

HFUS 3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 036

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 05 FEB 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/2100 TO 05/2100Z: SOLAR ACTIVITY HAS BEEN LOW TO MODERATE THE PAST 24 HOURS. THE LAST OBSERVED M EVENT WAS AT 2148 UT (MAX) ON 4 FEB FROM DEPARTING REGION 4399. THE REMAINING REGIONS ARE VIRTUALLY QUIET. REGION 4410 (S09E49) IS NOW THE FOCUS OF ATTENTION. ITS AN E TYPE SPOT WITH A LARGE LEADER PENUMBRA AND A GROWING TRAILER PENUMBRA. THE OTHER SIX REGIONS ON THE DISK ARE LESS THAN 100 MILLIONTHS IN INDIVIDUAL AREA AND ARE SHOWING LITTLE ACTIVITY OTHER THAN OCCASIONAL PLAGE FLUCTUATIONS. THREE OF THESE REGIONS, 4412 (S17E18), 4413 (S13E71) AND 4414 (S08E70) WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE AT A LOW LEVEL FOR THE NEXT 24 HOURS. ONLY REGION 4410 APPEARS TO HAVE ANY POTENTIAL FOR PRODUCING M LEVEL ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 04/2100Z TO 05/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED THE PAST 24 HOURS WITH A BRIEF PERIOD OF STORM CONDITIONS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE WITH STORM CONDITIONS POSSIBLE DURING NIGHTTIME HOURS FOR THE NEXT TWO DAYS. A LARGE CORONAL HOLE ALONG WITH FILAMENT AND FLARE ACTIVITY OF RECENT DAYS SHOULD CAUSE THIS DISTURBANCE.

III. EVENT PROBABILITIES 06 FEB-08 FEB

CLASS M 20/20/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 FEB 118

PREDICTED 06 FEB-08 FEB 113/109/106

90 DAY MEAN 05 FEB 103

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 FEB 038/054

ESTIMATED AFR/AP 05 FEB 015/018

PREDICTED AFR/AP 06 FEB-08 FEB 025/025-020/020-014/015

SOLTERWARN

BT