JOB SHEET JS2-3-73
CELL TRENDS DISPLAY

INTRODUCTION

A new function on the graphic tablet is called Cell Trends. The operator can select a storm of interest, then select the function CELL TRENDS. The output displayed on the graphics screen includes: maximum reflectivity height, height of storm centroid, probability of hail and severe hail, cell based VIL, storm top and base, and maximum Reflectivity. The CELL TRENDS display is produced from the Storm Structure alphanumeric product. This means that the Storm Structure (SS) must be on the RPS list, and in the PUP database, to produce the CELL TRENDS product.

OBJECTIVE

Using the Graphic Tablet, you will be able to use the CELL TRENDS function to display relevant trend information on a given storm of interest.

REFERENCES

NWS EHB 6-531-1, USERS GUIDE: PUP/RPGOP, Section 6.16

PROCEDURE

Graphic Tablet

1. Select a Composite Reflectivity product on the right screen.

NOTE: You can select any geographical product and overlay it with the Storm Track (ST) overlay to help select a cell of interest. ***The point is, the storm series output must be in the database in order to accurately select an identified cell for the CELL TRENDS function.***

2. Select TRANSFER SCREEN product (left button).

- This command transfers the Composite Reflectivity product to the left screen and activates both screens for function manipulation.

3. Select a storm of interest that is identified in the Storm Track Attribute Table (right button). Preferably a storm with some history.

NOTE: When you select the storm of interest, the point must be within 4 km (2.2 nm) of the identified storm centroid. Otherwise, the message, "**SELECTED CELL NOT FOUND**" appears on the feedback line.

GRAPHIC TABLET

KEYBOARD | SYMBOLS | USER FUNCTIONS

EDIT COMMANDS

EDIT ANNOT	EDIT ALERT AREA	DELETE ALERT BOX		ADD ALERT BOX		DEL RCTL	ADD RCTL		EDIT RCM PART A		EDIT RCM PART C		57 25	58 26	59 27	60 28	61 29	62 30	63 31	64 32	26	27	28	29	30
EDIT MAP	HIGH DETAIL	! 1	@ 2	# 3	$ 4	% 5	^ 6	& 7	* 8	(9	) 0	+ =	BACK SPACE	51 19	52 20	53 21	54 22	55 23	56 24	21	22	23	24	25
START ERASE	END ERASE	Q	W	E	R	T	Y	U	I	O	P	_ -	RET	45 13	46 14	47 15	48 16	49 17	50 18	16	17	18	19	20
START LINE	END LINE	A	S	D	F	G	H	J	K	L	: ;	" '	UPPER SHIFT	39 7	40 8	41 9	42 10	43 11	44 12	11	12	13	14	15
CANCEL EDIT	EXIT EDIT & SAVE	Z	X	C	V	B	N	M	< ,	> .	? /	SPACE	LOWER SHIFT	33 1	34 2	35 3	36 4	37 5	38 6	6	7	8	9	10

PARAMETERS

AZRAN SELECT																					UF1	2	3	4	5
CROSS SECTION SELECT																					CANCEL UF	SPEED DOWN	SPEED UP	FRAME BACK	FRAME FORWARD
RPG																					TIME LAPSE RES/HLT	TIME LAPSE 1	TIME LAPSE 2	TIME LAPSE 3	CONTINUOUS LOOP
TIME																					AUTO RES/HLT	QUAD 1	QUAD 2	RECENTER MAG 1X	RECENTER MAG 2X
DATE																					FULL SCREEN	QUAD 3	QUAD 4	RECENTER MAG 4X	RECENTER MAG 8X
REPEAT COUNT																					CLEAR SCREEN/ QUAD	FILTER	COMBINE DOWN	COMBINE UP	CURSOR HOME DEFINE
END HOUR																					BLINK COLOR LEVEL	RESTORE DISPLAYED PRODUCT	GRAY/COLOR SCALE	CURSOR AUTO/ MANUAL	CURSOR LINK/UNLINK
SLICE/ DURATION																					ALL QUADRANTS	HARD COPY	PRESET CENTER	CURSOR HOME	AZRAN R/ LAT LON/ AZRAN H
CENTER AZIMUTH																					ACK ALERT	CELL TRENDS	VR/SHEAR DISPLAY	CURRENT CROSS SECTION CR	ANNOT'S AN
CENTER RANGE																					HAIL HI	MESO M	TVS TV	STORM TRACK ST	ATTRIBUTE AT
STORM DIRECTION																					ALERT AREA 1 A1	ALERT AREA 2 A2	SWP SW		COMBINED SHEAR CONTOUR SC
STORM SPEED																					OVERLAYS OFF/ON	OVERLAYS ERASE	MAP OVERLAY DELETE	STOP BLINK	PAGE ATTRIBUTE
CONTOUR INTERVAL																									
ALL/ONE SWA																									
MATCH PARA-METERS																									
DEFAULT PARA-METERS																									

