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HFXS 1 BOU 061300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 037A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 06 FEB 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/1200Z TO 06/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. AN UNASSOCIATED M1 EVENT OCCURRED AT 05/1238Z. A M1/1B FLARE FROM REGION 3594(S09E53) OCCURRED AT 06/1104Z. THIS REGION IS NOW THE DOMINANT STRUCTURE WITH A LARGE F-TYPE SUNSPOT GROUP. REGION 3576(S13W66) CONTINUES TO DECAY. REGION 3595(S04W35) CONTINUES A SLOW GROWTH. REGIONS 3596(N21E12), 3597(S13E70), AND 3598(N02E71) HAVE BEEN ADDED AND ARE SIMPLE IN STRUCTURE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE. ENERGETIC EVENTS WILL BE AT A LESSER PACE THEN IT HAS BEEN THE PAST FEW DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. BOULDER HAD A K=6 BETWEEN 06-09Z WITH A STRONG SUBSTORM. THE FIELD RESPONSE IS EXPECTED TO DIMINISH WITH MODERATELY UNSETTLED TO ACTIVE CONDITIONS PREVAILING.

III. EVENT PROBABILITIES 07 FEB-09 FEB

CLASS M 90/80/80

CLASS X 20/20/20

PROTON 20/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 FEB 252

ESTIMATED 06 FEB 245

PREDICTED 07 FEB-09 FEB 235/225/210

90 DAY MEAN 05 FEB 199

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 FEB 038 AP 05 FEB 030

ESTIMATED AFR 05 FEB 027 AFR/AP 06 FEB 020/030

PREDICTED AFR/AP 07 FEB-09 FEB 012/015-012/015-010/012

SOLTERWARN

BT

HXUS BOU 061300

PREDM 09007 08008 08009

PREDX 02007 02008 02009

PREDP 02007 01008 01009

PCAFT 00207

TENCM 23507 22508 21009

AFRED 01207 01208 01009

AFAPF 01507 01508 01209

KKK 23343 32233 34332

DT

NNNNZCVZDZEZGVZLVZOUU

KBOU

HFUS 3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 03.7B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 6 FEB 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

06/1200Z TO 06/2100Z:

SOLAR ACTIVITY HAS BEEN MODERATE. CLOUDS AND WEATHER HAVE HAMPERED OBS AT SEVERAL OBSERVATORIES BUT LIMITED OBSERVATIONS INDICATE THAT 3594 (S09E48) HAS BECOME QUITE ACTIVE.

CLASS M1 EVENTS AT 1534Z (MAX), 1734Z (MAX) AND 1759Z (MAX)

WERE PRODUCED BY 3594 AND THE REGION REMAINS BRIGHT AND FLUCTUATING. THE SPOT GROUP IS THE DOMINANT FEATURE ON THE DISK, THE LARGER UMBRAE ARE VERY DARK AND THE ASYMMETRY OF THE PENUMBRA IS VERY PRONOUNCED. AN M6/2B IN REGION 3576 (S14W75) IS IN PROGRESS AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD BE MODERATE TO HIGH BASED ON REGIONS 3576 AND 3594.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD EXPERIENCED PERIODS OF MINOR TO MAJOR STORM CONDITIONS DURING THE PAST 24 HOURS. THE FIELD IS CURRENTLY UNSETTLED TO ACTIVE AND NO CHANGE IS EXPECTED.

III. EVENT PROBABILITIES: 07 FEB - 09 FEB

CLASS M 90/80/80

CLASS X 20/20/20

PROTON 20/10/10

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 06 FEB 252

PREDICTED 07-09 FEB 240/227/223

90 DAY MEAN 06 FEB 199

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 FEB 25/30

ESTIMATED AFR/AP 06 FEB 25/30

PREDICTED AFR/AP 07-09 FEB 12/15 12/15 10/12

SOLIERWARN

BT