

HFUS 1 BOU 05 14 15

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 036A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1200UT 05 FEBRUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
04/1200UT TO 05/1200UT:

SOLAR ACTIVITY HAS BEEN LOW. WEATHER AND EQUIPMENT PROBLEMS
HAVE LIMITED OPTICAL OBSERVATIONS. THE LARGEST X-RAY BURST
WAS A C8 (UNCORRELATED) BEGINNING AT 04/235Z. THE LARGEST
FLARE, A C5/IN REPORTED BY CULGOORA, BEGAN AT 05/0125Z AND
OCCURRED IN REGION 2919 (S17W36). LIMITED REPORTS INDICATE
NO SIGNIFICANT SOLAR CHANGES. REGION 2930 (N11E68) WAS
ADDED YESTERDAY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAD BEEN UNSETTLED WITH A GRADUAL ONSET
TO MAGSTROM CONDITIONS AFTER 0900Z. THE STORM IS EXPECTED TO
ABATE DURING THE NEXT 6 HOURS. THE FIELD IS EXPECTED TO BE
UNSETTLED TO ACTIVE THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 06-08 FEB

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 04 FEB 203

ESTIMATED 05 FEB 203

PREDICTED 06-08 FEB 203/201/200

90 DAY MEAN 04 FEB 204

V. GEOMAGNETIC A INDICES

OBSERVED AFR 03 FEB 11 AP 04 FEB 06

ESTIMATED AFR 04 FEB 06 AFR/AP 05 FEB 15/18

PREDICTED AFR/AP 06-08 FEB 10/08 12/14 12/10

SOLIERWARN

BT

HFUS 3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SDF NUMBER 036B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200 UT 05 FEBRUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/1200UT
TO 05/2200UT : SOLAR ACTIVITY REMAINED LOW DURING THIS INTERVAL.
REGION 2911 (S13W66) PRODUCED TWO SUBFLARES WHILE THE REST OF THE
DISK WAS QUIET. FIVE ADDITIONAL REGIONS WERE NUMBERED TODAY;
2931 (S14W14), 2932 (N02E23), 2933 (N11E39), 2934 (N30E45) AND
2935 (N24E67). ONLY 2932 APPEARS TO OFFER POTENTIAL FOR SUSTAINED
GROWTH.

IB. SOLAR ACTIVITY FORECAST : SOLAR ACTIVITY IS EXPECTED TO REMAIN
AT LOW LEVELS.

II. GEOPHYSICAL SUMMARY AND FORECAST : THE GEOMAGNETIC FIELD
EXPERIENCED MAJOR STORM CONDITIONS BETWEEN 05/0900Z - 1200Z.
THE FIELD IS EXPECTED TO SHOW A GRADUAL RECOVERY DURING THE
NEXT 36 HOURS BUT WILL CONTINUE TO REFLECT THIS SHOCK WITH
K-VALUES OFTEN IN THE ACTIVE CATEGORY.

III. EVENT PROBABILITIES 06 FEBRUARY - 08 FEBRUARY

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 FEBRUARY 193

PREDICTED 06-08 FEBRUARY 187/181/176

90-DAY MEAN 05 FEBRUARY 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 FEBRUARY 06/06

ESTIMATED AFR/AP 05 FEBRUARY 21/20

PREDICTED AFR/AP 06-08 FEBRUARY 16/16 - 10/14 - 10/10

SOLTERWARN

BT