

HFUS 3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 165

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 JUN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100 TO 14/2100Z: SOLAR ACTIVITY HAS BEEN LOW. ONLY C-CLASS SUBFLARES HAVE BEEN OBSERVED FROM A VARIETY OF REGIONS. REGION 4204 (S09W49) HAS BEEN THE MOST ACTIVE OF THESE REGIONS, PRODUCING THE LARGEST EVENT OF THE PERIOD, A C2/SN AT 0441Z MAXIMUM. THIS REGION CONTINUES TO DECAY SLOWLY, BUT RETAINS AN ACTIVE NEUTRAL LINE FILAMENT. REGIONS 4205 (S11W30), 4208 (S07E51), 4209 (N13E63) AND 4210 (N18E63) HAVE ALSO PRODUCED MINOR SUBFLARE ACTIVITY. OF THESE REGIONS 4210 DISPLAYS THE MOST COMPLEXITY WITH A TREND TOWARDS BETA-GAMMA MAGNETIC COMPLEXITY AND A STRENGTHENING MAGNETIC GRADIENT. THE REMAINDER OF THE DISK REGIONS HAVE DISPLAYED LITTLE DYNAMIC CHANGES. NEW REGION 4212 (S09W10) HAS EMERGED ON THE DISK TODAY AS A SIMPLE A-TYPE SPOT GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW FOR THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 13/2100Z TO 14/2100Z: THE GEOMAGNETIC FIELD WAS AT HIGH ACTIVE TO OCCASIONAL MINOR STORM LEVELS FOR THE FIRST PART OF THE PERIOD FOLLOWED BY A TREND TOWARDS LOW ACTIVE LEVELS BY THE END OF THE PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO REMAIN ACTIVE WITH OCCASIONAL MINOR STORM CONDITIONS POSSIBLE BY MID-DAY ON THE 16TH AND LASTING FOR THE DURATION OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 15 JUN-17 JUN

CLASS M 15/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 JUN 123

PREDICTED 15 JUN-17 JUN 120/118/117

90 DAY MEAN 14 JUN 128

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 JUN 067/074

ESTIMATED AFR/AP 14 JUN 018/015

PREDICTED AFR/AP 15 JUN-17 JUN 015/015-020/020-025/020

SOLTERWARN

BT