

HFUS 3 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 060

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 29 FEB 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/2100 TO 29/2100Z: SOLAR ACTIVITY WAS GENERALLY LOW DURING THE PAST 24 HOURS. REGIONS 4423 (S12W18) AND 4427 (S16E50) ARE PRODUCING OCCASIONAL CLASS C FLARES WHILE REGIONS 4421 (N15W82) AND 4426 (S12W41) HAVE PRODUCED SUBFLARES WITH NO ASSOCIATED XRAY EMISSIONS. REGION 4423 REMAINS A MODERATE SIZE D GROUP WITH A SIMPLE BETA MAGNETIC STRUCTURE. REGION 4427 HAS APPARENTLY CLEARED THE EAST LIMB AND REVEALED ITSELF AS A B TYPE GROUP OF SEVERAL DEGREES EXTENT. REGION 4426 IS A SLOW GROWING BI-POLAR GROUP THAT IS INCREASING IN SPOT NUMBER AND TIGHTENING ITS GRADIENTS. THE OTHER DISK FEATURES HAVE NOT CHANGED MUCH.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE FOR THE NEXT 24 HOURS. REGION 4421 COULD STILL PRODUCE M ACTIVITY BEFORE CROSSING THE WEST LIMB.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 28/2100Z TO 29/2100Z: THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED EARLY IN THE DAY AND THEN A BRIEF PULSE OF STORM CONDITIONS WAS OBSERVED BETWEEN 1500Z AND 1800Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT THREE DAYS. THESE CONDITIONS ARE REFLECTING THE RECURRENCE PATTERN. A FILAMENT IS REPORTEDLY LIFTING OFF SLOWLY IN THE SOUTHWEST QUADRANT AND WILL BE MONITORED FOR POSSIBLE CONSEQUENCES.

III. EVENT PROBABILITIES 01 MAR-03 MAR

~~CLASS M 50/40/40~~

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 FEB 151

PREDICTED 01 MAR-03 MAR 147/143/140

90 DAY MEAN 29 FEB 117

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 FEB 008/012

ESTIMATED AFR/AP 29 FEB 013/020

PREDICTED AFR/AP 01 MAR-03 MAR 015/015-015/020-012/015

SOLTERWARN

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