

HF083 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 158

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 JUN 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100 TO 07/2100Z: SOLAR ACTIVITY WAS VERY LOW. ACTIVE SURGING ON THE EAST LIMB FROM S03 TO N01 EXTENDED TO .03 SOLAR RADII THE LAST HALF OF THE PERIOD. REGION 4663 (S00E60) ROTATED ONTO THE DISK SO THAT ITS DSO (WHITE-LIGHT CLASSIFICATION) BETA-TYPE

(MAGNETIC) COULD BE SEEN. IT BRIEFLY SUPPORTED AN ARCHED FILAMENT SYSTEM AND DARK FILAMENT. REGION 4660 (S22E28) ALSO PRODUCED AN ARCHED FILAMENT SYSTEM. IT REMAINED A CAU BETA-TYPE WITH ONLY SLIGHT DECAY. REGION 4662 (S14E26) CONTINUED AS THE LARGEST SPOTTED AREA WITH ITS HHX ALPHA-TYPE UNCHANGED. REGION 4659 (S04E13) PROVIDED AN ACTIVE DARK FILAMENT IN ITS MODERATE TO DULL PLAGE, WHILE REGION 4661 (S20W98) ROTATED AROUND THE WEST LIMB WITH DULL PLAGE. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. RETURNING REGION 4655 (S08, CAR 262) DOES NOT PROVIDE SIGNIFICANT ACTIVITY POTENTIAL AND IS EXPECTED AT 10/1600Z.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z: GEOMAGNETIC ACTIVITY WAS AT A MINOR STORM LEVEL. AN INITIAL SUDDEN STORM COMMENCEMENT AT 06/0544Z WAS FOLLOWED BY GENERALLY ACTIVE CONDITIONS UNTIL 07/0600Z WHEN MINOR STORM LEVELS OCCURRED AT MID LATITUDES UNTIL 07/1330Z. HIGH LATITUDES EXPERIENCED MAJOR STORM LEVELS FROM 07/0430 UNTIL 07/1330Z. THIS DISTURBANCE WAS PROBABLY DUE TO THE DISAPPEARING FILAMENTS OF 1-3 JUN: A 15 DEGREE LONG FILAMENT LOCATED AT N15E22 WAS MISSING BY 01/1300Z; A FOUR DEGREE LONG FILAMENT LOCATED AT S37E16 WAS MISSING BY 01/1400Z; AND A 23 DEGREE LONG FILAMENT LOCATED AT S25W25 FRACTURED AND DISAPPEARED OVER A THREE DAY PERIOD STARTING AT 01/1123Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE ACTIVE THROUGH THE FIRST DAY (8 JUN). BRIEF MINOR STORM CONDITIONS ARE POSSIBLE DURING LOCAL MID-NIGHT PERIODS. THE SECOND AND THIRD DAYS ARE EXPECTED TO DROP DOWN TO AN UNSETTLED LEVEL.

III. EVENT PROBABILITIES 08 JUN-10 JUN

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JUN 086

PREDICTED 08 JUN-10 JUN 087/088/088

90 DAY MEAN 07 JUN 077

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 JUN 026/026

ESTIMATED AFR/AP 07 JUN 029/040

PREDICTED AFR/AP 08 JUN-10 JUN 019/020-010/015-008/010

SOLTERWARN

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