees at 24 knots over 24 hours
(towards) 285 " " 29 " " 6 "

Remarks:

System remains onshore near the south coast of Cuba

No formal classification; however, pattern resembles a T3.0

Submit by 0700Z, 1300Z, 900Z 0100Z ----- (for computes only).

SFSS meteorologist: JSL Message actually submitted to NHC: 1840 Z

* See Gaby's memo of 26 Apr 74.

SAB Z
New Orleans Z

WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 28 Aug 19 85 TIME (Z) 0000 CYCLONE (Name/Number) ELENA

LOCATION 23.5 N 81.3 W Estimated within (n.mi.) 45 Location Confidence 5

MAXIMUM WIND SPEED (kt.) 55 MINIMUM CENTRAL PRESSURE (mb.) 994

C.I. (S.T.) NUMBER 3.5 INTENSITY CONFIDENCE 2

24 HOUR FORECAST C.I. NUMBER 4.5 24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 77

SATELLITE Geos -6 PICTURE—(Circle) (IR) VIS — RESOLUTION (n.mi.)—(Circle) 1/2 1 2 (4)

PERSPECTIVE ADJUSTMENT (lat., long.) — (assuming cloud top defining eye at) — ft.

ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) — ESTIMATED DIAMETER OF EYE (n.mi.) —

MEAN MOTION VECTOR 315 degrees at 13 Knots over 6 hours
(towards) 300 degrees at 20 Knots over 12 hours
295 18 24

REMARKS

DEADLINE (Circle) (0200Z) 0800Z 1400Z 2000Z SFSS METEOROLOGIST SW

Message submitted (Z) 0052 Notified SAB (Z) — NEW SFSS (Z) —

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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 29 AUG 1985	TIME (Z) 0300	CYCLONE (Name/Number) ELENA
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LOCATION 23.4_N 82.5_W	Estimated within (n.mi.) 45	Location Confidence 5
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MAXIMUM WIND SPEED (kt.) 55	MINIMUM CENTRAL PRESSURE (mb.) 994
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C.I. (SF) NUMBER 3.5	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER 4.5	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 77
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SATELLITE GOES-6	PICTURE—(Circle) (R) VIS	RESOLUTION (n.mi.)—(Circle) 1/2 1 2 (4)
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PERSPECTIVE ADJUSTMENT (lat., long.) _____ (assuming cloud top defining eye at) _____ ft.

ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) —	ESTIMATED DIAMETER OF EYE (n.mi.) —
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MEAN MOTION VECTOR 300 degrees at 19 Knots over 27 hours
 (towards) 300 degrees at 18 Knots over 12 hours

REMARKS
Outflow pattern remain well developed.
Average core rainfall during past 24 hrs is \approx 9.5 inches.

DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z	SFSS METEOROLOGIST mm
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Message submitted (Z) 0400	Notified SAB (Z)	NEW SFSS (Z)
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WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 29 AUG 1985	TIME (Z) 0600	CYCLONE (Name/Number) ELENA
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LOCATION 24.1 N 83.3 W	Estimated within (n.mi.) 45	Location Confidence 5
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MAXIMUM WIND SPEED (kt.) 65	MINIMUM CENTRAL PRESSURE (mb.) 987
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C.I. (S.T.) NUMBER 4.0	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER 4.5	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 77
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SATELLITE GOES-6	PICTURE—(Circle) <input checked="" type="checkbox"/> IR VIS	RESOLUTION (n.mi.)—(Circle) 1/2 1 2 <input checked="" type="checkbox"/> 4
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PERSPECTIVE ADJUSTMENT (lat., long.) _____ (assuming cloud top defining eye at) _____ ft.

ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____	ESTIMATED DIAMETER OF EYE (n.mi.) _____
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MEAN MOTION VECTOR 305 degrees at 16 Knots over 12 hours
(towards) 295 degrees at 18 Knots over 24 hours

REMARKS

DEADLINE (Circle) 0200Z <input checked="" type="checkbox"/> 0800Z 1400Z 2000Z	SFSS METEOROLOGIST 
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Message submitted (Z) 0645	Notified SAB (Z) 0655	NEW SFSS (Z)
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WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 29 AUG 1985	TIME (Z) 0900	CYCLONE (Name/Number) ELENA
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LOCATION 24.5 N 84.1 W	Estimated within (n.mi.) 45	Location Confidence 5
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MAXIMUM WIND SPEED (kt.) 65	MINIMUM CENTRAL PRESSURE (mb.) 987
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C.I. (S.T.) NUMBER 4.0	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER 4.5	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 77
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SATELLITE GOE-6	PICTURE—(Circle) <input checked="" type="checkbox"/> IR VIS	RESOLUTION (n.mi.)—(Circle) 1/2 1 2 <input checked="" type="checkbox"/> 4
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PERSPECTIVE ADJUSTMENT (lat., long.) _____ (assuming cloud top defining eye at) _____
ft. _____

ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____	ESTIMATED DIAMETER OF EYE (n.mi.) _____
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MEAN MOTION VECTOR 290 degrees at 17 Knots over 12 hours
(towards) 295 degrees at 18 Knots over 27 hours

REMARKS

DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z	SFSS METEOROLOGIST 
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Message submitted (Z) 0955	Notified SAB (Z) 0957	NEW SFSS (Z)
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MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

For compute data input.

For weak systems unable to classify.

Date: 29 Aug 1985 Time: 1200Z Cyclone name/number: Elena

LOCATION: 24.8 N 85.0 W (of vortex, if evident) estimated within 30 nm.

Location confidence: 3 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 13 2 4 8 km.

Perspective adjustment: -0.061 +0.04; assuming cloud top defining eye at 40K ft.

Mean motion vector: 295 degrees at 19 knots over 24 hours
(towards) 308 " " 18 " " 6 "

Remarks:

Eye becoming apparent

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: JSL Message actually submitted to NHC: 1225Z

* See Gaby's memo of 26 Apr 74.

WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 29 August 1985 TIME (Z) 1200Z CYCLONE (Name/Number) Elena

LOCATION 24.8 N 85.0 W Estimated within (n.mi.) 30 Location Confidence 3

MAXIMUM WIND SPEED (kt.) 65 kt MINIMUM CENTRAL PRESSURE (mb.) 987 mb

C.I. ~~NO~~ NUMBER 4.0 INTENSITY CONFIDENCE 2

24 HOUR FORECAST C.I. NUMBER 5.5 24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 102 kt

SATELLITE GOES-6 PICTURE—(Circle) IR VIS RESOLUTION (n.mi.)—(Circle) 1/2 1 2 4

PERSPECTIVE ADJUSTMENT (lat., long.) -0.06 / +0.04 (assuming cloud top defining eye at) 40000 ft.

ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) 50 nm ESTIMATED DIAMETER OF EYE (n.mi.) 20-30 nm

MEAN MOTION VECTOR 295 degrees at 19 Knots over 24 hours
(towards) 300 degrees at 18 Knots over 6 hours

REMARKS
Eye is becoming apparent
Pattern has shown signs of rapid development (1.5 T number per 24h) during last 3 classifications.

DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z SFSS METEOROLOGIST 9SL

Message submitted (Z) 1250Z Notified SAB (Z) _____ NEW SFSS (Z) _____

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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 29 August 19 85	TIME (Z) 1500Z	CYCLONE (Name/Number) Elena
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LOCATION 25.2 N 85.2 W	Estimated within (n.mi.) 30	Location Confidence 3
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MAXIMUM WIND SPEED (kt.) 77kt	MINIMUM CENTRAL PRESSURE (mb.) 979mb
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C.I. NUMBER 4.5	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER 6.0	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 115kt
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SATELLITE GOES-6	PICTURE—(Circle) IR VIS	RESOLUTION (n.mi.)—(Circle) 1/2 1 2 4
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PERSPECTIVE ADJUSTMENT (lat., long.) -06/+04	(assuming cloud top defining eye at) 40000 ft.
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ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) 60nm	ESTIMATED DIAMETER OF EYE (n.mi.) 20nm
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MEAN MOTION VECTOR	300 degrees at	17 Knots over	24 hours
(towards)	305 degrees at	15 Knots over	12 hours
	305	12	6

REMARKS

Embedded Center (possible eye in infrared)

Two well defined spiral bands with a third developing

Continued signs of rapid development during last 4 classifications

Apparent slowing of forward motion

DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z	SFSS METEOROLOGIST JSL
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Message submitted (Z) 1545Z	Notified SAB (Z)	NEW SFSS (Z)
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MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

For compute data input.

For weak systems unable to classify.

Date: 29 Aug 1985 Time: 1800 Z Cyclone name/number: Elena

LOCATION: 26.0 N 86.0 W (of vortex, if evident) estimated within 30 nm.

Location confidence: 1 (*)

Satellite: GOES-6 Picture: IR (VIS) Resolution: 1 2 4 8 km.

Perspective adjustment: -0.06 / +0.04; assuming cloud top defining eye at 40K ft.

Mean motion vector: 305 degrees at 18 knots over 24 hours
(towards) 315 " " 15 " " 6 "

Remarks:

Eye in Visible Data

Submit by 0700Z, 1300Z, (1900Z), 0100Z ----- (for computes only).

SFSS meteorologist: JSL Message actually submitted to NHC: 1835 Z

* See Gaby's memo of 26 Apr 74.

WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 29 Aug 19 85	TIME (Z) 1800Z	CYCLONE (Name/Number) Elena
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LOCATION 26.0 N 86.0 W	Estimated within (n.mi.) 30	Location Confidence 1
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MAXIMUM WIND SPEED (kt.) 77kt	MINIMUM CENTRAL PRESSURE (mb.) 979mb
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C.I. (Z) NUMBER 4.5	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER 6.0	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 115kt
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SATELLITE GOES-6	PICTURE—(Circle) IR <input type="checkbox"/> VIS <input checked="" type="checkbox"/>	RESOLUTION (n.mi.)—(Circle) <input checked="" type="checkbox"/> 1/2 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 4
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PERSPECTIVE ADJUSTMENT (lat., long.) -0.06 / +.04	(assuming cloud top defining eye at) 40000ft.
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ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) 60nm NW/NE QUADS 20-30nm SW/SE QUADS	ESTIMATED DIAMETER OF EYE (n.mi.) 15-20nm
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MEAN MOTION VECTOR	<u>305</u> degrees at	<u>18</u> Knots over	<u>24</u> hours
(towards)	<u>315</u> degrees at	<u>15</u> Knots over	<u>6</u> hours

REMARKS

Persistent signs of rapid intensification (1.5 T# per 24h) during last 5 classifications

Eye now apparent in visible and infrared data.

Two well defined spiral bands

DEADLINE (Circle) 0200Z 0800Z 1400Z <input checked="" type="checkbox"/> 2000Z	SFSS METEOROLOGIST JSL
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Message submitted (Z) 1845Z	Notified SAB (Z)	NEW SFSS (Z)
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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 29 Aug 1985		TIME (Z) 2100Z	CYCLONE (Name/Number) ELENA	
LOCATION 26 3 N 86.6 W		Estimated within (n.mi.) 40	Location Confidence 1	
MAXIMUM WIND SPEED (kt.) 77		MINIMUM CENTRAL PRESSURE (mb.) 979		
C.I. (S.T.) NUMBER 4.5		INTENSITY CONFIDENCE 2		
24 HOUR FORECAST C.I. NUMBER 6.0		24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 115		
SATELLITE Goes-6	PICTURE—(Circle) IR (VIS)		RESOLUTION (n.mi.)—(Circle) (1/2) 1 2 4	
PERSPECTIVE ADJUSTMENT (lat., long.) -.06 / +.04		(assuming cloud top defining eye at) 40000 ft.		
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.)		ESTIMATED DIAMETER OF EYE (n.mi.) 10-15		
MEAN MOTION VECTOR (towards) 315 degrees at 310 degrees at 300		17 Knots over 15 Knots over 16		6 hours 12 hours 24
REMARKS				
DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z		SFSS METEOROLOGIST S.W		
Message submitted (Z) 2214		Notified SAB (Z)		NEW SFSS (Z)

WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 30 Aug 19 85		TIME (Z) 0000	CYCLONE (Name/Number) ELENA
LOCATION 26.4 N 86.8 W		Estimated within (n.mi.) 40	Location Confidence 3
MAXIMUM WIND SPEED (kt.) 90 KT		MINIMUM CENTRAL PRESSURE (mb.) 970	
C.I. (S.T.) NUMBER 5.0		INTENSITY CONFIDENCE 2	
24 HOUR FORECAST C.I. NUMBER 6.5		24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 127	
SATELLITE Goes-6	PICTURE—(Circle) IR		RESOLUTION (n.mi.)—(Circle) 1/2 1 2 4
PERSPECTIVE ADJUSTMENT (lat., long.) -06 / +04		(assuming cloud top defining eye at) 40,000 ft.	
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) —		ESTIMATED DIAMETER OF EYE (n.mi.) —	
MEAN MOTION VECTOR (towards) 305 degrees at 315 degrees at 300		9 knots over 6 hours 11 knots over 12 hours 16 knots over 24 hours	
REMARKS			
DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z		SFSS METEOROLOGIST SW	
Message submitted (Z) 0112		Notified SAB (Z)	NEW SFSS (Z)

WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 30 Aug 1985	TIME (Z) 0300	CYCLONE (Name/Number) ELENA
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LOCATION 27.0 N 87.2 W	Estimated within (n.mi.) 45	Location Confidence 5
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MAXIMUM WIND SPEED (kt.) 90	MINIMUM CENTRAL PRESSURE (mb.) 970
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C.I. (S-F) NUMBER 5.0	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER 6.5	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 127
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SATELLITE Goes-6	PICTURE—(Circle) <input checked="" type="radio"/> IR VIS	RESOLUTION (n.mi.)—(Circle) 1/2 1 2 <input checked="" type="radio"/> 4
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PERSPECTIVE ADJUSTMENT (lat., long.) -.06 / +.04	(assuming cloud top defining eye at) 40,000 ft.
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ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) —	ESTIMATED DIAMETER OF EYE (n.mi.) —
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MEAN MOTION VECTOR	325 degrees at	9 Knots over	6 hours
(towards)	315 degrees at	13 Knots over	12 hours
	310	16	24

REMARKS

DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z	SFSS METEOROLOGIST SW
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Message submitted (Z) 0401	Notified SAB (Z)	NEW SFSS (Z)
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WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 30 AUG 19 85	TIME (Z) 0600	CYCLONE (Name/Number) ELENA
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LOCATION 27 3 N 87 4 W	Estimated within (n.mi.) 40	Location Confidence 3
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MAXIMUM WIND SPEED (kt.) 90	MINIMUM CENTRAL PRESSURE (mb.) 970
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C.I. (S.T.) NUMBER 5.0	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER 6.5	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 127
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SATELLITE GOES-6	PICTURE—(Circle) <input checked="" type="checkbox"/> IR VIS	RESOLUTION (n.mi.)—(Circle) 1/2 1 2 <input checked="" type="checkbox"/> 4
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PERSPECTIVE ADJUSTMENT (lat., long.) -06 / +04	(assuming cloud top defining eye at) 40,000 ft.
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ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____	ESTIMATED DIAMETER OF EYE (n.mi.) _____
--	--

MEAN MOTION VECTOR	325 degrees at	10 Knots over	6 hours
(towards)	315 degrees at	9 Knots over	12 hours
	310	12	24

REMARKS

DEADLINE (Circle) 0200Z <input checked="" type="checkbox"/> 0800Z 1400Z 2000Z	SFSS METEOROLOGIST NE/FT
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Message submitted (Z) 0630	Notified SAB (Z) 0635	NEW SFSS (Z)
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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 30 AUG 1985	TIME (Z) 0900	CYCLONE (Name/Number) ELENA
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LOCATION 27.6 N 87.4 W	Estimated within (n.mi.) 60	Location Confidence 3
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MAXIMUM WIND SPEED (kt.) 90	MINIMUM CENTRAL PRESSURE (mb.) 970
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C.I. (S.T.) NUMBER 5.0	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER 6.5	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 127
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SATELLITE GOES-6	PICTURE—(Circle) <input checked="" type="radio"/> IR VIS	RESOLUTION (n.mi.)—(Circle) 1/2 1 2 <input checked="" type="radio"/> 4
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PERSPECTIVE ADJUSTMENT (lat., long.) -.06/+04	(assuming cloud top defining eye at) 40,000 ft.
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ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____	ESTIMATED DIAMETER OF EYE (n.mi.) _____
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MEAN MOTION VECTOR	340	degrees at	7	Knots over	6	hours
(towards)	330	degrees at	8	Knots over	12	hours
	315		11		24	

REMARKS

DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z	SFSS METEOROLOGIST
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Message submitted (Z) 0925	Notified SAB (Z) 0930	NEW SFSS (Z)
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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE <i>30 August 19 85</i>	TIME (Z) <i>1200</i>	CYCLONE (Name/Number) <i>Elena</i>
LOCATION <i>27.4 N 87.2 W</i>	Estimated within (n.mi.) <i>60</i>	Location Confidence <i>5</i>
MAXIMUM WIND SPEED (kt.) <i>90</i>	MINIMUM CENTRAL PRESSURE (mb.) <i>970</i>	
C.I. (SF) NUMBER 50 <i>50</i>	INTENSITY CONFIDENCE <i>2</i>	
24 HOUR FORECAST C.I. NUMBER <i>OVERLAND</i>	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) <i>OVERLAND</i>	
SATELLITE <i>GOES-6</i>	PICTURE—(Circle) IR <input checked="" type="radio"/> VIS	RESOLUTION (n.mi.)—(Circle) <input checked="" type="radio"/> 1/2 1 2 4
PERSPECTIVE ADJUSTMENT (lat., long.) _____ (assuming cloud top defining eye at) _____ ft. _____		
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____	ESTIMATED DIAMETER OF EYE (n.mi.) _____	
MEAN MOTION VECTOR <i>340</i> degrees at <i>6</i> Knots over <i>12</i> hours (towards) _____ degrees at _____ Knots over _____ hours		
REMARKS <i>T # is 4.5. unable to distinguish eye.</i>		
DEADLINE (Circle) 0200Z 0800Z <input checked="" type="radio"/> 1400Z 2000Z	SFSS METEOROLOGIST <i>JBL</i>	
Message submitted (Z) <i>1254</i>	Notified SAB (Z)	NEW SFSS (Z)

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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 30 August 19 85		TIME (Z) 1500	CYCLONE (Name/Number) Elena	
LOCATION 27.7 N 86.8 W		Estimated within (n.mi.) 45	Location Confidence B 5	
MAXIMUM WIND SPEED (kt.) 90		MINIMUM CENTRAL PRESSURE (mb.) 970		
C.I. (S.T.) NUMBER 5.0		INTENSITY CONFIDENCE 2		
24 HOUR FORECAST C.I. NUMBER OVERLAND		24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) OVERLAND		
SATELLITE GOES-6	PICTURE—(Circle) IR <input type="radio"/> VIS <input checked="" type="radio"/>		RESOLUTION (n.mi.)—(Circle) <input checked="" type="radio"/> 1/2 1 2 4	
PERSPECTIVE ADJUSTMENT (lat., long.) -1/00		(assuming cloud top defining eye at) 40,000 ft.		
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____		ESTIMATED DIAMETER OF EYE (n.mi.) _____		
MEAN MOTION VECTOR <u>055</u> degrees at _____ knots over _____ hours (towards) _____ degrees at _____ knots over _____ hours				
REMARKS Intermediate Classification T# has wknd to 4.5				
DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z		SFSS METEOROLOGIST JBL		
Message submitted (Z) 1549		Notified SAB (Z)		NEW SFSS (Z)

WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE <i>30 August 1985</i>		TIME (Z) <i>1800</i>	CYCLONE (Name/Number) <i>Elena</i>	
LOCATION <i>28.1 N 86.6 W</i>		Estimated within (n.mi.) <i>45</i>	Location Confidence <i>5</i>	
MAXIMUM WIND SPEED (kt.) <i>90 kt.</i>		MINIMUM CENTRAL PRESSURE (mb.) <i>990</i>		
C.I. (S.F.) NUMBER <i>5.0</i>		INTENSITY CONFIDENCE <i>2</i>		
24 HOUR FORECAST C.I. NUMBER <i>OVERLAND</i>		24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) <i>OVERLAND</i>		
SATELLITE <i>GOES-6</i>	PICTURE—(Circle) IR <input type="checkbox"/> <input checked="" type="checkbox"/> VIS		RESOLUTION (n.mi.)—(Circle) <input checked="" type="checkbox"/> 1/2 1 2 4	
PERSPECTIVE ADJUSTMENT (lat., long.) <i>-108/10.0</i>		(assuming cloud top defining eye at) <i>40,000 ft.</i>		
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____		ESTIMATED DIAMETER OF EYE (n.mi.) _____		
MEAN MOTION VECTOR <i>035</i> degrees at _____ knots over _____ hours (towards) _____ degrees at _____ knots over _____ hours				
REMARKS <i>T# is 4.5.</i> <i>No eye distinguishable, yet.</i>				
DEADLINE (Circle) 0200Z 0800Z 1400Z <input checked="" type="checkbox"/> 2000Z		SFSS METEOROLOGIST <i>JBL</i>		
Message submitted (Z) <i>1842</i>		Notified SAB (Z)		NEW SFSS (Z)

WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 30 Aug 19 85	TIME (Z) 2100	CYCLONE (Name/Number) ELENA
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LOCATION 28.3 N 86.4 W	Estimated within (n.mi.) 30	Location Confidence 15
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MAXIMUM WIND SPEED (kt.) 90	MINIMUM CENTRAL PRESSURE (mb.) 970
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C.I. (S.T.) NUMBER 5.0	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER over Land	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) over Land
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SATELLITE Goes-6	PICTURE—(Circle) IR (VIS)	RESOLUTION (n.mi.)—(Circle) (1/2) 1 2 4
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PERSPECTIVE ADJUSTMENT (lat., long.) - .07 / +.03	(assuming cloud top defining eye at) 40,000 ft.
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ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) —	ESTIMATED DIAMETER OF EYE (n.mi.) —
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MEAN MOTION VECTOR	030 degrees at	7 Knots over	6 hours
(towards)	040 degrees at	5 Knots over	15 hours

REMARKS

DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z	SFSS METEOROLOGIST SW
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Message submitted (Z) 2002	Notified SAB (Z)	NEW SFSS (Z)
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WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 31 Aug 19 85	TIME (Z) 0000	CYCLONE (Name/Number) ELENA
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LOCATION 28.3 N 86.1 W	Estimated within (n.mi.) 30	Location Confidence 5
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MAXIMUM WIND SPEED (kt.) 77	MINIMUM CENTRAL PRESSURE (mb.) 979
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C.I. (S-F) NUMBER 4.5	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER OVERLAND	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) OVERLAND
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SATELLITE Goes-6	PICTURE—(Circle) <input checked="" type="radio"/> IR VIS	RESOLUTION (n.mi.)—(Circle) 1/2 1 2 <input checked="" type="radio"/> 4
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PERSPECTIVE ADJUSTMENT (lat., long.) -.07 / +.03	(assuming cloud top defining eye at) 40,000 ft.
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ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) —	ESTIMATED DIAMETER OF EYE (n.mi.) —
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MEAN MOTION VECTOR	<u>070</u> degrees at	<u>4</u> Knots over	<u>6</u> hours
(towards)	<u>050</u> degrees at	<u>8</u> Knots over	<u>12</u> hours

REMARKS

DEADLINE (Circle) <input checked="" type="radio"/> 0200Z 0800Z 1400Z 2000Z	SFSS METEOROLOGIST SW
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Message submitted (Z)	Notified SAB (Z)	NEW SFSS (Z)
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WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 31 Aug 1985	TIME (Z) 0300Z	CYCLONE (Name/Number) ELENA
LOCATION 28.2 N 85.6 W	Estimated within (n.mi.) 45	Location Confidence 5
MAXIMUM WIND SPEED (kt.) 77	MINIMUM CENTRAL PRESSURE (mb.) 979	
C.I. (S.T.) NUMBER 4.5	INTENSITY CONFIDENCE 2	
24 HOUR FORECAST C.I. NUMBER OVR LAND	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) OVER LAND	
SATELLITE Goes-6	PICTURE—(Circle) <input checked="" type="radio"/> IR VIS	RESOLUTION (n.mi.)—(Circle) 1/2 1 2 <input checked="" type="radio"/> 4
PERSPECTIVE ADJUSTMENT (lat., long.) -.07 / +.03		(assuming cloud top defining eye at) 40,000 ft.
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) —	ESTIMATED DIAMETER OF EYE (n.mi.) —	
MEAN MOTION VECTOR (towards) 100 degrees at 065 degrees at	7 knots over 6 knots over	6 hours 12 hours
REMARKS TNO = 4.0		
DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z	SFSS METEOROLOGIST SW	
Message submitted (Z)	Notified SAB (Z)	NEW SFSS (Z)

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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 31 AUG 19 85	TIME (Z) 0600	CYCLONE (Name/Number) ELENA
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LOCATION 28.3 N 85.5 W	Estimated within (n.mi.) 60	Location Confidence 5
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MAXIMUM WIND SPEED (kt.) 77	MINIMUM CENTRAL PRESSURE (mb.) 979
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C.I. (S.T.) NUMBER 4.5	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER OVERLAND	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) OVERLAND
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SATELLITE GOES-6	PICTURE—(Circle) <input checked="" type="radio"/> IR VIS	RESOLUTION (n.mi.)—(Circle) 1/2 1 2 <input checked="" type="radio"/> 4
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PERSPECTIVE ADJUSTMENT (lat., long.) -.07 / +.03	(assuming cloud top defining eye at) 40,000 ft.
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ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____	ESTIMATED DIAMETER OF EYE (n.mi.) _____
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MEAN MOTION VECTOR	<u>090</u> degrees at	<u>6</u> Knots over	<u>5</u> hours *
(towards)	<u>080</u> degrees at	<u>6</u> Knots over	<u>12</u> hours *

REMARKS

* 05Z IMAGE DUE TO ECLIPSE PERIOD.
06Z PHOTO NOT AVAILABLE

DEADLINE (Circle) 0200Z <input checked="" type="radio"/> 0800Z 1400Z 2000Z	SFSS METEOROLOGIST NR/FT
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Message submitted (Z) 0700	Notified SAB (Z) 0705	NEW SFSS (Z)
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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 31 AUG 19 85		TIME (Z) 0900	CYCLONE (Name/Number) ELENA	
LOCATION 28.0 N 84.9 W		Estimated within (n.mi.) 60	Location Confidence 5	
MAXIMUM WIND SPEED (kt.) 77		MINIMUM CENTRAL PRESSURE (mb.) 979		
C.I. (S.T.) NUMBER 4.5		INTENSITY CONFIDENCE 2		
24 HOUR FORECAST C.I. NUMBER OVERLAND		24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) OVERLAND		
SATELLITE GOES-6	PICTURE—(Circle) <input checked="" type="radio"/> IR		RESOLUTION (n.mi.)—(Circle) 1/2 1 2 <input checked="" type="radio"/> 4	
PERSPECTIVE ADJUSTMENT (lat., long.) -07 / +03		(assuming cloud top defining eye at) 40,000 ft.		
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____		ESTIMATED DIAMETER OF EYE (n.mi.) _____		
MEAN MOTION VECTOR		_____ degrees at _____ Knots over _____ hours		
(towards) _____		_____ degrees at _____ Knots over _____ hours		
REMARKS				
DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z		SFSS METEOROLOGIST NE		
Message submitted (Z) 1000		Notified SAB (Z) 1005		NEW SFSS (Z)

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 31 August 1985 TIME (Z) 1200 CYCLONE (Name/Number) Elena

LOCATION 28.5 N 84.5 W Estimated within (n.mi.) 45 Location Confidence 3

MAXIMUM WIND SPEED (kt.) 77 MINIMUM CENTRAL PRESSURE (mb.) 979

C.I. (S.T.) NUMBER 4.5 INTENSITY CONFIDENCE 1

24 HOUR FORECAST C.I. NUMBER OVERLAND 24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) OVERLAND

SATELLITE GOES-G PICTURE—(Circle) IR VIS RESOLUTION (n.mi.)—(Circle) 1/2 1 2 4

PERSPECTIVE ADJUSTMENT (lat., long.) — (assuming cloud top defining eye at) — ft.

ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) — ESTIMATED DIAMETER OF EYE (n.mi.) 40

MEAN MOTION VECTOR 085 degrees at 7 Knots over 12 hours
(towards) — degrees at — Knots over — hours

REMARKS
Rgd eye.

DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z SFSS METEOROLOGIST JBL

Message submitted (Z) 1249 Notified SAB (Z) — NEW SFSS (Z) —

WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE <i>31 August</i> 19 <i>85</i>		TIME (Z) <i>1500</i>	CYCLONE (Name/Number) <i>Elena</i>	
LOCATION <i>28.9 N 84.1 W</i>		Estimated-within (n.mi.) <i>45</i>	Location Confidence <i>3</i>	
MAXIMUM WIND SPEED (kt.) <i>77</i>		MINIMUM CENTRAL PRESSURE (mb.) <i>979</i>		
C.I. (S.T.) NUMBER <i>4.5</i>		INTENSITY CONFIDENCE <i>1</i>		
24 HOUR FORECAST C.I. NUMBER <i>OVER LAND</i>		24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) <i>OVER LAND</i>		
SATELLITE <i>GOES-6</i>	PICTURE—(Circle) <i>IR</i> <input checked="" type="radio"/> <i>VIS</i>		RESOLUTION (n.mi.)—(Circle) <input checked="" type="radio"/> <i>1/2</i> 1 2 4	
PERSPECTIVE ADJUSTMENT (lat., long.) <i>-11/00</i>		(assuming cloud top defining eye at) <i>40000 ft.</i>		
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) <i>_____</i>		ESTIMATED DIAMETER OF EYE (n.mi.) <i>30</i>		
MEAN MOTION VECTOR <i>060</i> degrees at		<i>7</i> Knots over	<i>12</i> hours	
(towards) <i>040</i> degrees at		<i>11</i> Knots over	<i>3</i> hours	
REMARKS <i>Intermediate Clas. Banding type eye</i>				
DEADLINE (Circle) <input type="checkbox"/> 0200Z <input type="checkbox"/> 0800Z <input type="checkbox"/> 1400Z <input type="checkbox"/> 2000Z		SFSS METEOROLOGIST <i>JBL</i>		
Message submitted (Z) <i>1543</i>		Notified SAB (Z)		NEW SFSS (Z)

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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE <i>31 August 1985</i>	TIME (Z) <i>1800</i>	CYCLONE (Name/Number) <i>Elena</i>
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LOCATION <i>29.0 N 84.0 W</i>	Estimated within (n.mi.) <i>30</i>	Location Confidence <i>3</i>
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MAXIMUM WIND SPEED (kt.) <i>77</i>	MINIMUM CENTRAL PRESSURE (mb.) <i>979</i>
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C.I. (ST.) NUMBER <i>4.5</i>	INTENSITY CONFIDENCE <i>1</i>
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24 HOUR FORECAST C.I. NUMBER <i>OVERLAND</i>	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) <i>OVERLAND</i>
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SATELLITE <i>GOES-G</i>	PICTURE—(Circle) IR <u>VIS</u>	RESOLUTION (n.mi.)—(Circle) <u>1/2</u> 1 2 4
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PERSPECTIVE ADJUSTMENT (lat., long.) <i>-11.00</i>	(assuming cloud top defining eye at) <i>40,000 ft.</i>
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ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) <i>_____</i>	ESTIMATED DIAMETER OF EYE (n.mi.) <i>_____</i>
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MEAN MOTION VECTOR <u>060</u> degrees at <u>7</u> Knots over <u>12</u> hours
(towards) <u>040</u> degrees at <u>3</u> Knots over <u>3</u> hours

REMARKS

DEADLINE (Circle) 0200Z 0800Z 1400Z <u>2000Z</u>	SFSS METEOROLOGIST <i>JBL</i>
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Message submitted (Z) <i>1840</i>	Notified SAB (Z)	NEW SFSS (Z)
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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 31 AUG 1985	TIME (Z) 2100	CYCLONE (Name/Number) ELENA
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LOCATION 28.8 N 83.8 W	Estimated within (n.mi.) 30	Location Confidence 3
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MAXIMUM WIND SPEED (kt.) 77	MINIMUM CENTRAL PRESSURE (mb.) 97.9
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C.I. (S) NUMBER 4.5	INTENSITY CONFIDENCE
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24 HOUR FORECAST C.I. NUMBER —	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) —
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SATELLITE GOES-6	PICTURE—(Circle) IR <input type="checkbox"/> VIS <input checked="" type="checkbox"/>	RESOLUTION (n.mi.)—(Circle) <input checked="" type="checkbox"/> 1/2 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 4
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PERSPECTIVE ADJUSTMENT (lat., long.) _____ (assuming cloud top defining eye at) _____ ft.

ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) —	ESTIMATED DIAMETER OF EYE (n.mi.) —
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MEAN MOTION VECTOR 290 degrees at 03 knots over 06 hours
(towards) 050 degrees at 06 knots over 12 hours

REMARKS
Banding type eye.

DEADLINE (Circle) 0200Z 0800Z 1400Z <u>2000Z</u>	SFSS METEOROLOGIST mm
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Message submitted (Z) 2200Z	Notified SAB (Z)	NEW SFSS (Z)
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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 01 SEP 1985 TIME (Z) (0030) CYCLONE (Name/Number) ELENA

LOCATION 28.7_N 83.7_W Estimated within (n.mi.) 30 Location Confidence 3

MAXIMUM WIND SPEED (kt.) 77 MINIMUM CENTRAL PRESSURE (mb.) 979

C.I. (S.T.) NUMBER 4.5 INTENSITY CONFIDENCE 2

24 HOUR FORECAST C.I. NUMBER — 24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) —

SATELLITE GOES-6 PICTURE—(Circle) IR VIS RESOLUTION (n.mi.)—(Circle) 1/2 1 2 4

PERSPECTIVE ADJUSTMENT (lat., long.) — (assuming cloud top defining eye at) — ft.

ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) — ESTIMATED DIAMETER OF EYE (n.mi.) —

MEAN MOTION VECTOR 080 degrees at 05 Knots over 24 1/2 hours
(towards) 075 degrees at 04 Knots over 12 1/2 hours

REMARKS

DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z SFSS METEOROLOGIST mm

Message submitted (Z) 0100Z Notified SAB (Z) NEW SFSS (Z)

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 01 SEP 19 85	TIME (Z) 0300	CYCLONE (Name/Number) ELENA
LOCATION 28.5 N 83.7 W	Estimated within (n.mi.) 30	Location Confidence 4
MAXIMUM WIND SPEED (kt.) 77	MINIMUM CENTRAL PRESSURE (mb.) 979	
C.I. (SF) NUMBER 4.5	INTENSITY CONFIDENCE 2	
24 HOUR FORECAST C.I. NUMBER —	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) —	
SATELLITE GOES-6	PICTURE—(Circle) IR VIS	RESOLUTION (n.mi.)—(Circle) 1/2 1 2 4
PERSPECTIVE ADJUSTMENT (lat., long.) - 0.8 — + 0.4		(assuming cloud top defining eye at) 40000 ft.
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) —		ESTIMATED DIAMETER OF EYE (n.mi.) —
MEAN MOTION VECTOR (towards) 080 degrees at 140 degrees at	04 Knots over 03 Knots over	24 hours 12 hours
REMARKS		
DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z	SFSS METEOROLOGIST mm	
Message submitted (Z) 0330	Notified SAB (Z)	NEW SFSS (Z)

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 01 SEP 1985	TIME (Z) 0500	CYCLONE (Name/Number) ELENA
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LOCATION 28.2 _N 84.1 _W	Estimated within (n.mi.) 45	Location Confidence 4
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MAXIMUM WIND SPEED (kt.) 77	MINIMUM CENTRAL PRESSURE (mb.) 979
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C.I. (S.T.) NUMBER 4.5	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER _____	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) _____
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SATELLITE GOES-6	PICTURE—(Circle) <input checked="" type="checkbox"/> IR VIS	RESOLUTION (n.mi.)—(Circle) 1/2 1 2 <input checked="" type="checkbox"/> 4
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PERSPECTIVE ADJUSTMENT (lat., long.) -0.8 / +0.4	(assuming cloud top defining eye at) 40,000 ft.
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ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____	ESTIMATED DIAMETER OF EYE (n.mi.) _____
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MEAN MOTION VECTOR	235	degrees at	7	Knots over	4 1/2	hours
(towards)	190	degrees at	3	Knots over	11	hours

REMARKS

DEADLINE (Circle) 0200Z <input checked="" type="checkbox"/> 0800Z 1400Z 2000Z	SFSS METEOROLOGIST NE/FT
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Message submitted (Z) 0615	Notified SAB (Z) 0620	NEW SFSS (Z) 0620
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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 01 SEP 19 85	TIME (Z) 0900	CYCLONE (Name/Number) ELENA
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LOCATION 28.6 N 84.2 W	Estimated within (n.mi.) 45	Location Confidence 4
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MAXIMUM WIND SPEED (kt.) 77	MINIMUM CENTRAL PRESSURE (mb.) 979
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C.I. (S.T.) NUMBER 4.5	INTENSITY CONFIDENCE 2
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24 HOUR FORECAST C.I. NUMBER _____	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) _____
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SATELLITE GOES-6	PICTURE—(Circle) <input checked="" type="checkbox"/> IR VIS	RESOLUTION (n.mi.)—(Circle) 1/2 1 2 <input checked="" type="checkbox"/> 4
---------------------	--	--

PERSPECTIVE ADJUSTMENT (lat., long.) -0.8 / +0.4	(assuming cloud top defining eye at) 40,000 ft.
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ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) _____	ESTIMATED DIAMETER OF EYE (n.mi.) _____
--	--

MEAN MOTION VECTOR	285 degrees at	4 Knots over	6 hours
(towards)	250 degrees at	3 Knots over	8 1/2 hours
	235	2	12

