

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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