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HFUS 1 BOU 311300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 365A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 31 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/1200Z TO 31/1200Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 3522(N20W64) HAS BEEN GROWING RAPIDLY IN RECENT HOURS, BUT REMAINS A SMALL SIMPLE GROUP. REMAINING REGIONS ARE STABLE. SIGNIFICANT ACTIVITY FOR THE PERIOD WAS LIMITED TO A C3/1N FLARE IN REGION 3533(N05E33), MAXIMUM AT 30/2054, AND A C5/SB FLARE IN REGION 3522(N20W64), MAXIMUM AT 30/2224.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW FOR THE FORECAST PERIOD. NO INCREASE IN ACTIVITY MAY BE EXPECTED UNTIL EITHER SIGNIFICANT REGION DEVELOPMENT OCCURS, OR REGIONS WITH MAJOR FLARE POTENTIAL ROTATE ONTO THE DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS RETURNED TO NEAR MINOR STORM LEVELS FOLLOWING A BRIEF PERIOD AT UNSETTLED LEVELS. THIS ENHANCEMENT IN ACTIVITY IS EXPECTED TO BE BRIEF. THE GEOMAGNETIC FIELD SHOULD BE AT MOSTLY UNSETTLED LEVELS FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 01 JAN-03 JAN

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 DEC 192

ESTIMATED 31 DEC 197

PREDICTED 01 JAN-03 JAN 202/203/205

90 DAY MEAN 30 DEC 214

V. GEOMAGNETIC A INDICES

OBSERVED AFR 29 DEC 024 AP 30 DEC 026

ESTIMATED AFR 30 DEC 023 AFR/AP 31 DEC 020/015

PREDICTED AFR/AP 01 JAN-03 JAN 012/009-010/009-008/009

SOLTERWARN

BT

HXUS BOU 311300

PREDM 02001 02002 02003

PREDX 00101 00102 00103

PREDP 00101 00102 00103

PCAFT 00101

TENCM 20201 20302 20503

AFRED 0101 01002 00803

AFAPF 00901 00902 00903

KKK 32233 32223 33322

BT

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HFUS 3 BOU 312200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 365B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 31 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/1200Z TO 31/2100Z: SOLAR ACTIVITY HAS BEEN LOW. NO SIGNIFICANT ACTIVITY OR CHANGES HAVE BEEN OBSERVED. TWO NEW REGIONS ROTATED ONTO THE DISK, REGION 3534 (N10E57) AND REGION 3535 (S45E75). BOTH ARE SMALL AND STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. NONE OF THE REGIONS ON THE DISK APPEAR CAPABLE OF MAJOR FLARES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED SINCE 31/1200Z. UNSETTLED CONDITIONS ARE EXPECTED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 01 JAN-03 JAN

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 DEC 189

PREDICTED 01 JAN-03 JAN 193/195/195

90 DAY MEAN 31 DEC 214

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 DEC 027/026

ESTIMATED AFR/AP 31 DEC 020/015

PREDICTED AFR/AP 01 JAN-03 JAN 012/009-010/009-008/009

SOLTERWARN

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