

HFUS 3 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 147

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 26 MAY 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/2100 TO 26/2100Z: SOLAR ACTIVITY HAS CONTINUED LOW DURING THE PAST 24 HOURS WITH ONLY C CLASS EVENTS OBSERVED THE LARGEST WAS A C6/SB FROM REGION 4492 (S10W33) AT 0605UT. REGION 4492 HAS EXHIBITED RAPID DECAY ON BOTH ENDS WITH ONLY THE MIDDLE OF THE GROUP SHOWING EVEN MINOR COMPLEXITY. NO DELTA IS VISIBLE TODAY ON THE VARIOUS MAGNETIC MAPS. A SIX DEGREE LONG FILAMENT WHICH WAS LOCATED NEAR S28W00 DISAPPEARED BEGINNING AROUND 1700UT. THREE NEW REGIONS WERE NUMBERED TODAY 4498 (N02W13), 4499 (S18E22) AND 4500 (S13E72). REGIONS 4498 AND 4499 ARE SIMPLE GROUPS WHILE REGION 4500 APPEARS BRIGHT IN H ALPHA AND IS A LARGE C TYPE GROUP WHICH THE OBSERVATORIES HAVE SAID LOOKS LIKE MORE TO COME. AT NE20 A SMALL AREA OF PLAGE IS ALSO VISIBLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT A LOW LEVEL DURING THIS FORECAST PERIOD. REGION 4492 MAY PRODUCE A LARGE EVENT IF RAPID CHANGE IN THE REGION OCCURS. REGION 4500 APPEARS TO BE LARGE HOWEVER ITS COMPLEXITY IS UNKNOWN DUE TO LIMB PROXIMITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 25/2100Z TO 26/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED TO ACTIVE DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED UNTIL 28 MAY WHEN THE FIELD IS EXPECTED TO REACH ACTIVE TO MINOR STORM CONDITIONS DUE TO THE EFFECTS OF THE FILAMENT WHICH DISAPPEARED TODAY.

III. EVENT PROBABILITIES 27 MAY-29 MAY

CLASS M 30/20/10

CLASS X 05/01/01

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 MAY 118

PREDICTED 27 MAY-29 MAY 122/122/115

90 DAY MEAN 26 MAY 128

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 MAY 013/020

ESTIMATED AFR/AP 26 MAY 015/025

PREDICTED AFR/AP 27 MAY-29 MAY 010/020-010/015-020/040

SOLTERWARN

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