DISPLAY FUNCTIONS

PRODUCT OVERLAYS

3

1

2

ELEVATION UP	LOW PRIORITY	DISPLAY PRODUCT	BASE REF R	COMP REF CR	COMP REF CONTOUR CRC	ECHO TOPS COUNTOUR ETC	REF CROSS SECTION RCS	ACK PRODUCT	DISPLAY QUEUED PRODUCT	PRODUCT OFF/ON	MAPS OFF/ON	MAPS ERASE	MAPS FOREGD/ BACKGD	CANCEL HELP
ELEVATION DOWN	REQUEST MAPS		BASE VEL V	STM REL VEL REGION SRR	STM REL VEL MAP SRM	ECHO TOPS ET	VEL CROSS SECTION VCS	PRODUCT BACK	PRODUCT FORWARD	TRANSFER SCREEN PRODUCT	STATE LAT/LON ST	COUNTY CO	HIGHWAY HY	RADAR SITES RS
LOWEST ELEVATION	BLANK TIME DATE	SEND RPG REQ	BASE SPECTRUM WIDTH SW	COMBINED SHEAR CS	COMBINED SHEAR CONTOUR CSC	COMBINED MOMENT CM	SPECTRUM WIDTH CROSS SECTION SCS	NEXRAD UNIT STATUS	CLEAR QUEUE	REDISPLAY LAST PRODUCT	RIVER RV	RIVER BASIN RB	RDA	RANGE RING
DED ASSOC RPG	.13 NM	8 LEVEL	ONE HOUR PRECIP OHP	THREE HOUR PRECIP THP	STORM TOTAL PRECIP STP	USER SELECTABLE PRECIP USP	STORM TRACK STI	TORNADO VORTEX SIGNATURE TVS	RADAR CODED MESSAGE RCM	ALL SWA PRODUCTS	WARNING AREA WA	MIL OPN AREA MO	POLAR GRID	LFM GRID LF
DIAL-UP ASSOC RPG	.27 NM	16 LEVEL	MESO M	SEVERE WEATHER PROBABILITY SWP	WEAK ECHO REGION WER	VERTICALLY INTEGRATED LIQUID VIL	VELOCITY AZIMUTH DISPLAY VAD	HAIL HI	SWA REF SWR	SWA VEL/SRR SWV/SWR	RSTRCTD AREA RA	PRHBTD AREA PA	AIRWAY HIGH AH	CITY CI
RPG 1	.54 NM	HIGH ALT	LAYER COMP REF MAX LRM	LAYER COMP TURB MAX LTM	LAYER COMP REF AVG LRA	LAYER COMP TURB AVG LTA	VAD WIND PROFILE VWP		SWA SPECTRUM WIDTH SWW	SWA SHEAR SWS	NAVAID NA	AIRPORT AP	AIRWAY LOW AL	COUNTY NAMES CN
RPG 2	1.1 NM	MID ALT												
RPG 3	2.2 NM	LOW ALT												

PARAMETERS | PRODUCTS | BACKGROUND MAPS

4. Select CELL TRENDS (right button).

- The four panel Cell Trends displays on the right graphics screen. The trends are shown in a time series graph format. Note that up to ten previous volume scans of data may be displayed for each of the following Cell Attributes:

Quadrant 1 Storm Top and Base, Height of Storm Centroid, Max Reflectivity Height

Quadrant 2 Probability of Severe Hail (POSH), Probability of Hail (POH)

Quadrant 3 Cell Based VIL

Quadrant 4 Maximum Reflectivity

- There is a polar plot in the Status/Annotation area. This plot, with respect to the RDA, indicates the location and ID number of the cell. It also helps determine if you chose the right cell for the CELL TRENDS output.

- Just below the polar plot is a list of the last ten volume scans. Times displayed as white indicate volume scans in which the storm cell was identified.

REMEMBER...if the Storm Structure (SS) product is not on the Current RPS list, the Cell Trends product is not available.

END

GRAPHIC TABLET

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DISPLAY FUNCTIONS

PRODUCT OVERLAYS

4

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