

HFUS 3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 013

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 13 JAN 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100 TO 13/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. REGION 4393 (S16E32) REMAINS THE MOST IMPRESSIVE SPOT GROUP ON THE DISK WITH AN E TYPE SPOT GROUP CLASSIFICATION AND A BETA GAMMA MAGNETIC CONFIGURATION. THIS REGION HAS PRODUCED SEVERAL C LEVEL X-RAY FLARES (THE LARGEST WAS A C6) AND NUMEROUS OPTICAL SUBFLARES. REGION 4392 (S14E18) REMAINS THE SECOND MOST IMPRESSIVE GROUP ON THE DISK WITH A C TYPE SPOT CLASSIFICATION. THIS REGION HAS ONLY PRODUCED OPTICAL SUBFLARES SO FAR THIS PERIOD. NO NEW REGIONS WERE NUMBERED THIS PERIOD AND THE REMAINING PORTIONS OF THE VISIBLE DISK REMAIN STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW TO MODERATE THROUGHOUT THE FORECAST PERIOD. REGION 4393 APPEARS TO BE THE ONLY REGION CAPABLE OF MODERATE LEVEL ACTIVITY AT THIS TIME.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET INCREASING TO ACTIVE THIS PERIOD. THE INCREASE IN THE LEVEL OF ACTIVITY IS THOUGHT TO BE DUE TO THE EARLY ARRIVAL OF EJECTA PRODUCED BY A DISAPPEARING SOLAR FILAMENT WHICH OCCURRED ON THE 9TH OF JANUARY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC SHOULD REMAIN AT ACTIVE LEVELS THROUGH THE FIRST TWELVE HOURS OF THE FORECAST PERIOD AND THEN SUBSIDE TO UNSETTLED LEVELS THE REMAINDER OF THE PERIOD.

III. EVENT PROBABILITIES 14 JAN-16 JAN

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 JAN 106

PREDICTED 14 JAN-16 JAN 105/104/103

90 DAY MEAN 13 JAN 094

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 JAN 005/008

ESTIMATED AFR/AP 13 JAN 013/010

PREDICTED AFR/AP 14 JAN-16 JAN 015/015-010/010-007/010

SOLTERWARN

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