

HFUS 1 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 231

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 18 AUGUST 1980

IA. SOLAR ACTIVITY HAS REMAINED LOW DURING THE PAST 24 HOURS. ONLY SEVEN C-CLASS SUBFLARES HAVE BEEN OBSERVED DURING THAT PERIOD; THREE OF WHICH OCCURRED IN REGION 2628 (N 10E 08). THIS REGION IS THE ONLY ONE THAT HAS SHOWN NOTICEABLE GROWTH DURING THE PERIOD. THE OTHER TWELVE REGIONS ON THE VISIBLE DISK ARE MOSTLY STABLE OR DECLINING. REGION 2629 (N 18E 26) REMAINS THE MOST COMPLEX IN WHITE LIGHT BUT HAS DULLED IN H-ALPHA AND HAS NOT BEEN FLARING. DURING THE WESTERN HEMISPHERE NIGHT TIME HOURS, AN ENORMOUS HIGH PROMINENCE WHICH STRETCHED FROM SE20 TO SE40 DISAPPEARED. TODAY ONLY A FEW THIN FRAGMENTS OF THE PROMINENCE CAN BE SEEN.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW. NO REGIONS CURRENTLY VISIBLE ON THE SUN WOULD SEEM CAPABLE OF PRODUCING MAJOR ENERGETIC FLARES WITHOUT GROSS REDEVELOPMENT AND VERY RAPID GROWTH.

II. THE GEOMAGNETIC FIELD WAS ACTIVE BETWEEN ABOUT 0600 AND 1500 UT. THE SPECIFIC CAUSE OF THIS DISTURBANCE IS UNKNOWN. THE FIELD IS CURRENTLY QUIET AND IS EXPECTED TO BE MILDLY UNSETTLED TO QUIET FOR THE NEXT 48 HOURS. AFTER THAT, THE FIELD SHOULD BECOME UNSETTLED TO MILDLY ACTIVE.

III. EVENT PROBABILITIES 19 AUGUST - 21 AUGUST

CLASS M 25/25/25

CLASS X 01/01/01

PROMPTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 AUGUST 211

PREDICTED 19-21 AUGUST 215/213/207

90-DAY MEAN 18 AUGUST 193

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 AUGUST 11

ESTIMATED AFR/AP 18 AUGUST 17/23

PREDICTED AFR/AP 19-21 AUGUST 07/12 - 06/10 - 10/15

SOLTERWARN

BT