

HFUS 1 BOU 141300
 FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
 SDF NUMBER 348A
 JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
 ISSUED 1300Z 14 DEC 1982
 IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
 13/1200Z TO 14/1200Z: SOLAR ACTIVITY WAS MODERATE THIS PERIOD
 DUE TO A M1/1B EVENT FROM REGION 4026 (S11E33) AT 13/1952UT
 THIS EVENT PRODUCED MINOR RADIO, 60 FLUX UNITS AT 2695MHZ.
 REGIONS 4022 (N11W22) AND 4026 CONTINUE TO EXHIBIT LARGE SIZE
 AND COMPLEX MAGNETIC CONFIGURATIONS AND THEY BOTH CONTAIN
 DELTAS. BOTH REGIONS 4022 AND 4026 HAVE BEEN REPORTED AS LITTLE
 CHANGED THIS PERIOD WITH OTHER REGIONS OBSERVED TO HAVE
 SLIGHTLY DECAYED.
 IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
 CONTINUE AT MODERATE LEVELS DURING THE FORECAST PERIOD HOWEVER
 IF SLOW DECAY IN EITHER REGION 4022 OR 4026 OCCURS THEN THE
 PROBABILITY OF "M" CLASS EVENTS WILL DECREASE. RAPID CHANGE IN
 THE REGIONS MAY PRODUCE LARGE "M" CLASS OR AN ISOLATED "X"
 CLASS EVENT DURING THE FORECAST PERIOD.
 II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
 BEEN GENERALLY QUIET TO SLIGHTLY UNSETTLED DURING THIS PERIOD.
 THE HIGH LATITUDE SITES AGAIN HAD A SHORT PERIOD, 14/0000 TO
 14/0300UT, OF MINOR STORM LEVELS. THE FIELD IS EXPECTED TO
 CONTINUE AT UNSETTLED LEVELS UNTIL 17 DEC WHEN ACTIVE
 CONDITIONS ARE EXPECTED DUE TO A FILAMENT WHICH DISAPPEARED
 FROM REGION 4017 (S11W42) AROUND 13/1322UT THIS WAS ACCOMPANIED
 BY A C3/IF XRAY/OPTICAL EVENT. LIMITED MAGNETIC/OPTICAL DATA
 PREVENTS DETAILED ANALYSIS HOWEVER IF THE NETURAL LINE THROUGH
 THE REGION REFORMED IN THE ORIGINAL ORIENTATION THEN ONLY MINOR
 GEOMAGNETIC FIELD EFFECTS ARE EXPECTED.
 III. EVENT PROBABILITIES 15 DEC-17 DEC
 CLASS M 90/85/80
 CLASS X 30/25/20
 PROTON 20/25/20
 PCAF YELLOW
 IV. OTTAWA 10.7 CM FLUX
 OBSERVED 13 DEC 247
 ESTIMATED 14 DEC 240
 PREDICTED 15 DEC-17 DEC 230/225/215
 90 DAY MEAN 13 DEC 174
 V. GEOMAGNETIC A INDICES
 OBSERVED AFR 12 DEC 014 AP 13 DEC 007
 ESTIMATED AFR 13 DEC 007 AFR/AP 14 DEC 007/015
 PREDICTED AFR/AP 15 DEC-17 DEC 010/015-010/010-017/020
 SOLTERWARN
 BT

HFUS 3 BOU 142200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 348B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 14 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
14/1200Z TO 14/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH FREQUENT
CLASS C FLARES BEING OBSERVED. REGION 4026 (S11E26) PRODUCED A
C7/SB AT 14/2035Z WITH MINOR CM BURSTS. THIS REGION HAS
REMAINED STABLE AND RETAINS ITS TWO DELTA CONFIGURATIONS. AN
ARCP FILAMENT SYSTEM HAS BEEN NOTED RECENTLY NEAR THE TRAILER
DELTA IN 4026. REGION 4022 (N11W13) HAS ALSO REMAINED STABLE IN
AREA, RETAINS ITS DELTA, BUT MAY BE LOSING SOME OF ITS INTERIOR
SPOTS. REGION 4021 (S16W28) APPEARS TO BE BEGINNING A DECAY
PHASE. A SMALL ASYMMETRIC CLASS H SPOT ROTATED ONTO THE DISK
AND WAS NUMBERED 4029 (S04E82).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE GENERALLY
MODERATE FOR THE FORECAST PERIOD ALTHOUGH WITH DECAY AND
SIMPLIFICATION NOTED IN SEVERAL REGIONS, THE FREQUENCY OF THAT
LEVEL OF ACTIVITY SHOULD BEGIN TO DECREASE. MAJOR FLARES FROM
CURRENT REGIONS REMAIN POSSIBLE BUT THEIR LIKELIHOOD IS ALSO
DECREASING. NO SIGNIFICANT ACTIVE REGIONS ARE EXPECTED TO
RETURN DURING THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS
QUIET FOR THE BULK OF THE PERIOD, BECOMING UNSETTLED AT ISSUE
TIME. UNSETTLED CONDITIONS ARE FORECAST TO CONTINUE UNTIL 17
DEC WHEN THE FIELD IS EXPECTED TO BECOME ACTIVE.

III. EVENT PROBABILITIES 15 DEC-17 DEC

CLASS M 90/85/80

CLASS X 30/25/20

PROTON 20/20/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 DEC 243

PREDICTED 15 DEC-17 DEC 235/230/220

90 DAY MEAN 14 DEC 175

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 DEC 306/007

ESTIMATED AFR/AP 14 DEC 006/010

PREDICTED AFR/AP 15 DEC-17 DEC 010/015-010/010-017/020

SOLTERWARN

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