

HFUS 3 BOU 152200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 015

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 JAN 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100 TO 15/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. REGIONS 4392 (S13W09) AND 4393 (S16E06) CONTINUE TO BE THE MOST INTERESTING SPOT GROUPS ON THE DISK. BOTH HAVE DECAYED SLIGHTLY IN AREA. THE LARGEST X-RAY FLARE OBSERVED THIS PERIOD WAS A B4, WHILE OPTICALLY THE ACTIVITY HAS BEEN LIMITED TO SUBFLARES. NO NEW REGIONS WERE NUMBERED THIS PERIOD AND THE REMAINING DISK APPEARS STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW TO MODERATE THIS PERIOD. ANY MODERATE LEVEL ACTIVITY WOULD BE THE RESULT OF DYNAMIC CHANGES IN EITHER REGION 4392, REGION 4393 OR AN INTERACTION BETWEEN THESE TWO REGIONS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET AT ALL LATITUDES THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE QUIET AT MIDLATITUDES AND UNSETTLED AT HIGH LATITUDES FOR THE FIRST TWO DAYS OF THE FORECAST PERIOD. THE LAST DAY OF THE PERIOD MIDLATITUDES SHOULD OBSERVE UNSETTLED CONDITIONS AND THE HIGH LATITUDES SHOULD BE AT ACTIVE GEOMAGNETIC LEVELS.

III. EVENT PROBABILITIES 16 JAN-18 JAN

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 JAN 101

PREDICTED 16 JAN-18 JAN 100/099/100

90 DAY MEAN 15 JAN 094

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 JAN 007/007

ESTIMATED AFR/AP 15 JAN 009/010

PREDICTED AFR/AP 16 JAN-18 JAN 005/010-005/010-010/015

SOLTERWARN

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