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HFUS 1 BOU 141300

ROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 226A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 14 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
13/1200Z TO 14/1200Z: SOLAR ACTIVITY BECAME MODERATE LATE ON 13
AUGUST WHEN REGION 3837 (N10W61) PRODUCED THE FIRST OF 4 CLASS
M EVENTS; M1/SB 132304Z (MAX), M1/1B 140245Z (MAX), M2/1B
140404Z (MAX) AND M4/1B 140509Z (MAX). THE M4 EVENT HAD AN
ASSOCIATED 10 CM BURST OF 280 FLUX UNITS. REGION 3837 IS NO
LONGER DECAYING ALTHOUGH THE GRADIENTS APPEAR MORE RELAXED.
OCCASIONAL SUBFLARE ACTIVITY IS ALSO BEING OBSERVED IN REGIONS
3839 (N12W46), 3843 (S07W17), 3856 (S13E17) AND 3858 (S06E77).
HOWEVER, NONE OF THESE REGIONS HAVE SHOWN ANY SUSTAINED GROWTH
TRENDS. REGION 3858 IS THE SMALL NEW REGION. THE LIMBS ARE
QUIET.

B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW TO MODERATE. REGION 3837 IS THE MOST LIKELY SOURCE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TO ACTIVE. GENERALLY UNSETTLED CONDITIONS ARE
EXPECTED FOR THE NEXT 3 DAYS.

III. EVENT PROBABILITIES 15 AUG-17 AUG

CLASS M 50/40/35

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 AUG 181

ESTIMATED 14 AUG 170

PREDICTED 15 AUG-17 AUG 160/150/145

90 DAY MEAN 13 AUG 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR 12 AUG 016 AP 13 AUG 015

ESTIMATED AFR 13 AUG 015 AFR/AP 14 AUG 010/015

PREDICTED AFR/AP 15 AUG-17 AUG 012/020-012/020-010/020

SOLTERWAR N

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HFUS 3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 226B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/1200Z TO 14/2100Z: SOLAR ACTIVITY DURING THE PAST NINE HOURS HAS BEEN LOW. NO SIGNIFICANT SOLAR FLARES OR MICROWAVE BURSTS WERE REPORTED DURING THE PERIOD. WHILE THE REGIONS ON THE WESTERN HALF OF THE SUN HAVE REMAINED STABLE WITH A HINT OF SLOW DECAY NEW GROWTH HAS APPEARED EAST OF THE CENTRAL MERIDIAN. DURING THE DAY THREE NEW SMALL REGIONS HAVE APPEARED: 3858 (S05E65) 3859 (N16E27) AND 3860 (N14E46). ALL OF THE NEW REGIONS ARE CURRENTLY FAIRLY SIMPLE BUT GROWTH IS APPARENT IN EACH. ADDITIONALLY AN ARCH FILAMENT SYSTEM WAS REPORTED IN THE PLAGE AREA NEAR N09E01 SUGGESTING THE EMERGENCE OF YET ANOTHER REGION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT LOW TO MODERATE LEVELS. THE COMPLEX FORMED BY REGIONS 3837 (N10W68) AND 3839 (N12W52) IS SUFFICIENTLY LARGE ENOUGH TO CONTINUE PRODUCING SPORADIC M-CLASS XRAY EVENTS AS IT CONTINUES TO DECAY. REGION 3856 (S12E08) SHOULD BEGIN PRODUCING M-CLASS FLARES VERY SHORTLY IF ITS RAPID GROWTH SINCE YESTERDAY CONTINUES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED DURING THE DAY. SIMILAR CONDITIONS ARE EXPECTED OVER THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 15 AUG-17 AUG

CLASS M 50/40/35

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 AUG 172

PREDICTED 15 AUG-17 AUG 160/150/145

90 DAY MEAN 14 AUG 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 AUG 012/015

ESTIMATED AFR/AP 14 AUG 012/015

PREDICTED AFR/AP 15 AUG-17 AUG 012/020-012/020-010/020

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