

HFUS 1 ROU 301300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 364A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 30 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/1200Z TO 30/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 4033 (S13W35) PRODUCED A M7/2B FLARE AT 0139Z. MODERATE SHORT WAVE FADE AND DISCRETE FREQUENCY RADIO BURSTS ACCOMPANIED THIS FLARE. THE OPTICAL FLARE AGAIN OCCURRED IN THE VICINITY OF THE DELTA CONFIGURATION. REPORTS INDICATE THE GRADIENTS IN THE VICINITY OF THE DELTA MAY BE DIMINISHING. OTHER DISK REGIONS ARE SIMPLE IN STRUCTURE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE WITH AN OCCASIONAL ENERGETIC FLARE FROM REGION 4033. HOWEVER, A RAPID DISSIPATION OF THE DELTA GRADIENTS WILL CEASE THE ENERGETIC FLARE POTENTIAL FOR REGION 4033.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE. THE FIELD VARIATIONS ARE EXPECTED TO INCREASE THE LATTER HALF OF 31 DECEMBER AND 31 JANUARY TO MODERATELY ACTIVE LEVELS.

III. EVENT PROBABILITIES 31 DEC-32 JAN

CLASS M 75/60/50

CLASS X 10/05/01

PROTON 10/05/01

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 DEC 152

ESTIMATED 30 DEC 150

PREDICTED 31 DEC-02 JAN 145/140/135

90 DAY MEAN 29 DEC 177

V. GEOMAGNETIC A INDICES

OBSERVED AFR 29 DEC 015 AP 09 DFC 219

ESTIMATED AFR 29 DEC 015 AFR/AP 30 DEC 014/014

PREDICTED AFR/AP 31 DEC-02 JAN 012/020-013/020-015/013

SOLITERWARN

BT

HFUS 3 BOU 302200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 364B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 30 DEC 1982.

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
30/1200Z TO 30/2100Z: SOLAR ACTIVITY HAS BEEN LOW BUT REGION
4033 (S14W43) DID MANAGE A C8/1B FLARE AT 1924UT AND A C9/1B
AT 1841UT. THIS REGION CONTINUES TO FLUCTUATE IN BRIGHTNESS
AND A PARTIAL FILAMENT DISAPPEARANCE WAS NOTED. REGION 4040
(S20E29) PRODUCED TWO SMALL SUBFLARES WITHOUT XRAY OR RADIO
RESPONSES. A SMALL A TYPE GROUP FORMED NEAR S22W17 AND WAS
NUMBERED 4043. EMERGING FLUX WAS ALSO REPORTED AT N06E57 AND
S07E32.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
MAINTAIN ITS CURRENT LEVEL FOR ANOTHER 24 TO 48 HOURS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETLED. UNSETLED CONDITIONS SHOULD CONTINUE UNTIL 21
JANUARY WHEN ACTIVE CONDITIONS SHOULD COMMENCE. NOTE NOTE
NOTE-----THE FREDERICKSBURG A VALUE FOR 23 DEC IS NOT YET
AVAILABLE.-----

III. EVENT PROBABILITIES 31 DEC-32 JAN

CLASS M 75/60/50
CLASS X 10/05/01
PROTON 10/25/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	30 DEC	147
PREDICTED	31 DEC-32 JAN	140/135/130
90 DAY MEAN	30 DEC	176

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP	29 DEC	000/019
ESTIMATED AFR/AP	30 DEC	012/014
PREDICTED AFR/AP	31 DEC-02 JAN	012/024-013/024-015/010
SOLTERWARN		
BT		