

HF US 1 BOU 031300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 215A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 03 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200Z TO 03/1200Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD WITH ONLY SEVERAL C CLASS EVENTS BEING REPORTED. A C6/2B FROM REGION 3832 (S1IW37) AND A C7/SF FROM REGION 3829 (S12E03) AT 02/1716UT, ONLY MINOR RADIO OBSERVED WITH THESE EVENTS. REGION 3829 HAS EXHIBITED RAPID GROWTH AND NOW HAS A BETA GAMMA MAGNETIC CONFIGURATION. NEW REGION TODAY IS 3837 (N08E84), THIS IS THE RETURN OF OLD 3804, ONLY AN H TYPE SPOT VISIBLE AT THIS TIME HOWEVER CORONAL RAIN AND ACTIVE SURGES HAVE BEEN OBSERVED WITH THIS REGION.

B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE AS MORE OF THE EAST LIMB REGIONS ROTATE ONTO THE VISIBLE DISK, DUE TO THE SIZE OF OLD 3804 THIS MAY TAKE 36 HOURS TO COMPLETE. THE EAST LIMB ACTIVITY INDICATES A LARGE ACTIVE REGION AND A ISOLATED X CLASS EVENT IS POSSIBLE ANYTIME DURING THIS FORECAST PERIOD. REGION 3829, IF GROWTH CONTINUES, MAY BEGIN TO PRODUCE AN OCCASIONAL M CLASS FLARE DURING ITS DISK PASSAGE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD H CONTINUED ACTIVE, WITH PERIODS AT MINOR STORM LEVELS, THIS PERIOD. THE EFFECTS OF THE FILEAMENT WHICH DISAPPEARED ON 30 JULY IS EXPECTED TO DECREASE SO ONLY ACTIVE CONDITIONS ARE EXPECTED DURING THE NEXT 48 HOURS THEN UNSETTLED CONDITIONS FOR THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 04 AUG-06 AUG

CLASS M 75/75/75

CLASS X 15/15/20

PROTON 10/10/10

RCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 AUG 144

ESTIMATED 03 AUG 156

PREDICTED 04 AUG-06 AUG 166/181/188

90 DAY MEAN 02 AUG 160

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 AUG 011

)-0 02 AUG 042

ESTIMATED AFR 02 AUG 026 AFR/AP 03 AUG 029/032

PREDICTED AFR/AP 04 AUG-06 AUG 016/020-015/015-012/015

SOLTERWARN

BT

HFUS 3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 215B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 03 AUGUST 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/1200Z TO 03/2100Z : SOLAR ACTIVITY WAS LOW UNTIL 031824Z WHEN AN M1/SN FROM REGION 3830 (N17E17) INTERRUPTED THE LULL. SEVERAL C-TYPE X-RAY BURSTS HAVE BEEN OBSERVED WITHOUT OPTICAL CORRELATION AS HAVE SEVERAL SMALL RADIO BURSTS. OLD 3804, NOW 3837 (N10E77) HAS SO FAR EXHIBITED A STRING OF SPOTS EXTENDING BEYOND THE LIMB BUT NO COMPLEXITY OF ANY SIGNIFICANCE IS YET APPARENT. ANOTHER SMALL GROUP (3838) WAS NUMBERED TODAY AT N09E51.

IB. SOLAR ACTIVITY FORECAST : SOLAR ACTIVITY SHOULD BE INCREASING AS 3838 ROTATES FURTHER ONTO THE DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST : THE GEOMAGNETIC FIELD WAS AGAIN AT ACTIVE TO MINOR STORM LEVELS. A GRADUAL SUSSIDING OF DISTURBED CONDITIONS IS EXPECTED DURING THE NEXT 36 HOURS.

III. EVENT PROBABILITIES 04 AUGUST - 06 AUGUST

CLASS M 75/75/75

CLASS X 15/15/20

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 AUGUST 151

PREDICTED 04-06 AUGUST 166/181/188

90-DAY MEAN 03 AUGUST 160

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 AUGUST 32/42

ESTIMATED AFR/AP 03 AUGUST 26/32

PREDICTED AFR/AP 04-06 AUGUST 16/20 - 15/15 - 12/15

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*inhouse problems  
original tape A-ok.  
Waiting repairman.  
Bette*