

HFUS 1 BOU 171300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 351A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 17 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/1200Z TO 17/1200Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 3492 (N19W120) CONTINUED THIS PERIOD TO ILLUSTRATE THE NON-RADIAL ASPECT OF SOME SOLAR ACTIVITY WITH THE PRODUCTION OF A C7/LOOP PROMINENCE SYSTEM AT 16/1621UT. HOWEVER, DUE TO SEVERE LIMB OCCULTATION, LITTLE SHOULD CONTINUE TO BE OBSERVED FROM THE NORTHWEST LIMB. OTHER REGIONS ON THE DISK ARE SIMPLE AND/OR DECAYING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW. REGIONS CURRENTLY ON THE DISK DO NOT APPEAR CAPABLE OF PRODUCING TERRESTRIALLY EFFECTIVE FLARES. WITH THE EAST LIMB CURRENTLY VERY QUIET, THE LIKELIHOOD OF AN INCREASE IN ACTIVITY SEEMS SLIGHT BEFORE 19 DECEMBER.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET. QUIET TO SLIGHTLY UNSETTLED CONDITIONS SHOULD BE EXPERIENCED FOR THE NEXT THREE DAYS. THE GEOMAGNETIC FIELD HAS BEEN QUIETER THIS ROTATION THAN IT HAS FOR THE LAST SEVERAL MONTHS.

III. EVENT PROBABILITIES 18 DEC-20 DEC

CLASS M 20/20/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 DEC 163

ESTIMATED 17 DEC 150

PREDICTED 18 DEC-20 DEC 142/140/140

90 DAY MEAN 16 DEC 219

V. GEOMAGNETIC A INDICES

OBSERVED AFR 15 DEC 006 AP 16 DEC 005

ESTIMATED AFR 16 DEC 005 AFR/AP 17 DEC 005/005

PREDICTED AFR/AP 18 DEC-20 DEC 008/008-008/008-008/010

SOLTERWARN

BT

HFUS 3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 351B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 17 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
17/1200Z TO 17/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD.

NO EVENTS GREATER THAN C2 HAVE OCCURRED AND ONE SUB FLARE WAS
OBSERVED OPTICALLY IN REGION 3505(S08W58). A NEW REGION

3515(S08E17) IS GROWING, SHOWING EMERGING FLUX AND AFS. IT
REMAINS A RATHER SMALL C CLASS GROUP OF 40 MILLIONTHS AS YET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN LOW. NO REGIONS OF SIGNIFICANCE ARE PRESENT ON THE
DISK. THE EAST LIMB SHOWS NO EVIDENCE OF ARRIVAL OF
SIGNIFICANT REGIONS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET. QUIET CONDITIONS ARE EXPECTED TO PREVAIL FOR THE
FORECAST PERIOD WITH INTERVALS OF SLIGHTLY UNSETTLED CONDITIONS
POSSIBLE.

III. EVENT PROBABILITIES 18 DEC-20 DEC

CLASS M 20/20/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 DEC 149

PREDICTED 18 DEC-20 DEC 142/140/140

90 DAY MEAN 17 DEC 219

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 DEC 005/005

ESTIMATED AFR/AP 17 DEC 004/005

PREDICTED AFR/AP 18 DEC-20 DEC 006/008-006/008-008/010

SOLTERWARN

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HXUS BOU 172200

PREDM 002018 002019 01520

PREDX 000118 000119 000120

PREDP 000118 000119 000120

PCAF 000118

TENCM 14218 14019 14020

AFRED 000618 000619 000820

AFAPF 000818 000819 01020

BT