

HFUS3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 186

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 05 JUL 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/2100 TO 05/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4670 (S07W11) DEVELOPED ADDITIONAL TRAILER SPOTS SOUTH-EAST OF THE MAIN LEADER TO BECOME A CAO BETA-TYPE IN WHITE LIGHT CLASSIFICATION. REGION 4671 (S14E18) INCREASED IN OVERALL COMPLEXITY TO A DSI/BETA WITH 12 SPOTS. ~~IT PRODUCED NO CORRELATED FLARE ACTIVITY.~~ THE REGION NUMBERED YESTERDAY TO ITS SOUTH, REGION 4672 (S18E20) PRODUCED SLOWLY RISING B-CLASS X-RAY EVENTS WITH SUB-FLARES AND MAY BE THE ~~IMPULSUS OF THIS SECTOR'S ENERGY~~ RELEASE. REGION 4673 (N06W24) APPARENTLY PEAKED OUT YESTERDAY WITH INTENSITY FOUR PLAGE AND AN AXX/~~ALPHA~~ TYPE AS IT WAS A SPOTLESS DULL PLAGE THIS PERIOD. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGIONS 4671/4672 PROVIDE A VERY SLIGHT CHANCE OF MODERATE ACTIVITY (M-LEVEL X-RAYS). NO RETURNING REGION PROVIDES SIGNIFICANT ACTIVITY POTENTIAL.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 04/2100Z TO 05/2100Z: GEOMAGNETIC ACTIVITY WAS AT MINOR STORM TO ACTIVE LEVELS. THIS DISTURBANCE IS PROBABLY THE RESULT OF THE M4/2B TYPE II/IMP 3 RADIO SWEEP EVENT OF 2/2128Z. THAT FLARE INDICATED AN ESTIMATED SHOCK SPEED OF 2500 KM/S. A SMALL SUDDEN IMPULSE OCCURRED AT 4/0830Z (APPROX.) AND MIGHT HAVE BEEN THE START OF A GLOBAL STORM HAD MID LATITUDES INCREASED TO A MINOR STORM THRESHOLD ON THE RUNNING A-INDEX. HIGH LATITUDES EXPERIENCED MINOR STORM LEVELS UNTIL 5/1500Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE ACTIVE TO UNSETTLED. MINOR STORM PERIODS ARE POSSIBLE AT HIGH LATITUDES DURING NIGHTTIME AND PERHAPS AT MID LATITUDES DURING MID-NIGHTS THE FIRST DAY (6 JUL), THE SECOND AND THIRD DAYS ARE EXPECTED TO BE GENERALLY ACTIVE TO UNSETTLED AT ALL LATITUDES WITH THE POSSIBILITY OF A SOLAR SECTOR BOUNDARY ENHANCEMENT ON THE THIRD DAY. THE OUTLOOK IS EXPECTED TO BE UNSETTLED TO ACTIVE (9-12 JUL).

III. EVENT PROBABILITIES 06 JUL-08 JUL

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 JUL 081

PREDICTED 06 JUL-08 JUL 081/082/083

90 DAY MEAN 05 JUL 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 JUL 024/032

ESTIMATED AFR/AP 05 JUL 015/025

PREDICTED AFR/AP 06 JUL-08 JUL 015/020-015/020-015/020

SOLTERWARN

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