

HFUS3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 179

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 JUN 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100 TO 28/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. A NEW REGION WAS NUMBERED TODAY AS REGION 4670 (S08E81) AND IS CURRENTLY AN HSX TYPE SPOT GROUP WITH AN ALPHA MAGNETIC CLASSIFICATION. THIS IS THE ONLY SPOTTED REGION ON THE DISK TODAY. OCCASIONAL SURGING CONTINUES IN THIS AREA AS IT MOVES FURTHER ONTO THE DISK. THIS ACTIVITY IS POSSIBLY THE EMERGENCE OF THE RETURNING COMPLEXED REGIONS 4660, 4662 AND 4665. A SUBFAINT OPTICAL FLARE WAS OBSERVED AT 28/0125Z FROM REGION 4668 (S14W35). A 6 DEGREE LONG DISAPPEARING FILAMENT AT S12W44 WAS REPORTED AT 28/1725Z ASSOCIATED WITH REGION 4668.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW THROUGHOUT THE FORECAST PERIOD. WITH THE PRESENCE OF REGION 4670 AND THE RETURN OF THE COMPLEXED REGIONS 4660, 4662 AND 4665, ENHANCEMENT IN THE X-RAY BACKGROUND FLUX AND 10 CM SOLAR RADIO FLUX IS POSSIBLE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED TO ACTIVE THE PAST 24 HOURS. MINOR TO MAJOR STORM CONDITIONS WERE OBSERVED AT HIGH LATITUDES BETWEEN 28/0130-28/0900Z. THE PROBABLE CAUSE OF THIS DISTURBANCE WAS A NORTHERN CROWN CORONAL HOLE WHICH EXTENDED SOUTHWARD AND CROSSED CENTRAL MERIDIAN ON 25 JUNE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 29 JUN-01 JUL

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 JUN 069

PREDICTED 29 JUN-01 JUL 070/072/074

90 DAY MEAN 28 JUN 077

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 JUN 016/018

ESTIMATED AFR/AP 28 JUN 018/025

PREDICTED AFR/AP 29 JUN-01 JUL 012/015-014/020-012/020

SOLTERWARN

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