

HFUS 1 BOU 181300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 352A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 18 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/1200Z TO 18/1200Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY SUBFLARES BEING OBSERVED. THE ONLY POTENTIALLY ACTIVE REGIONS ARE AT OR APPROACHING THE WEST LIMB QUIETLY. OTHER REGIONS ON THE DISK APPEAR CAPABLE OF PRODUCING ONLY INFREQUENT SUBFLARE ACTIVITY. A NEW REGION IS ROTATING OVER THE EAST LIMB AT N11E83. THIS REGION CONSISTS OF AN H CLASS SPOT AND MODERATE INTENSITY PLAGE INDICATING IT IS NOT A SIGNIFICANT REGION.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW DURING THE MAJORITY OF THE FORECAST PERIOD. NO PREVIOUSLY ACTIVE REGIONS ARE EXPECTED TO RETURN TO THE EAST LIMB UNTIL NEAR 21 DECEMBER.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TRENDING TOWARD ACTIVE AT THE END OF THE REPORTING PERIOD. THIS ACTIVITY IS EXPECTED TO BE TRANSIENT AND UNSETTLED CONDITIONS ARE FORECAST FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 19 DEC-21 DEC

CLASS M 20/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 DEC 149

ESTIMATED 18 DEC 144

PREDICTED 19 DEC-21 DEC 140/138/142

90 DAY MEAN 17 DEC 219

V. GEOMAGNETIC A INDICES

OBSERVED AFR 16 DEC 005 AP 17 DEC 005

ESTIMATED AFR 17 DEC 004 AFR/AP 18 DEC 016/015

PREDICTED AFR/AP 19 DEC-21 DEC 012/011-010/010-010/012

SOLTERWARN

BT

HXUS BOU 181300

PREDM 02019 01020 01021

PREDX 00119 00120 00121

PREDP 00119 00120 00121

PCAF 00119

TENCM 14019 13820 14221

AFRED 01219 01020 01021

AFAPF 01119 01020 01221

KKK 33323 22233 32322

BT

NCZ

NCU

KBOU

HFUS 3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 352B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 18 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/1200Z TO 18/2100Z: SOLAR ACTIVITY HAS BEEN LOW. A C1/SF FLARE OCCURRED IN REGION 3505 (S07W73) COINCIDENTLY WITH A SUBNORMAL FLARE IN REGION 3515 (S08E04) MAXIMA AT 1544Z AND 1548Z RESPECTIVELY. THREE NEW REGIONS WERE NUMBERED TODAY. REGION 3516 (N13E73) A D CLASS GROUP ROTATED OVER THE EAST LIMB. REGION 3517 (N17E32) AN A GROUP HAS APPEARED SINCE YESTERDAY. REGION 3518 (S11W13) GROWING RAPIDLY, HAS APPEARED IN RECENT HOURS. THIS REGION HAS AFS, EFR AND SHOWS 4 SMALL SPOTS AT PRESENT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY REMAINS LOW. REGIONS LIKELY TO CONTRIBUTE TO SIGNIFICANT ACTIVITY HAVE YET TO PUT IN AN APPEARANCE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE FOR MUCH OF THE U.T. DAY OF 18 DEC. CONDITIONS ARE TRENDING TOWARD QUIET LEVELS CURRENTLY. ACTIVITY IS EXPECTED TO REACH UNSETTLED TO QUIET LEVELS WITHIN A FEW HOURS AND REMAIN THERE FOR THE PERIOD.

III. EVENT PROBABILITIES 19 DEC-21 DEC

CLASS M 20/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 DEC 142

PREDICTED 19 DEC-21 DEC 140/138/142

90 DAY MEAN 18 DEC 218

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 DEC 006/005

ESTIMATED AFR/AP 18 DEC 016/013

PREDICTED AFR/AP 19 DEC-21 DEC 012/011-010/010-010/012

SOLTERWARN

BT

NNNNZV