

HFUS 1 BOU 011415

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 032A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 01 FEBRUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
31/1200UT TO 01/1200UT:

SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS.
OPTICAL ACTIVITY HAS BEEN ASSOCIATED WITH TWELVE OF THE
FIFTEEN C-CLASS X-RAY EVENTS REPORTED DURING THAT PERIOD
DESPITE GENERALLY POOR GROUND COVERAGE. EIGHT OF THOSE
TWELVE OPTICAL FLARES OCCURRED IN REGION 2911 (S13W03).
THESE WERE MAINLY SUBFLARES, BUT TWO WERE REPORTED A 1B
(MAXIMA AT 31/1934 AND 01/0001UT). REGION 2923 (N19E38)
HAS PRODUCED THREE SMALL C-CLASS SUBFLARES DURING THE PERIOD.
WHAT GROUND COVERAGE THERE IS REPORTS THAT THE THREE REGIONS
OF GREATEST POTENTIAL, AND INTEREST, (REGION 2911, REGION
2916 (N16E10) AND REGION 2918 (S12E19)) ARE ESSENTIALLY STABLE
AND APPARENTLY ON THE VERGE OF DISINTEGRATING.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO DECLINE STILL FURTHER OVER THE
NEXT THREE DAYS AS REGIONS 2911, 2916 AND 2918 SLOWLY FALL
APART. NO NEW FLARE PRODUCING PROSPECTS ARE IN SIGHT.

II. GEOPHYSICAL SUMMARY AND FORECAST:

GEOMAGNETIC ACTIVITY HAS BEEN UNSETTLED TO OCCASIONALLY ACTIVE
DURING THE PAST TWENTY FOUR HOURS. ACTIVITY SHOULD DECREASE
DURING THE UT DAY ON 01 FEBRUARY. ACTIVE CONDITIONS (PERHAPS
BRIEFLY TO MINOR STORM LEVELS) ARE EXPECTED ON 02-03 FEBRUARY.
THE COMBINED EFFECTS OF THE PARALLEL-RIBBON HYDER FLARE OF
31/0111 UT, AN ASSOCIATED FILAMENT DISAPPEARANCE AND A WELL
DEFINED CORONAL HOLE NEAR THE FLARE SITE LEAD TO THIS PREDICTION.

III. EVENT PROBABILITIES: 02 - 04 FEBRUARY 1981

CLASS M 35/35/30

CLASS X 05/05/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 31 JAN 215

ESTIMATED 01 FEB 216

PREDICTED 02-04 FEB 213/209/205

90 DAY MEAN 31 JAN 206

V. GEOMAGNETIC A INDICES

OBSERVED AFR 30 JAN 07 AP 31 JAN 18

ESTIMATED AFR 31 JAN 15 AFR/AP 01 FEB 13/14

PREDICTED AFR/AP 02/04 FEB 22/20 16/15 11/12

SOLTERWARN

BT

HFUS 3 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 032B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200UT 1 FEB 1981.

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
01/1200UT TO 01/2200UT:

ONLY C CLASS XRAY SUBCLASS OPTICAL EVENTS HAVE OCCURRED
SINCE 1200UT, REGION 2911 (S13W10) ACCOUNTING FOR ALL OF
THIS ACTIVITY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO DECLINE STILL FURTHER OVER THE
NEXT THREE DAYS AS REGIONS 2911, 2916 AND 2918 SLOWLY FALL
APART. NO NEW FLARE PRODUCING PROSPECTS ARE IN SIGHT.

II. GEOPHYSICAL SUMMARY AND FORECAST:

GEOMAGNETIC ACTIVITY HAS BEEN UNSETTLED TO OCCASIONALLY ACTIVE
DURING THE PAST TWENTY FOUR HOURS. ACTIVITY SHOULD DECREASE
DURING THE UT DAY ON 01 FEBRUARY. ACTIVE CONDITIONS (PERHAPS
BRIEFLY TO MINOR STORM LEVELS) ARE EXPECTED ON 02-03 FEBRUARY.
THE COMBINED EFFECTS OF THE PARALLEL-RIBBON HYDRO FLARE OF
31/0111UT, AN ASSOCIATED FILAMENT DISAPPEARANCE AND A WELL
DEFINED CORONAL HOLE NEAR THE FLARE SITE LEAD TO THIS PREDIC-
TION.

III. EVENT PROBABILITIES: 02-04 FEB

CLASS M 35/35/30

CLASS X 05/05/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 01 FEB 214

PREDICTED 02-04 FEB 213/209/205

90 DAY MEAN 01 FEB 206

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 JAN 15/18

ESTIMATED AFR/AP 01 FEB 13/14

PREDICTED AFR/AP 02/04 FEB 22/20 16/15 11/12

SOLTERWARN

BT