

HFUS 1 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 263

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 19 SEPT 1980

IA. SOLAR ACTIVITY HAS CONTINUED LOW DURING THE PAST 24 HOURS. ONLY SMALL FLARES HAVE BEEN REPORTED THE LARGEST A C2/SF FROM REGION 2675 (S12W37). REGION 2684 (N18E30) HAS SHOWN GROWTH IN BOTH SPOT AREA AND COMPLEXITY. CONTINUED GROWTH IN THIS REGION IS EXPECTED. REGION 2672/2675 HAVE CONTINUED TO CHANGE WITH MOST OF THE GROWTH IN THE TRAILERS OF REGION 2672. REGION 2675 IS NOW OF REVERSED POLARITY HAVING LOST THE LEADERS AND DEVELOPED A SMALL LEADER POLARITY IN THE TRAILER PORTION. NEW REGION 2688 (S27E73) H TYPE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. REGIONS 2684, 2665 AND 2672/2675 ARE THE MOST LIKELY TO FLARE HOWEVER ONLY SUBFLARES ARE EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BECOME ACTIVE IN THE NEXT 24-36 HOURS DUE TO THE EFFECTS OF THE FILAMENT, WHICH DISAPPEARED ON 16 SEPT. THE FIELD IS THEN EXPECTED TO BE UNSETLED THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 20 - 22 SEPT

CLASS M 20/20/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 SEPT 161

PREDICTED 20 - 22 SEPT 164/166/170

50-DAY MEAN 19 SEPT 183

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 18 SEPT

05

ESTIMATED AFR/AP 19 SEPT

07/07

PREDICTED AFR/AP 20 - 22 SEPT

17/17 12/12 08/10

SOLTERWARN

BT