

HFUS 1 BOU 181400
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO.
SD F NUMBER 018A

JO INT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 18 JANUARY 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
17/1200UT TO 18/1200UT:

SOLAR ACTIVITY CONTINUES EXTREMELY LOW. ONLY TWO VERY
SMALL CLASS C X-RAY EVENTS HAVE BEEN RECORDED SINCE THIS
TIME YESTERDAY. THESE WERE NOT OBSERVED OPTICALLY AS
WEATHER HAS PREVENTED OBSERVATIONS IN PACIFIC AND ASIAN
LONGITUDES FOR THE PAST TWO DAYS. REGIONS 2894 (N 06E 04)
AND 2889 (S22E35) ARE THE ONLY SIGNIFICANT REGIONS ON THE
SOLAR DISK. REGION 2899 HAS MINOR AREAS OF MAGNETIC
COMPLEXITY AND A LARGE LEADER SPOT.

I B. SOLAR ACTIVITY FORECAST:

ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR ANOTHER TWO
DAYS. ACTIVE LONGITUDES ROTATING INTO VIEW AND MINOR GROWTH
WILL INCREASE THE FREQUENCY OF SMALL FLARES BY THE THIRD DAY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS UNSETTLED UNTIL LATE ON 17 JAN BUT
HAS BEEN VERY QUIET IN RECENT HOURS. QUIET CONDITIONS WILL
CONTINUE UNTIL 21 JANUARY WHEN THE EFFECTS OF A LARGE
CORONAL TRANSIENT WILL RAISE ACTIVITY NEAR ACTIVE LEVELS.

III. EVENT PROBABILITIES: 19-21 JANUARY

CLASS M 05/05/20

CLASS X 01/01/01

PROM 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 17 JAN 160

ESTIMATED 18 JAN 163

PREDICTED 19-21 JAN 165/168/173

90 DAY MEAN 17 JAN 210

V. GEOMAGNETIC INDICES

OBSERVED AFR 16 JAN 11 AP 17 JAN 07

ESTIMATED AFR 17 JAN 09 AFR/AP 18 JAN 05/08

PREDICTED AFR/AP 19-21 JAN 07/08 07/08 15/12

SOLTERWAR N

BT

HFUS 3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 018B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200UT 18 JANUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
18/1200UT TO 18/2200UT:

SOLAR ACTIVITY HAS BEEN VERY LOW DURING THE PERIOD.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN ESSENTIALLY QUIET. THE FIELD
IS EXPECTED TO BE GENERALLY QUIET THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 19-21 JANUARY 1981

CLASS M 05/05/20

CLASS X 01/01/01

PROMPT 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 18 JAN 166

PREDICTED 19-21 JAN 168/173/175

90 DAY MEAN 18 JAN 209

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 17 JAN 06/07

ESTIMATED AFR/AP 18 JAN 04/05

PREDICTED AFR/AP 19-21 JAN 07/08 07/08 15/12

SOLIERWARN

BT