

END OF BUFFER

HFUS 1 BOU 071300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 341A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 07 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200Z TO 07/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. TWO CLASS M XRAY EVENTS OCCURRED THIS PERIOD BUT NEITHER WAS CORRELATED WITH OPTICAL FLARES. THE LARGEST WAS AN M2 MAXING AT 2117Z. THE LARGEST OF NUMEROUS C CLASS EVENTS WAS A C8/1B FROM REGION 4012 (N13W04) WITH XRAY MAXIMUM AT 2037Z. THIS REGION HAS DEAYED RAPIDLY IN WHITE LIGHT AREA AND NOW HAS ONLY ONE SPOT. 1B OPTICAL FLARES ALSO OCCURRED IN REGIONS 4019 (S23W34) AND 4021 (S17E74). REGIONS 4019 AND 4017 (S09E55) HAVE GROWN RAPIDLY IN WHITE LIGHT AREA. REGION 4021 ALSO HAD WHITE LIGHT GROWTH BUT THIS MAY BE PARTLY DUE TO ITS ROTATING AWAY FROM THE LIMB. REGIONS 4007 (S15W76) AND 4014 (N08E05) HAVE BETA-GAMMA-DELTA MAGNETIC CONFIGURATIONS. REGION 4014 ALSO HAS A TIGHT MAGNETIC GRADIENT AND HAS GROWN IN WHITE LIGHT AREA. ARCHED FILAMENT SYSTEMS WERE OBSERVED IN REGIONS 4014 4017 4018 (S09W29) 4019 AND 4021. AN ACTIVE SURGE REGION IS IN PROGRESS AT NE 13 NEAR WHERE OLD REGION 4003 IS RETURNING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS QUIET UNTIL 06Z WHEN IT BECAME UNSETLED. AN SSC OCCURRED AT 0330Z. THIS AND THE UNSETLED CONDITIONS APPEAR TO BE RELATED TO A CORONAL TRANSIENT THAT OCCURRED ON 3 DECEMBER. ACTIVE CONDITIONS ARE EXPECTED TO OCCUR LATER TODAY AND CONTINUE THROUGH THE 8TH. UNSETLED CONDITIONS SHOULD RETURN ON THE 9TH AND CONTINUE THROUGH THE FORECAST.

III. EVENT PROBABILITIES 08 DEC-10 DEC

CLASS M 95/95/95

CLASS X 10/05/05

PROTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 DEC 217

ESTIMATED 07 DEC 213

PREDICTED 08 DEC-10 DEC 209/207/204

90 DAY MEAN 06 DEC 166

V. GEOMAGNETIC A INDICES

OBSERVED AFR 05 DEC 009 AP 06 DEC 005

ESTIMATED AFR 06 DEC 003 AFR/AP 07 DEC 012/015

PREDICTED AFR/AP 08 DEC-10 DEC 015/015-010/010-010/010

SOLTERWARN

BT

HFUS 3 BOU 072200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 341B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 07 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/1200Z TO 07/2100Z: SOLAR ACTIVITY HAS CONTINUED MODERATE THIS PERIOD WITH THREE M-CLASS EVENTS BEING OBSERVED. REGION 4014 (N07W07) PRODUCED A M1/1B EVENT AT 1508UT. A M1/SB FROM REGION 4019 (S23W47) AT 1745UT AND A M1/SN FROM 4008 (S15W84) AT 1805UT. REGION 4007 AND 4014 CONTINUE TO BE LARGE COMPLEX, BETA GAMMA DELTA, "E" TYPE GROUPS HOWEVER THEY APPEAR TO HAVE STABILIZED THIS PERIOD. NEW REGION TODAY 4022 (N11E79) IS A LARGE, 1200 MILLIONTHS, "E" TYPE GROUP. LIMB PROXIMITY PREVENTS DETAILED MAGNETIC ANALYSIS AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE WITH AN ISOLATED X-CLASS EVENT POSSIBLE FROM REGIONS 4014 OR 4022.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS ACTIVE WITH PERIODS AT MINOR STORM LEVELS DURING THIS PERIOD. THE FIELD IS EXPECTED TO REMAIN ACTIVE WITH A SHORT PERIOD OF MINOR STORM CONDITIONS DURING THE NEXT 18 HOURS WITH UNSETTLED CONDITIONS FOR THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 08 DEC-10 DEC

CLASS M 95/95/95

CLASS X 10/05/15

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 DEC 252

PREDICTED 08 DEC-10 DEC 240/230/235

90 DAY MEAN 07 DEC 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 DEC 003/005

ESTIMATED AFR/AP 07 DEC 023/025

PREDICTED AFR/AP 08 DEC-10 DEC 015/010-010/010-010/010

SOLTERWARN

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