

FUS 3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 195

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100 TO 14/2100Z: SOLAR ACTIVITY HAS CONTINUED LOW. X-RAY BURSTS HAVE BEEN AT THE LOW CLASS C LEVEL. MOST OF THE REPORTED FLARES HAVE OCCURRED IN REGIONS 4236 (S11W79) AND 4237 (S16W31). REGION 4237 IS DOMINATED BY A LARGE LEADER SPOT; PERIPHERAL SPOTS EMERGE AND DECAY ON A DAILY BASIS. TRAILER SPOTS HAVE EMERGED AHEAD OF THE LEADER OF REGION 4243 (N15W23) MAKING THIS REGION A BETA GAMMA MAGNETIC CLASS. REGION 4246 (N17E23) HAS EMERGED RAPIDLY. A STRONG ARCH FILAMENT SYSTEM REMAINS INDICATING CONTINUED GROWTH CAN BE EXPECTED. REGION 4247 (N15E75) - WHICH IS THE RETURN OF OLD REGION 4216 - HAS ROTATED ON TO THE DISK. THE SAC PEAK CALCIUM FILTERGRAM HAS A MODERATE INTENSITY FLARE FOR THIS REGION.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 13/2100Z TO 14/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: WEAK REMNANTS OF A CORONAL HOLE ARE EXPECTED TO RAISE THE GENERAL LEVEL OF THE GEOMAGNETIC FIELD TO THE ACTIVE CATEGORY FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 15 JUL-17 JUL

CLASS M 10/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 JUL 120

PREDICTED 15 JUL-17 JUL 118/118/120

90 DAY MEAN 14 JUL 135

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 JUL 020/025

ESTIMATED AFR/AP 14 JUL 012/015

PREDICTED AFR/AP 15 JUL-17 JUL 015/025-015/020-014/020

SOLTERWARN

BT