JOB SHEET JS2-3-32
POLAR GRID MAP
(Display and Manipulation)

INTRODUCTION

The Polar Grid map displays a polar grid superimposed over a product (usually a velocity product). The polar grid overlay helps operators interpret the velocity data along the radial from the RDA. This is especially important when interpreting rotation signatures from storm relative products, such as SRR or SRM.

The operator is now able to center the polar grid map at any cursor location. Anytime the background maps are redrawn, the polar grid center defaults back to the radar location. A yellow grid color indicates that the polar grid is not centered at the radar location (RDA) .

OBJECTIVE

Using the Graphic Tablet, you will be able to manipulate polar grid background maps at various cursor locations.

REFERENCES

NWS EHB 6-531-1, USERS GUIDE: PUP/RPGOP, Section 8.2.4

PROCEDURES

Graphic tablet

1. Display a SRM product on a full screen.

   - The Storm Relative Mean Radial Velocity Map displays.

2. Select the POLAR GRID Background Map.

   - A *white* polar grid background map overlays the SRM product with the grid **centered at the RDA location**.

3. Select a point of interest on the displayed SRM.

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
CROSS SECTION SELECT
RPG
TIME
DATE
REPEAT COUNT
END HOUR
SLICE/ DURATION
CENTER AZIMUTH
CENTER RANGE
STORM DIRECTION
STORM SPEED
CONTOUR INTERVAL
ALL/ONE SWA
MATCH PARA-METERS
DEFAULT PARA-METERS

1

UUF1	2	3	4	5										
CANCEL UF	SPEED DOWN	SPEED UP	FRAME BACK	FRAME FORWARD										
TIME LAPSE RES/HLT	TIME LAPSE 1	TIME LAPSE 2	TIME LAPSE 3	CONTINUOUS LOOP										
AUTO RES/HLT	QUAD 1	QUAD 2	RECENTER MAG 1X	RECENTER MAG 2X										
FULL SCREEN	QUAD 3	QUAD 4	RECENTER MAG 4X	RECENTER MAG 8X										
CLEAR SCREEN/ QUAD	FILTER	COMBINE DOWN	COMBINE UP	CURSOR HOME DEFINE										
BLINK COLOR LEVEL	RESTORE DISPLAYED PRODUCT	GRAY/COLOR SCALE	CURSOR AUTO/ MANUAL	CURSOR LINK/UNLINK										
ALL QUADRANTS	HARD COPY	PRESET CENTER	CURSOR HOME	AZRAN R/ LAT LON/ AZRAN H										
ACK ALERT	CELL TRENDS	VR/SHEAR DISPLAY	CURRENT CROSS SECTION CR	ANNOT'S AN										
HAIL HI	MESO M	TVS TV	STORM TRACK ST	ATTRIBUTE AT										
ALERT AREA 1 A1	ALERT AREA 2 A2	SWP SW		COMBINED SHEAR CONTOUR SC										
OVERLAYS OFF/ON	OVERLAYS ERASE	MAP OVERLAY DELETE	STOP BLINK	PAGE ATTRIBUTE										

DISPLAY FUNCTIONS

PRODUCT OVERLAYS

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												

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PARAMETERS | PRODUCTS | BACKGROUND MAPS

4. Select MAP/OVERLAY DELETE.

5. Select the POLAR GRID Background Map.

- The Polar Grid Background Map is removed from the display.

6. Re-select the POLAR GRID Background Map.

- A yellow Polar Grid background map displays on the SRM product. Notice that the Polar Grid is **centered on the point of interest** selected in step 3.

ADDITIONAL INFORMATION

Step 3, "Select a point of interest," may be selected after the Polar Grid background map is deleted (step 4 and 5).

Be especially careful when interpreting Storm Relative Mean Radial Velocity products with the Polar Grid Background Map centered on another point other than the RDA.

END

GRAPHIC TABLET

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RPG																				TIME LAPSE RES/HLT	TIME LAPSE 1	TIME LAPSE 2	TIME LAPSE 3	CONTINUOUS LOOP
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END HOUR																				BLINK COLOR LEVEL	RESTORE DISPLAYED PRODUCT	GRAY/COLOR SCALE	CURSOR AUTO/ MANUAL	CURSOR LINK/UNLINK
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CONTOUR INTERVAL																								
ALL/ONE SWA																								
MATCH PARA-METERS																								
DEFAULT PARA-METERS																								

DISPLAY FUNCTIONS

PRODUCT OVERLAYS

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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
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5

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PARAMETERS | PRODUCTS | BACKGROUND MAPS