

HFUS 1 BOU 231300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 357A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 23 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
22/1200Z TO 23/1200Z: SOLAR ACTIVITY HAS BEEN LOW. NO OPTICAL
DATA WERE RECEIVED TODAY. REGION 4033 (S14E50) IS VISIBLE AS A
MODERATE SIZE CLASS F GROUP WITH SOME MIXED POLARITIES. THE
WEST LIMB, INCLUDING REGIONS 4025 (S02W09) AND 4026 (S09W87),
HAS DISPLAYED ACTIVE SURGING WITH SOME SURGES EXTENDING FAR
INTO THE OUTER CORONA. HOWEVER, NO SIGNIFICANT X-RAY
ENHANCEMENTS HAVE BEEN OBSERVED WITH THESE WEST LIMB EJECTIONS.
A SMALL REGION APPEARS TO BE ROTATING OVER THE SOUTHEAST LIMB.
TWO FILAMENTS HAVE DISRUPTED - THE FIRST DISAPPEARED PRIOR TO
22/1700Z AND WAS LOCATED BETWEEN N15-23U01-32, THE SECOND FADED
NEAR 23/0000Z AND WAS LOCATED BETWEEN S04-10W07-12. THE LATTER
WAS PRECEDED BY A WEAK TYPE II AT 22/2316Z.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BECOME
MODERATE FOR THE FORECAST PERIOD. REGION 4033 APPEARS CAPABLE
OF ISOLATED CLASS M FIARES AND THERE IS A VERY SLIGHT
POSSIBILITY OF A CLASS X FLARE FROM THIS AREA. PREVIOUSLY
ACTIVE OR EMERGING LONGITUDES ARE DUE BACK TO THE VISIBLE DISK
OVER THE NEXT FIVE DAYS BUT POTENTIAL FLARE ACTIVITY FROM THESE
AREAS CANNOT BE CONFIDENTLY PREDICTED.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN ACTIVE FOR THE PAST 24 HOURS. THIS ACTIVITY HAS CONSISTED
OF STRONG SUBSTORMS INTERSPERSED THROUGH THE PERIOD. ACTIVE TO
NEAR MINOR STORM CONDITIONS SHOULD BE EXPERIENCED FOR THE NEXT
THREE DAYS IN RESPONSE TO RECENT FLARE ACTIVITY, A FAVORABLY
LOCATED CORONAL HOLE, AND/OR RECENT FILAMENT DISRUPTIONS. THE
MOST SEVERE DISTURBANCE SHOULD BE EXPERIENCED BETWEEN 23-25
DEC.

III. EVENT PROBABILITIES 24 DEC-25 DEC

CLASS M	30/60/50
CLASS X	05/05/35
PROTON	05/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	22 DEC	161
ESTIMATED	23 DEC	165
PREDICTED	24 DEC-26 DEC	168/175/130
90 DAY MEAN	22 DEC	179

V. GEOMAGNETIC A INDICES

OBSERVED AFR	21 DEC	026	AP 22 DEC	040
ESTIMATED AFR	22 DEC	030	AFR/AP 23 DEC	018/020
PREDICTED AFR/AP	24 DEC-26 DEC	020/022-025/025-030/025		

SOLTFWARN

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BT
HFUS 3 ROU 232200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 357B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 23 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
23/1200Z TO 23/2100Z: SOLAR ACTIVITY HAS BEEN LOW. ACTIVITY HAS
BEEN RESTRICTED TO SMALL C CLASS FLARES WITHOUT OPTICAL
ASSOCIATIONS. WEATHER CONDITIONS AT THE OBSERVATORIES HAVE
HAMPERED ALL ASPECTS OF OBSERVING AND THE RESULTING ANALYSIS.
TWO NEW REGIONS WERE NUMBERED TODAY. REGION 4235(N08W04) IS A B
CLASS GROUP OF ABOUT 10 MILLIONTHS APPEARING ON THE DISK IN
RECENT HOURS. REGION 4030(S14E75) IS AN A CLASS SPOT ARRIVING
IN PLACE OF OLD REGION 4005.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW TO
MODERATE WITH MOST ACTIVITY EXPECTED FROM REGION 4033(S15E54).
A MAJOR FLARE SHOULD BE POSSIBLE FROM THIS REGION.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN ACTIVE. ACTIVE TO INTERMITTENT MINOR STORM CONDITIONS ARE
EXPECTED FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 24 DEC-26 DEC

CLASS M 30/60/50

CLASS X 05/05/05

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 DEC 166

PREDICTED 24 DEC-26 DEC 168/175/180

90 DAY MEAN 23 DEC 179

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 DEC 030/040

ESTIMATED AFR/AP 23 DEC 023/020

PREDICTED AFR/AP 24 DEC-26 DEC 020/020-025/025-030/030

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