

HFUS 3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 107

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 16 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100 TO 16/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. ONLY A FEW X-RAY BURSTS HAVE OCCURRED AND THESE HAVE BEEN BELOW THE CLASS C LEVEL. REGION 4468 (N09W07) STILL RETAINS ITS MAGNETIC ANOMOLIES WITH LITTLE STRUCTURAL CHANGE. THIS REGION HAS BEEN STABLE WITH THE LAST REPORTED SUBFLARE HAPPENING 39 HOURS AGO. THE FEW REPORTED SUBFLARES HAVE ALL OCCURRED IN REGION 4469 (S16E52). A LEAD POLARITY SPOT HAS EMERGED IN THE TRAILER STRUCTURE MAKING THE MAGNETIC CONFIGURATION FOR REGION 4469 A BETA GAMMA. REGION 4470 (S21W19) HAS ALREADY BEGUN A SLIGHT DECAY. REGION 4471 (N04W19) HAS EMERGED WEAKLY TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO TRANSIT FROM UNSETTLED TO ACTIVE LEVELS DURING THE FIRST HALF OF THE FORECAST PERIOD AND THEN REMAIN ACTIVE THROUGH THE END OF THE PERIOD.

III. EVENT PROBABILITIES 17 APR-19 APR

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 APR 16 APR 116

PREDICTED 17 APR-19 APR 115/113/112

90 DAY MEAN 16 APR 130

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 APR 011/012

ESTIMATED AFR/AP 16 APR 007/010

PREDICTED AFR/AP 17 APR-19 APR 010/015-015/025-015/020

SOLTERWARN

BT