

HFUS 1 BOU 281300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 362A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 28 DEC 1982
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
27/1200Z TO 28/1200Z: SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST
EVENT WAS A C9/SB AT 2016Z FROM REGION 4033 (S13W27). THOUGH
GENERAL DECAY HAS OCCURRED IN THIS REGION, RESTRUCTURING HAS
EVOLVED A DELTA CONFIGURATION ON THE NE CORNER OF THE TRAILER
PENUMBRA. RESTRUCTURING IN REGION 4032 (N09W6) HAS CONTINUED
TO PRODUCE FLARES FROM THIS REGION. MORE SPOTS HAVE ROTATED
INTO VIEW WITH REGION 4041 (N05E76). PLAGE FLUCTUATIONS AND
BRIGHTENINGS ARE OCCURRING IN THIS REGION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW TO MODERATE. CURRENTLY, REGION 4033 IS THE REGION MOST
LIKELY TO PRODUCE AN OCCASIONAL ENERGETIC FLARE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETLED TO ACTIVE. GENERALLY UNSETLED CONDITIONS ARE
EXPECTED THROUGH THE FORECAST PERIOD. THE SATELLITE PROTON
FLUX WHICH BEGAN AT 27/0600Z HAS HAD SEVERAL RISES/FALLS;
ATTAINING A MAXIMUM FLUX OF 190 P/GM²/SEC/STER NEAR 27/1345Z.
CURRENT FLUX IS NEAR 55. THE CALCULATED PCA BEGAN AT 27/0900Z
AND REACHED A MAXIMUM ABSORPTION OF 4.6 DB AT 27/1400Z.

III. EVENT PROBABILITIES 29 DEC-31 DEC

CLASS M 75/60/50

CLASS X 10/05/01

PROTON 10/05/01

PCAF IN PROGRESS

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 DEC 172 -

ESTIMATED 28 DEC 170

PREDICTED 29 DEC-31 DEC 172/170/167

90 DAY MEAN 27 DEC 178

V. GEOMAGNETIC A INDICES

OBSERVED AFR 26 DEC 209 AP 27 DEC 314

ESTIMATED AFR 27 DEC 214 AFR/AP 28 DEC 012/020

PREDICTED AFR/AP 29 DEC-31 DEC 012/015-010/010-010/010

SOITFRWARN

BT

HFUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO.
SDF NUMBER 362B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 DEC 1982

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
28/1200Z TO 28/2100Z: SOLAR ACTIVITY WAS MODERATE DURING
THIS NINE HOUR PERIOD. AT 281551 U.T., REGION 4032 (N09W72)
PRODUCED AN M4/SN THAT CAUSED SHORTWAVE FADES TO 18 MHZ. REGION
4032 IS NEARING WEST LIME PASSAGE BUT MAY BE GROWING IN AREA AND
COMPLEXITY. REGION 4033 (S12W14) HAS BEEN RELATIVELY STABLE THIS
PERIOD. NO MAJOR STRUCTURAL CHANGES WERE REPORTED. REGION 4041
(N66E67) IS A "C" TYPE GROUP THAT APPEARS BASICALLY QUIET.

II. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE MODERATE WITH REGIONS
4032 AND 4033 BEING RESPONSIBLE.

III. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS UNSETLED TO ACTIVE DURING THE PERIOD.
UNSETLED CONDITIONS ARE LIKELY FOR THE COMING 24 HOURS.
THE 10 MEV PROTONS ARE HOVERING NEAR EVENT THRESHOLDS.

IV. EVENT PROBABILITIES: 29 DEC - 31 DEC

CLASS M 75/60/50

CLASS X 10/05/01

PROTON 10/05/01

PCAF IN PROGRESS

V. OTTAWA 10.7 FLUX

OBSERVED 28 DEC 162

PREDICTED 29-31 DEC 162/160/159

90 DAY MEAN 28 DEC 178

VI. GEOMAGNETIC A INDICES

OBSEVED AFR/AP 27 DEC 15/14

ESTIMATED AFR/AP 28 DEC 15/20

PREDICTED AFR/AP 29-31 DEC 12/15 10/10 10/10

SOLTERWARN

PT