REMARKS

DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z	SFSS METEOROLOGIST
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Message submitted (Z) 0950	Notified SAB (Z) 0955	NEW SFSS (Z) 0957
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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE <i>1 September 19 85</i> <input checked="" type="checkbox"/>		TIME (Z) <i>1200</i>	CYCLONE (Name/Number) <i>Elena</i>
LOCATION <i>28.6 N 84.1 W</i>	Estimated within (n.mi.) <i>30</i>	Location Confidence <i>1</i>	
MAXIMUM WIND SPEED (kt.) <i>102</i>	MINIMUM CENTRAL PRESSURE (mb.) <i>960</i>		
C.I. (S.T.) NUMBER <i>5.5</i>	INTENSITY CONFIDENCE <i>2</i>		
24 HOUR FORECAST C.I. NUMBER <i>6.5</i>	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) <i>127</i>		
SATELLITE <i>GOES-6</i>	PICTURE—(Circle) <input type="checkbox"/> IR <input checked="" type="checkbox"/> VIS	RESOLUTION (n.mi.)—(Circle) <input checked="" type="checkbox"/> 1/2 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 4	
PERSPECTIVE ADJUSTMENT (lat., long.) <i>-11/100</i>		(assuming cloud top defining eye at) <i>40,000 ft.</i>	
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) <i>—</i>	ESTIMATED DIAMETER OF EYE (n.mi.) <i>15-20</i>		
MEAN MOTION VECTOR	<i>STAB</i> degrees at	<i>—</i> Knots over	<i>3</i> hours
(towards)	<i>250</i> degrees at	<i>2</i> Knots over	<i>12</i> hours
REMARKS <i>Eye has been very distinct</i>			
DEADLINE (Circle) <input type="checkbox"/> 0200Z <input type="checkbox"/> 0800Z <input checked="" type="checkbox"/> 1400Z <input type="checkbox"/> 2000Z		SFSS METEOROLOGIST <i>JBK</i>	
Message submitted (Z)	Notified SAB (Z)	NEW SFSS (Z)	

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE <i>1 September 19 85</i>	TIME (Z) <i>1500</i>	CYCLONE (Name/Number) <i>Elena</i>
LOCATION <i>28.8 N 84.3 W</i>	Estimated within (n.mi.) <i>10</i>	Location Confidence <i>1</i>
MAXIMUM WIND SPEED (kt.) <i>115</i>	MINIMUM CENTRAL PRESSURE (mb.) <i>948</i>	
C.I. (S.T.) NUMBER <i>6.0</i>	INTENSITY CONFIDENCE <i>2</i>	
24 HOUR FORECAST C.I. NUMBER <i>7.0</i>	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) <i>140</i>	
SATELLITE <i>GOES-6</i>	PICTURE—(Circle) IR <input type="checkbox"/> <input checked="" type="checkbox"/> VIS	RESOLUTION (n.mi.)—(Circle) <input checked="" type="checkbox"/> 1/2 1 2 4
PERSPECTIVE ADJUSTMENT (lat., long.) <i>-1/00</i>	(assuming cloud top defining eye at) <i>40,000</i> ft.	
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.)	ESTIMATED DIAMETER OF EYE (n.mi.) <i>15-20nm</i>	
MEAN MOTION VECTOR <u><i>320</i></u> degrees at <u><i>5</i></u> Knots over <u><i>3</i></u> hours (towards) _____ degrees at _____ Knots over _____ hours		
REMARKS <i>Intermediate Clas</i>		
DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z	SFSS METEOROLOGIST <i>JBL</i>	
Message submitted (Z) <i>1541</i>	Notified SAB (Z)	NEW SFSS (Z)

WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 1 September 19 85		TIME (Z) 1800	CYCLONE (Name/Number) Elena	
LOCATION 29.0 N 84.8 W		Estimated within (n.mi.) 10	Location Confidence 1	
MAXIMUM WIND SPEED (kt.) 115		MINIMUM CENTRAL PRESSURE (mb.) 948		
C.I. (S.T.) NUMBER 6.0		INTENSITY CONFIDENCE 2		
24 HOUR FORECAST C.I. NUMBER 7.0		24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) 140		
SATELLITE GOES-G	PICTURE—(Circle) IR <u>VIS</u>		RESOLUTION (n.mi.)—(Circle) <u>1/2</u> 1 2 4	
PERSPECTIVE ADJUSTMENT (lat., long.) -14/00		(assuming cloud top defining eye at) 40,000 ft.		
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) 20		ESTIMATED DIAMETER OF EYE (n.mi.) 15		
MEAN MOTION VECTOR <u>295</u> degrees at <u>10</u> Knots over <u>3</u> hours (towards) _____ degrees at _____ Knots over _____ hours				
REMARKS				
DEADLINE (Circle) 0200Z 0800Z 1400Z <u>2000Z</u>		SFSS METEOROLOGIST JB L		
Message submitted (Z) 1845		Notified SAB (Z)		NEW SFSS (Z)

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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE <u>01 SEP</u> 19 <u>85</u>	TIME (Z) <u>2100</u>	CYCLONE (Name/Number) <u>ELENA</u>
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LOCATION <u>29.2 N 85.2 W</u>	Estimated within (n.mi.) <u>15</u>	Location Confidence <u>1</u>
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MAXIMUM WIND SPEED (kt.) <u>115</u>	MINIMUM CENTRAL PRESSURE (mb.) <u>948</u>
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C.I. (SF) NUMBER <u>6.0</u>	INTENSITY CONFIDENCE <u>2</u>
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24 HOUR FORECAST C.I. NUMBER <u>6.5</u>	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) <u>127</u>
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SATELLITE <u>GOES-6</u>	PICTURE—(Circle) IR <input type="checkbox"/> <u>VIS</u> <input checked="" type="checkbox"/>	RESOLUTION (n.mi.)—(Circle) <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 4
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PERSPECTIVE ADJUSTMENT (lat., long.) <u>-1 / 00</u>	(assuming cloud top defining eye at) <u>4000 ft.</u>
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ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) <u>20</u>	ESTIMATED DIAMETER OF EYE (n.mi.) <u>15-20</u>
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MEAN MOTION VECTOR <u>290</u> degrees at <u>03</u> Knots over <u>24</u> hours
(towards) <u>300</u> degrees at <u>06</u> Knots over <u>12</u> hours

REMARKS

DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z	SFSS METEOROLOGIST <u>MM</u>
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Message submitted (Z) <u>2145</u>	Notified SAB (Z)	NEW SFSS (Z)
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MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

V For compute data input.

_____ For weak systems unable to classify.

Date: 01 SEP 1985 Time: 2200Z Cyclone name/number: ELENA

LOCATION: 29.3N 85.4W (of vortex, if evident) estimated within 15 nm.

Location confidence: 1 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: -110; assuming cloud top defining eye at 40000 ft.

Mean motion vector: 295 degrees at 09 knots over 07 hours
(towards) " " " " " "

Remarks:

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: MM Message actually submitted to NHC: 2310 Z

* See Gaby's memo of 26 Apr 74.

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

_____ For compute data input.

_____ For weak systems unable to classify.

Date: 01 SEP 1985 Time: 2300Z Cyclone name/number: ELENA

LOCATION: 29.3 N 85.5 W (of vortex, if evident) estimated within 15 nm.

Location confidence: 1 (*)

Satellite: FAES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: -1 / 0; assuming cloud top defining eye at 4000 ft.

Mean motion vector: 295 degrees at 08 knots over 07 hours
(towards) " " " " " "

Remarks:

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: mm Message actually submitted to NHC: 2350 Z

* See Gaby's memo of 26 Apr 74.

WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE <u>02 SEP</u> 19 <u>85</u>		TIME (Z) <u>0000</u>	CYCLONE (Name/Number) <u>ELENA</u>	
LOCATION <u>29.3^N 85.7^W</u>		Estimated within (n.mi.) <u>15</u>	Location Confidence <u>1</u>	
MAXIMUM WIND SPEED (kt.) <u>115</u>		MINIMUM CENTRAL PRESSURE (mb.) <u>948</u>		
C.I. (SF) NUMBER <u>6.0</u>		INTENSITY CONFIDENCE <u>2</u>		
24 HOUR FORECAST C.I. NUMBER <u>—</u>		24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) <u>—</u>		
SATELLITE <u>GOES-6</u>	PICTURE—(Circle) <u>IR</u> VIS		RESOLUTION (n.mi.)—(Circle) <u>1/2</u> 1 2 <u>4</u>	
PERSPECTIVE ADJUSTMENT (lat., long.) <u>-01/00</u>		(assuming cloud top defining eye at) <u>40000</u> ft.		
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) <u>—</u>		ESTIMATED DIAMETER OF EYE (n.mi.) <u>20-25</u>		
MEAN MOTION VECTOR <u>290</u> degrees at		<u>08</u> Knots over	<u>06</u> hours	
(towards) <u>300</u> degrees at		<u>08</u> Knots over	<u>12</u> hours	
REMARKS <u>T# has dropped to 5.0</u>				
DEADLINE (Circle) <u>0200Z</u> 0800Z 1400Z 2000Z		SFSS METEOROLOGIST <u>mm</u>		
Message submitted (Z) <u>0044</u>		Notified SAB (Z)		NEW SFSS (Z)

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

For compute data input.

For weak systems unable to classify.

Date: 02 SEP 19 85 Time: 0100Z Cyclone name/number: ELENA

LOCATION: 29.3N 85.9W (of vortex, if evident) estimated within 10 nm.

Location confidence: 1 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: -1/0; assuming cloud top defining eye at 40000 ft.

Mean motion vector: 290 degrees at 09 knots over 07 hours
(towards) 270 " " 09 " " 03 " "

Remarks:

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: mm Message actually submitted to NHC: 0140 2

* See Gaby's memo of 26 Apr 74.

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

For compute data input.

For weak systems unable to classify.

