

HFUS 1 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 262

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 18 SEP 1980

IA. SOLAR ACTIVITY HAS BEEN LOW WITH ONLY SMALL FLARES OBSERVED DURING THE PAST 24 HOURS FROM FIVE REGIONS. THE MOST SIGNIFICANT OF THESE WAS A C3/1N AT 1810Z FROM REGION 2665 (N15W63). THE REGION HAS EXPERIENCED GRADUAL PLAGE GROWTH AND IS OF INTEREST BECAUSE OF PLAGE DEVELOPMENT NEAR THE LARGE SPOT. REGION 2675 (S12W23) HAS PRODUCED FOUR SUBFLARES DURING THE EARLY PART OF THE UT DAY AND CONTINUES TO BE OF INTEREST BECAUSE OF ITS CLOSE PROXIMITY TO REGION 2672 (S11W34). THIS COMPLEX HAS CONTINUED SLOW GROWTH WITH POINT BRIGHTENINGS, COMPACT PLAGE AND EMERGING FLUX. REGIONS 2674 (S08W66) AND 2680 (S32E33) HAVE ALSO PRODUCED SUBFLARES AND APPEAR TO BE GROWING SLOWLY. REGION 2685 (N22W37), REGION 2686 (N17W01) AND REGION 2687 (N10E45) ARE ALL NEW AND DISPLAY EMERGING FLUX. A POSSIBLE ERUPTIVE PROMINENCE ON THE LIMB OCCURRED AT SE 20 SOMETIME BEFORE 13Z. AS A RESULT, A SLIGHT REMNANT WAS VISIBLE AT .2R ABOVE THE LIMB UNTIL 15Z. ALL OTHER DISK AND LIMB FEATURES APPEAR QUIET AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW WITH SUBFLARES POSSIBLE FROM ANY OF THE ABOVE REGIONS. REGION 2672/2675 APPEARS TO HAVE THE MOST FLARE POTENTIAL.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO BE QUIET DURING THE NEXT 24 HOURS. ON THE SECOND DAY OF THE FORECAST PERIOD SLIGHTLY ACTIVE MAGNETIC CONDITIONS ARE EXPECTED AND ON THE THIRD DAY GENERALLY UNSETTLED MAGNETIC CONDITIONS WILL PREVAIL.

III. EVENT PROBABILITIES 19-21 SEP

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 SEP 153

PREDICTED 19 - 21 SEP 153/153/156

90-DAY MEAN 18 SEP 184

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 17 SEP 15

ESTIMATED AFR/AP 18 SEP 08/08

PREDICTED AFR/AP 19 - 21 SEP 10/10 17/17 12/12

SOLTERWARN

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