

FUS 3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 196

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100 TO 15/2100Z: SOLAR ACTIVITY REMAINS LOW WITH ONLY OCCASIONAL LOW LEVEL CLASS C X-RAY BURSTS OCCURRING. REGION 4246 (N18E10) HAS CONTINUED TO GROW, PRIMARILY IN THE TRAILER POLARITY STRUCTURE. REGION 4240 (S15E16) IS CURRENTLY UNDERGOING A MODERATE GROWTH PHASE. HOWEVER, ALL DISK REGIONS ARE NOMINAL IN PLAGE SIZE AND SIMPLE IN MAGNETIC STRUCTURE. REGIONS 4248 (N03E11) AND 4249 (S10E30) HAVE BEEN ADDED TODAY.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETTLED DURING THE PAST 24 HOURS. THE EXPECTED WEAK EFFECT FROM THE OLD DETERIORATING CORONAL HOLE HAS NOT OCCURRED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE. THE IMPACT FROM THE NEXT CORONAL HOLE IS EXPECTED TO BEGIN ON THE LATTER HALF OF 18 JULY.

III. EVENT PROBABILITIES 16 JUL-18 JUL

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 JUL 121

PREDICTED 16 JUL-18 JUL 122/123/125

90 DAY MEAN 15 JUL 135

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 JUL 011/012

ESTIMATED AFR/AP 15 JUL 007/010

PREDICTED AFR/AP 16 JUL-18 JUL 015/015-012/020-014/020

SOLTERWARN

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