Date: 02 SEP 1985 Time: 0200Z Cyclone name/number: ELENA

LOCATION: 29.3N 86.2W (of vortex, if evident) estimated within 15 nm.

Location confidence: 1 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: -1/0; assuming cloud top defining eye at 4000 ft.

Mean motion vector: 280 degrees at 10 knots over 08 hours
(towards) 270 " " 11 " " 04 "

Remarks:

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: ma Message actually submitted to NHC: 0245 Z

* See Gaby's memo of 26 Apr 74.

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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

**MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL
CYCLONE CLASSIFICATION**

DATE 02 SEP 19 85 TIME (Z) 0300 CYCLONE (Name/Number) ELENA

LOCATION 29.3 N 86.4 W Estimated within (n.mi.) 15 Location Confidence 2

MAXIMUM WIND SPEED (kt.) 102 MINIMUM CENTRAL PRESSURE (mb.) 960

C.I. (SF) NUMBER 5.5 INTENSITY CONFIDENCE 2

24 HOUR FORECAST C.I. NUMBER - 24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) -

SATELLITE GOES-6 PICTURE—(Circle) IR VIS RESOLUTION (n.mi.)—(Circle) 1/2 1 2 4

PERSPECTIVE ADJUSTMENT (lat., long.) -1 / 0 (assuming cloud top defining eye at) 4000 ft.

ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) ESTIMATED DIAMETER OF EYE (n.mi.)

MEAN MOTION VECTOR 270 degrees at 11 Knots over 0.5 hours
(towards) _____ degrees at _____ Knots over _____ hours

REMARKS
T# = 4.5

DEADLINE (Circle) 0200Z 0800Z 1400Z 2000Z SFSS METEOROLOGIST mm

Message submitted (Z) 0340 Notified SAB (Z) NEW SFSS (Z) Clark 0330Z

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

For compute data input.

For weak systems unable to classify.

Date: 2 Sept 1985 Time: 0400Z Cyclone name/number: Elena

LOCATION: 29.4 N 86.6 W (of vortex, if evident) estimated within 15 nm.

Location confidence: 1 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: -.07 + .04; assuming cloud top defining eye at 40K ft.

Mean motion vector: $\frac{285}{275}$ degrees at $\frac{9}{10}$ knots over $\frac{12}{6}$ hours
(towards) " " " " " "

Remarks:

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: JSL Message actually submitted to NHC: 0450Z

* See Gaby's memo of 26 Apr 74.

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

For compute data input.

For weak systems unable to classify.

Date: 2 Sept 1985 Time: 0800Z Cyclone name/number: Elena

LOCATION: 29.7 N 87.7 W (of vortex, if evident) estimated within 15 nm.

Location confidence: 1 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: -.07 / +.04; assuming cloud top defining eye at 40K ft.

Mean motion vector: 285 degrees at 12 knots over 12 hours
(towards) 290 " " 12 " " 6 "
290 13 3

Remarks:

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: 9SL Message actually submitted to NHC: 0818 Z

* See Gaby's memo of 26 Apr 74.

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(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE <u>2 Sept 1985</u>	TIME (Z) <u>0900Z</u>	CYCLONE (Name/Number) <u>Elena</u>
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LOCATION <u>29.9 N 88.0 W</u>	Estimated within (n.mi.) <u>15</u>	Location Confidence <u>1</u>
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MAXIMUM WIND SPEED (kt.) <u>102kt</u>	MINIMUM CENTRAL PRESSURE (mb.) <u>960</u>
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C.I. (SF) NUMBER <u>5.5</u>	INTENSITY CONFIDENCE <u>1</u>
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24 HOUR FORECAST C.I. NUMBER <u>—</u>	24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) <u>—</u>
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SATELLITE <u>GOES-6</u>	PICTURE—(Circle) <u>IR 3</u> VIS	RESOLUTION (n.mi.)—(Circle) <u>1/2</u> 1 2 <u>4</u>
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PERSPECTIVE ADJUSTMENT (lat., long.) <u>-.07 / +.04</u>	(assuming cloud top defining eye at) <u>40000 ft.</u>
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ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) <u>60</u>	ESTIMATED DIAMETER OF EYE (n.mi.) <u>25</u>
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MEAN MOTION VECTOR <u>290</u> degrees at <u>9</u> Knots over <u>24</u> hours
(towards) <u>295</u> degrees at <u>15</u> Knots over <u>6</u> hours
<u>295</u> <u>15</u> <u>4</u>

REMARKS

DEADLINE (Circle) 0200Z <u>0800Z</u> 1400Z 2000Z	SFSS METEOROLOGIST <u>QSL</u>
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Message submitted (Z) <u>0937</u>	Notified SAB (Z)	NEW SFSS (Z)
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MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

For compute data input.

For weak systems unable to classify.

Date: 2 Sept 1985 Time: 1000 Z Cyclone name/number: Elena

LOCATION: 29.9 N 88.3 W (of vortex, if evident) estimated within 15 nm.

Location confidence: 1 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: -0.071 + 0.04; assuming cloud top defining eye at 4000 ft.

Mean motion vector: 285 degrees at 14 knots over 12 hours
(towards) 290 " " 16 " " 6 "

Remarks:

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: JSL/mm Message actually submitted to NHC: 1022 Z

* See Gaby's memo of 26 Apr 74.

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

For compute data input.

For weak systems unable to classify.

Date: 2 Sept. 1985 Time: 1100 Z Cyclone name/number: Elena

LOCATION: 30.2 N 88.6 W (of vortex, if evident) estimated within nm.

Location confidence: 1 (*)

Satellite: GOES-6 Picture: (IR) VIS Resolution: 1 2 4 (8) km.

Perspective adjustment: -11 00 ; assuming cloud top defining eye at 4000 ft.

Mean motion vector: 290 degrees at 16 knots over 6 hours
(towards) " " " " " " " "

Remarks:

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: JBL Message actually submitted to NHC: 1142 Z

* See Gaby's memo of 26 Apr 74.

WS C-39
(3-85)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE CLASSIFICATION

DATE 2 September 19 85		TIME (Z) 1230	CYCLONE (Name/Number) Elena	
LOCATION 30.5 N 88.8 W		Estimated within (n.mi.) 15	Location Confidence 1	
MAXIMUM WIND SPEED (kt.) OVERLAND		MINIMUM CENTRAL PRESSURE (mb.) OVERLAND		
C.I. (S.T.) NUMBER "		INTENSITY CONFIDENCE "		
24 HOUR FORECAST C.I. NUMBER —		24 HOUR FORECAST MAXIMUM WIND SPEED (kt.) —		
SATELLITE GOES-6	PICTURE—(Circle) IR <input type="radio"/> VIS <input checked="" type="radio"/>		RESOLUTION (n.mi.)—(Circle) <input checked="" type="radio"/> 1/2 1 2 4	
PERSPECTIVE ADJUSTMENT (lat., long.) -1/00		(assuming cloud top defining eye at) 40,000 ft.		
ESTIMATED RADIUS OF MAXIMUM WINDS (n.mi.) —		ESTIMATED DIAMETER OF EYE (n.mi.) 15-20		
MEAN MOTION VECTOR <u>300</u> degrees at		<u>15</u> Knots over	<u>7 1/2</u> hours	
(towards) _____ degrees at		_____ Knots over	_____ hours	
REMARKS Eye is overland, hence, no intensity est.				
DEADLINE (Circle) 0200Z 0800Z <input checked="" type="radio"/> 1400Z 2000Z		SFSS METEOROLOGIST JBL		
Message submitted (Z) 1310		Notified SAB (Z)		NEW SFSS (Z)

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

_____ For compute data input.

✓ For weak systems unable to classify.

Date: 2 Sept 1985 Time: 1500 Z Cyclone name/number: Elena

LOCATION: 30.7 N 89.8 W (of vortex, if evident) estimated within 25 nm.

Location confidence: 3 (*)

Satellite: GOES-6 Picture: IR VIS Resolution: 1 2 4 8 km.

Perspective adjustment: 71/100; assuming cloud top defining eye at 40,000 ft.

Mean motion vector: 290 degrees at 20 knots over 2 1/2 hours
(towards) 295 " " 18 " " 6 "

Remarks:

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: JBL Message actually submitted to NHC: 1548 Z

* See Gaby's memo of 26 Apr 74.

MIAMI SFSS/NHC TROPICAL AND SUBTROPICAL CYCLONE LOCATION

_____ For compute data input.

For weak systems unable to classify.

Date: 2 September 1985 Time: 1800Z Cyclone name/number: Elena

LOCATION: 31.1 N 90.5 W (of vortex, if evident) estimated within 30 nm.

Location confidence: 5 (*)

Satellite: GOES-6 Picture: IR (VIS) Resolution: (1) 2 4 8 km.

Perspective adjustment: -11 00; assuming cloud top defining eye at 40,000 ft.

Mean motion vector: 295 degrees at 19 knots over 6 hours
(towards) " " " " " "

Remarks:

Submit by 0700Z, 1300Z, 1900Z, 0100Z ----- (for computes only).

SFSS meteorologist: JBL Message actually submitted to NHC: 1855 Z

* See Gaby's memo of 26 Apr 74.

TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL
(AND DT CONSTRAINTS)

STEP --		Data T-Number Computation												Trend		MET		PAT		FT		CI		24-Hr. Fcst		REMARKS					
DESCRIPTION --	Imagery	Location		CCC	Curved Band or Shear				Eye		E _{No} +E _{Adj} =CF		CDO	Emb. Centr.	Data T-Number Computation		24-Hr change	Model	Pattern	Final T-Number	Current Intensity Number	Est. T-Number	Est. Int. Number								
RULES --	VIS/R	Locate Cloud System Center at focal point of cloud curvature		Use Rules	Use Spiral Arc Length				Eye		E _{No} +E _{Adj} =CF		Use Size	Emb. Centr.	CF+BF=DT		Developing	Model	Pattern	Final T-Number	Current Intensity Number	Est. T-Number	Est. Int. Number								
DATE/TIME		LAT	LONG	Central Cold Cover	DT 1.5	DT 2.5	DT 3.5	DT 4.5	(VIS) Use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Definition	Central Dense Core	(EIR) Use Surrounding Temperature	CF	BF	DT	Developing	Model	Pattern	Final T-Number	Current Intensity Number	Est. T-Number	Est. Int. Number							
8/20 1200Z	VIS	16.5	56.0		.2												1.0	D	1.0	A	1.0	1.0	1.0	P	2.0	2.0					
	EIR																														
26/1800Z	VIS	16.8	58.5		.2												1.0	D	1.0	A	1.0	1.0	1.0	1.0	P	2.0	2.0				
	EIR																														
	VIS																														
27/000Z	EIR	18.5	61.7		.35												2.0	D	1.5	A	1.0	1.5	1.5	1.5	P	2.5	2.5				
	VIS																														
27/0600Z	EIR	17.2	65.8		.30												2.0	D	1.5	A	1.0	1.5	1.5	1.5	P	2.5	2.5				
27/1200Z	VIS	18.0	68.5		majority of circulation over Puerto Rico and Hispaniola																										
	EIR				majority of circulation remains over land																										
27/1800Z	VIS	18.0	71.0		majority of circulation remains over land																										
	EIR				majority of circulation remains over land																										
28/000Z	VIS																														
28/0000Z	EIR	19.2	74.2		.55												3.0	D	2.5	A	2.5	2.5	2.5	2.5	P	3.5	3.5				
	VIS																														
28/0600Z	EIR	21.1	76.0		.60												3.0	D	2.5	A	2.5	2.5	2.5	2.5	P	3.5	3.5				
28/1200Z	VIS	21.4	77.5		majority of circulation is over Cuba																										
	EIR				majority of circulation is over Cuba																										
28/1500Z	VIS	21.6	79.2		center remains over Cuba																										
	EIR				center remains over Cuba																										
28/1800Z	VIS	22.2	80.5		center remains over Cuba																										
	EIR				center remains over Cuba																										
28/2100Z	VIS	23.3	80.7		.60												3.0	D	3.0	A	3.0	3.0	3.0	3.0	3.0	P	4.0	4.0			
	EIR																														

TROPICAL CYCLONE ANALYSIS WORKSHEET

Fleeta September

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL
(AND DT CONSTRAINTS)

Brooksville 29.62 IN

STEP --		Data T-Number Computation										Trend					MET		PAT		FT		CI		24-Hr. Fcst			REMARKS								
DESCRIPTION -	Imagery	Location		CCC	Curved Band or Shear				Eye		E _{No} +E _{Adj} =CF		CDO	Emb. Centr.	CF+BF=DT		24-Hr change	D-developing	W-weakening	S-same	Model Expected T-Number	Pattern T-Number	Altitude	Clouds	VIS/EIR	RAISE	USED		Final T-Number	Current Intensity Number	Use Rule	Use	FCST T-Number	FCST	CE-Number	
RULES -	VIS/IR	Locate Cloud System Center at focal point of cloud curvature		Use Rules	Use Spiral Arc Length				(VIS) Use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Definition	Use Size	(EIR) Use Surrounding Temperature	CF	BF	DT	D-developing	W-weakening	S-same	Model Expected T-Number	Pattern T-Number	Altitude	Clouds	VIS/EIR	RAISE	USED	Final T-Number	Current Intensity Number	Use Rule	Use	FCST T-Number	FCST	CE-Number		
DATE/TIME		LAT	LONG		DT 1.5	DT 2.5	DT 3.5	DT 4.5		E _{No}	E _{Adj}			CF	BF	DT																				
No 002 date	VIS																																			
01/0030Z	EIR	28.7	83.7							LG 5.0	-5					4.5	S										4.5	4.5					* Embdd distance in block is < .5°			
	VIS																																			
01/0300Z	EIR									LG 5.0	-5					4.5	S										4.5	4.5						* Not embedded in LG 2.4° at 03Z, but 2.4° out past 3 hrs		
	VIS																																			
01/0500Z	EIR	28.2	84.1							LG 5.0	-5					4.5	S										4.5	4.5						UNCERTAIN		
	VIS																																			
01/0900Z	EIR	28.6	84.2							LG 5.0	-5					4.5	S										4.5	4.5						UNCERTAIN		
01/1200	VIS	28.6	84.1						1/2°	4.0	-5			3.5	2.0	5.5	D																			
01/1230	EIR	28.6	84.1						LG 5.0	4.5				5.5	0	5.5	D										5.5	5.5	P	6.5	6.5					
01/1500	VIS	28.8	84.3						3/4°	5.0	0			5.0	1.0	6.0	D																			
01/1500	EIR	28.7	84.3						LG 5.0	1.0				6.0	0	6.0	D										6.0	6.0	P	7.0	7.0					
01/1800	VIS	29.0	84.8						3/4°	5.0	0			5.0	1.0	6.0	D																			
01/1800	EIR	28.9	84.7						LG 5.0	0.5				5.5	0	5.5	D										6.0	6.0	P	7.0	7.0					
01/2100	VIS	29.2	85.2							4.5	-1			3.5	2	5.5	D																			
01/2100	EIR	29.2	85.1											McIDAS	5.3		D										5.5	6.0	P	6.5	6.5					
	VIS																																			
02/0000	EIR	29.3	85.7						MG 4.5	0				McIDAS	5.0		D										5.0	6.0							* McIDAS avg over 3 hrs = 4.8 P 7.5 NORA TR 11	
	VIS																																			
02/0300	EIR	29.3	86.1						MG 4.5	0				T ₂₁ (McIDAS)	4.6		S										4.5	5.5							Overland	
	VIS													T _{2h} (McIDAS)	4.5																					
02/0500	EIR	29.5	86.9						LG 5.0	0				5.0	0	5.0	S										5.0	5.5							Overland (I hope)	
	VIS													T _{2h} (McIDAS)	5.0																					
02/0900	EIR	29.9	88.0						LG 5.0	0				5.0	0	5.0	S										5.0	5.5							Overland (I hope)	

TROPICAL CYCLONE ANALYSIS WORKSHEET

FLORIDA
August 1985

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL
(AND DT CONSTRAINTS)

STEP -		Data T-Number Computation													Trend				24-Hr. Fcst				REMARKS					
DESCRIPTION -	Imagery	Location		CCC	Curved Band or Shear				Eye		E _{No} +E _{Adj} =CF		CDO	Emb. Centr.	CF+BF=DT	24-Hr change	MET	PAT	FT		CI	24-Hr. Fcst						
RULES -	VIS/IR	Locate Cloud System Center at focal point of cloud curvature		Use Rules	Use Spiral Arc Length				(VIS) Use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Definition	Use Size	(EIR) Use Surrounding Temperature	CF	BF	DT	D-developing	Model Expected	Pattern	Final T-Number	Current Intensity Number	Let Rule Used	Fcst T-Number	Fcst CE-Number			
DATE/TIME		LAT	LONG		DT1.5	DT2.5	DT3.5	DT4.5																				
30/1200	VIS	27.4	87.2											3.0	1.0	4.0	D	5.0	B	4.5								
30/1200	EIR	27.2	87.2										4.5	4.5	-	4.5	D	5.0	B	4.5	✓	T=DT	4.5	5.0	OVERLAND	2 1/2° diam irreg CDO L.G. Embdd entr		
30/1500	VIS	27.7	86.8											3.0	1.0	4.0	S	4.5	B	4.5								
30/1500	EIR	27.7	86.8										4.5	4.5	0	4.5	S	4.5	B	4.5	✓	T=DT	4.5	5.0	OVERLAND	L.G. embd entr		
30/1800Z	VIS	28.1	86.6							4.0			4.0	4.0	.5	4.5	S	4.5	B	4.5	✓	T=DT	4.5	5.0	OVERLAND	3/4° banding type eye L.G. embd entr		
30/1800	EIR	28.1	86.6										4.5	4.5	0	4.5	S	4.5	B	4.5	✓	T=DT	4.5	5.0	OVERLAND	L.G. embd entr		
30/2100Z	VIS	28.3	86.4							4.0	- .5		3.5	1.0	4.5	S	4.5	C	4.5	✓	T=DT	4.5	5.0				Bndr EYE 3/4°	
30/2100Z	EIR	28.3	86.5										LG	4.5	-	4.5	S	4.5	b	4.5		T=DT	4.5	5.0				
	VIS																											
30/0000Z	EIR	28.3	86.1										LG	4.5	-	4.5	S	5.0	c	4.5	L	T=DT	4.5	4.5	OVERLAND			
	VIS																											
31/0200Z	EIR	28.2	85.6										DG	4.0		4.0	W	4.0	C	4.5	L	T=DT	4.0	4.5	OVERLAND			
	VIS																											
31/0500Z	EIR	28.3	85.5										MG	4.0		4.0	W	4.0	C	4.5		T=DT	4.0	4.5	OVERLAND			
	VIS																											
31/0900Z	EIR	28.0	84.9										MG	4.0		4.0	S	4.0	c	4.5		T=DT	4.0	4.5	OVERLAND			
31/1200Z	VIS	28.5	84.5											4.5	0	4.5	S	4.5	A	4.5		T=DT	4.5	4.5			* 10 wd banding type eye	
31/1200Z	EIR	28.5	84.5										DE	4.5	0	4.5	S	4.5	B	4.5		T=DT	4.5	4.5				
31/1500	VIS	28.9	84.1											4.5	0	4.5	S	4.5	A	4.5		T=DT	4.5	4.5			10 wd banding type eye	
31/1500	EIR	28.6	84.3										LG-MG	4.3	0	4.3	S	4.5	B	4.5		T=DT	4.5	4.5				
31/1800	VIS	29.0	84.0											4.5	0	4.5	S	4.5	A	4.5		T=DT	4.5	4.5			10 wd banding type eye	
31/1800	EIR	29.0	83.9										LG	4.5	0	4.5	S	4.5	B	4.5		T=DT	4.5	4.5				
31/2100	VIS	28.8	83.8							4.5				4.5	0	4.5	S	4.5	A	4.5		T=DT	4.5	4.5			10 wide " " "	
31/2100	EIR	28.8	83.7										LG	4.5	0	4.5	S	4.5	B	4.5		T=DT	4.5	4.5				

