

HFUS 3 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 132

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 MAY 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/2100 TO 11/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 4481 (N07E10) PRODUCED AN M1/1B AT 0725Z AND IMPULSIVE, SHORT-LIVED M1/SB AT 1047Z. WEAK TO MODERATE RADIO BURSTS ACCOMPANIED THESE FLARES. A RADIO NOISE STORM BEGAN TODAY AT CORONAL FREQUENCIES (245/410 MHZ) AND IS EXPECTED TO CONTINUE FOR SEVERAL DAYS. SUBTLE MAGNETIC CHANGES CONTINUE ON A DAILY BASIS IN REGION 4481. THE DELTAS REMAIN BUT THE GRADIENTS HAVE WEAKENED SINCE YESTERDAY. NO NEW REGIONS HAVE APPEARED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE WITH OCCASIONAL CLASS M FLARES FROM REGION 4481. THERE IS A SLIGHT CHANCE FOR A CLASS X FLARE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 10/2100Z TO 11/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE. THE EXPECTED DISTURBANCE FROM THE FILAMENT DISRUPTIONS HAS NOT YET DEVELOPED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO BE AT STORM LEVEL ON 12 MAY WITH A DECAY TO ACTIVE AND THEN UNSETTLED LEVELS BY THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 12 MAY-14 MAY

CLASS M 80/80/80

CLASS X 10/05/05

PROTON 10/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 MAY 142

PREDICTED 12 MAY-14 MAY 143/143/140

90 DAY MEAN 11 MAY 130

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 MAY 023/028

ESTIMATED AFR/AP 11 MAY 016/015

PREDICTED AFR/AP 12 MAY-14 MAY 036/040-014/020-008/010

SOLTERWARN

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