

FUS 3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 126

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 06 MAY 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/2100 TO 06/2100Z: SOLAR ACTIVITY IS LOW. EVEN THOUGH EXPECTATIONS REMAIN POSITIVE, THE ARRIVAL OF OLD 4148, NOW 4171 (S28E71), HAS BEEN LESS THAN EVENTFUL. ITS SURGING ON THE LIMB HAS NOT TRANSLATED INTO FLARES ON THE DISK AS YET. THE SPOT IS STILL TOO NEAR THE LIMB FOR ACCURATE ANALYSIS AND THE SURGING THAT CONTINUES IN THE TRAILER IS BELIEVED TO BE MASKING SIGNIFICANT SEGMENTS OF THIS REGION. SUBFLARE ACTIVITY FROM REGION 4165 (S11W22) CONTINUES WHILE LITTLE ELSE ON THE DISK HAS CHANGED. HOWEVER, REGION 4168 (S15W06) DOES APPEAR MORE ORGANIZED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD INCREASE SLIGHTLY AS 4171 ROTATES FURTHER ONTO THE DISK.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 05/2100Z TO 06/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY ACTIVE DURING THE PAST 24 HOURS. CONDITIONS BRIEFLY REACHED MINOR STORM LEVELS BETWEEN 060300Z AND 0600Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: UNSETTLED TO ACTIVE CONDITIONS SHOULD CONTINUE UNTIL 8 MAY WHEN MINOR STORM CONDITIONS ARE EXPECTED. CORONAL HOLE ACTIVITY FOLLOWING THIS FILAMENT-INDUCED STORM SHOULD KEEP THE FIELD ACTIVE FOR SEVERAL MORE DAYS.

III. EVENT PROBABILITIES 07 MAY-09 MAY

CLASS M 60/70/70

CLASS X 01/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 MAY 129

PREDICTED 07 MAY-09 MAY 131/133/138

90 DAY MEAN 06 MAY 119

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 MAY 020/023

ESTIMATED AFR/AP 06 MAY 016/020

PREDICTED AFR/AP 07 MAY-09 MAY 012/015-040/045-020/040

SOLTERWARN

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