TROPICAL CYCLONE ANALYSIS WORKSHEET

ELENA

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL
(AND DT CONSTRAINTS)

STEP -		Data T-Number Computation										T-NUMBER ESTIMATE FROM MODEL (AND DT CONSTRAINTS)							REMARKS					
DESCRIPTION -	Imagery	Location		CCC	Curved Band or Shear				Eye		E _{No} +E _{Adj} =CF		CDO	Emb. Centr.	Trend	MET	PAT	FT		CI	24-Hr. Fcst			
RULES -	VIS/IR	Locate Cloud System Center at focal point of cloud curvature		Use Rules	Use Spiral Arc Length				Eye		E _{No} +E _{Adj} =CF		CDO	Emb. Centr.	24-Hr. change	Model	Pattern	Final		Current Intensity Number	Use	FCST	FCST	FCST
DATE/TIME		LAT	LONG	Central Cold Cover	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) Use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Definition	Central Dense Core	(EIR) Use Surrounding Temperature	Developing	Expected T-Number	Pattern	Final	Current Intensity Number	Use	FCST	FCST	FCST	
29/0000	VIS																							
29/0000	EIR	23.5	81.3				1.0																	
29/0300	VIS						.8																	
29/0300	EIR	23.4	82.5																					
29/0600	VIS						1.25																	
29/0600	EIR	24.1	83.3																					
29/0900	VIS						1.25																	
29/0900	EIR	24.5	84.1																					
29/1200Z	VIS	21.8	85.0					.75°		4.0	-1.0			3.0	1.0	4.0								
29/1200Z	EIR	21.8	85.0					B		5.0	-1.0			4.0	0	4.0								
29/1500Z	VIS	25.2	85.2					1.0°		4.5	-1.0			3.5	1.0	4.5								
29/1500Z	EIR																							
29/1800Z	VIS	26.0	86.0					.75°		4.5	-1.0			3.5	1.0	4.5								
29/1800Z	EIR	26.0	86.0					LG		4.5	-.5			4.0		4.0								
29/2100Z	VIS																							
29/2100Z	VIS	26.3	86.6																					
30/0000Z	VIS																							
30/0000Z	EIR	26.4	86.8																					
30/0300Z	VIS																							
30/0300Z	EIR	27.0	87.2																					
30/0600Z	VIS																							
30/0600Z	EIR	27.3	87.4																					
30/0900Z	VIS																							
30/0900Z	EIR	27.6	87.4																					

System has shown signs of rapid development during last 3 classifications

Banding Eye

Banding Eye

TROPICAL CYCLONE ANALYSIS WORKSHEET

Vernon F. Dvorak
June 1983

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL
(AND DT CONSTRAINTS)

STEP -	1		2A,B				2C		2D	2E	Data T-Number Computation		3	4	5	6	7,8	9	10	INITIALS		
DESCRIPTION -	Location		Curved Band or Shear				Eye		$E_{No} + E_{Adj} = CF$	CDO	Emb. Centr.			CCC	Trend	MET	PAT	FT	CI		24-Hr. Fcst.	
RULES -	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length DT1.5 DT2.5 DT3.5 DT4.5				(VIS) Use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Definition	Use Size	Emb. Centr.	CF+BF=DT		Use Rules	24-Hr change	MET	PAT	Use Rules		CI	Adj. Model Fcst. if nec.
DATE/TIME	LAT	LONG										CF	BF	DT		D-developing W-weakening S-same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number	List Rule Used	Forecast Intensity Number
8/24/12Z	16.5	56.0	.2											-		No	C/A	S				
18Z	17.3	59.5	.3									1.5	1.5		D	1.0	1.0	1.0	1.0	P	2.0	
8/27/00Z	17.5	62.1	.3									1.5	1.5		D	1.0	1.0	1.0	1.0	P	2.0	
06Z	17.3	65.8	.3									1.5	1.5		D	1.5	1.5	1.5	1.5	P	2.5	
12Z	18.3	68.5													-	-	2.5					
18Z	19.6	71.5													-	-	2.5					
8/28/00Z	21.2	73.9	.4	.4								2.5	2.5		D	2.0	2.5A	2.0	2.0	P	3.0	
8/28/06Z	21.4	76.5	.4	.4								2.5	2.5		D	2.5	2.5b	2.5	2.5	P	3.5	
12Z	21.3	77.5													-	-	3.0					
18Z	22.7	80.7	.5	.5											-	-	2.5A					
8/29/00Z	23.5	81.5	.9									3.0	3.5		D	3.0	3.5A	3.0	3.0	P	4.0	
06Z	24.1	83.3										4.0	4.0		D	3.0	3.5A	3.5	3.5	P	4.5	
12Z	24.8	85.0										4.5	4.5		D	3.5	4.4	4.0	4.0	P	5.0	
1R 18Z	25.7	85.6										4.5	4.5	LG	D	3.5	4.6	4.5	4.5	P	5.5	
VIS 18Z	25.7	85.6										4.5	4.5		D	3.5	4.4	4.5	4.5	P	5.5	
8/30/00Z	26.4	86.8										4.5	4.5	LG	D	4.0	4.6	4.5	4.5	P	5.5	
06Z	27.3	87.4										5.0	5.0	W	D	4.5	5.6	5.0	5.0	B	5.5	
4.5 12Z	27.9	87.2										2.0	2.5	3/4	D	5.0	4.5b	5.0	5.0	B	5.5	
1R 12Z	27.9	87.2										5.0	5.0	W	D	5.0	5.6	5.0	5.0	B	5.5	
VIS 18Z	28.2	87.7										4.0	5.0	3/4	D	5.5	5.6	5.0	5.0	B	5.5	
1R 18Z	28.2	87.7										5.0	5.0	B	D	5.5	5.6	5.0	5.0	B	5.5	
8/31/00Z	28.3	85.6										4.5	4.5	LL	S	4.5	4.5b	4.5	5.0	P	4.5	
06Z	28.4	85.5										4.5	4.5	OG	W	4.0	4.6	4.5	5.0	P	4.0	
VIS 12Z	28.4	85.4										4.5	4.5		W	4.0	4.4	4.5	5.0	D	6.0	
1R 12Z	28.4	85.4										4.5	4.5		W	4.5	4.4	4.5	5.0	D	6.0	

5-A-32

TROPICAL CYCLONE ANALYSIS WORKSHEET

Vernon F. Dvorak
June 1983

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL
(AND DT CONSTRAINTS)

STEP -	1		2A,B				2C		2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	10	INITIALS		
DESCRIPTION -	Location		Curved Band or Shear				Eye		E _{No} +E _{Adj} =CF	CDO	Emb. Centr.	CF+BF=DT			CCC	Trend	MET	PAT	FT	CI		24-Hr. Fcst.	
RULES -	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length DT1.5 DT2.5 DT3.5 DT4.5				(VIS) Use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Definition	Use Size	Emb. Centr.	CF+BF=DT			Use Rules	24-Hr change	MET	PAT	Use Rules		CI	Adj. Model Fcst. if nec.
DATE/TIME	LAT	LONG							E _{No}	E _{Adj}			CF	BF	DT		D-developing W-weakening S-same	Model Expected T-Number	Pattern T-Number	Final T-Number		Current Intensity Number	List Rule Used
VIS 8/31/82	29.0	84.0							3	-5			2.5	2	4.5		W	4.0	4b	4.5	5.0	D	6.0
IR 182	29.0	84.0							5.5	-5					5.0		S	5.0	5b	5.0	5.0	D	6.0
9/1/00Z	28.7	83.7							5.0	-5			4.5		4.5		S	4.5	4.5b	4.5	4.5	P	4.5
06Z	28.2	84.1										LG	4.5		4.5		S	4.5	4.5b	4.5	4.5	P	4.5
IR 12Z	28.6	84.1							5.0	+5			5.5		5.5		D	5.5	5.5A	5.5	5.5	P	6.5
12Z	28.6	84.1						1/2	4.0	-			4.0	1.5	5.5		D	5.5	5.5A	5.5	5.5	P	6.5
IR 18Z	29.0	84.7							5.0	-			5.0	-	5.0		D	5.5	5c	5.5	5.5	P	6.5
VIS 18	29.0	84.7						1/2	4.0	-5			3.5	2	5.5		D	5.5	5.5b	5.5	5.5	P	6.5
9/2/00Z	29.3	85.7							4.5				4.5		4.5		S	4.5	4.5c	4.5	5.5	AB	4.5
06Z	29.5	86.9							5.0	-			5.0		5.0		D	5.5	5A	5.0	5.0	B	5.0
IR 1200Z	30.8	88.8							4.5	-			4.5		4.5		W	4.5	5c	4.5	5.0	ON SHORE	
VIS 30.8	88.8							1/4	3				3.0	2	5.0		W	4.5	5c	4.5	5.0		

MOVING
INLAND

5-A-32