

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 161

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 10 JUN 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/2100 TO 10/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4663 (N01E22) PRODUCED FOUR SUB-FLARES WITH VERY LOW B-LEVEL X-RAYS OR NO DISCERNIBLE X-RAY ACCOMPANIMENT. REGION 4659 (S06W26) PRODUCED A SUB-FLARE ALSO WITHOUT X-RAYS. THIS REGION WAS WRONGLY ATTRIBUTED WITH THE REGION 4665'S (S10W19) EVENTS AND SPOTS ON 9 JUN DUE TO THE CLOSE PROXIMITY OF THE NEW PLEBE DEVELOPMENT. REGION 4665 HAS QUICKLY GROWN TO A CRO (WHITE-LIGHT CLASSIFICATION) BETA-GAMMA (MAGNETIC) BUT HAS NOT PRODUCED SIGNIFICANT ACTIVITY. NEWLY ASSIGNED REGION 4664 (N00E44) ALSO WAS A CRO BUT A SIMPLE BETA-TYPE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. RETURNING REGIONS 4657 (N08, CAR 247) AND 4656 (N07, CAR 237) DO NOT PROVIDE SIGNIFICANT ACTIVITY POTENTIAL.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 09/2100Z TO 10/2100Z: GEOMAGNETIC ACTIVITY WAS AT MINOR TO MAJOR STORM LEVELS. A SUDDEN STORM COMMENCEMENT AT 9/1714Z WAS FOLLOWED BY MINOR STORM LEVELS AT MID LATITUDES FROM 9/2400Z UNTIL 10/0900Z. HIGH LATITUDES EXPERIENCED MAJOR STORM LEVELS FROM 10/0300-0900Z. THIS DISTURBANCE WAS ATTRIBUTED TO THE PARALLEL RIBBON FLARE EVENT OF 8/0024Z THAT DISPLAYED A TYPE II RADIO SWEEP WITH A SHOCK SPEED OF 3000 KM/S.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE ACTIVE. MINOR STORM PERIODS ARE STILL POSSIBLE DURING LOCAL MID-NIGHT HOURS AS THE FIELD RESTABILIZES DURING THE FIRST DAY (11 JUN).

III. EVENT PROBABILITIES 11 JUN-13 JUN

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 JUN 089

PREDICTED 11 JUN-13 JUN 090/091/090

90-DAY MEAN ----- 10 JUN 077

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 JUN 018/021

ESTIMATED AFR/AP 10 JUN 029/050

PREDICTED AFR/AP 11 JUN-13 JUN 019/025-015/020-014/020

SOLTERWARN

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