

HFUS 3 BOU 022200

FROM SPACE ENVIRONMENT SERV CES CENTER, BOULDER, COLORADO

SDF NUMBER 183

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100 TO 02/2100Z: SOLAR ACTIVITY HAS BEEN LOW. NUMEROUS XRAY CLASS C FLARES OCCURRED, WITH MOST OF THESE COMING FROM REGION 4235 (S20E64). THIS REGION IS NOW A DSO GROUP WITH AN AREA OF 140 MILLIONTHS AND HAS A BETA MAGNETIC CLASSIFICATION. REGIONS 4234 (S08E69) AND 4227 (S08W13) ALSO PRODUCED SMALL FLARES. REGION 4227 IS STILL A MAGNETIC CLASS BETA-GAMMA-DELTA, BUT IT IS CONTINUING TO DECAY SLOWLY. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW, HOWEVER THERE IS STILL A CHANCE FOR ISOLATED M CLASS XRAY EVENTS FROM EITHER REGION 4235 OR 4227.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED FOR THE NEXT TWO DAYS. ACTIVE CONDITIONS ARE EXPECTED ON THE THIRD DAY IN RESPONSE TO A CORONAL HOLE THAT HAS NOW PASSED CENTRAL MERRIDIAN.

III. EVENT PROBABILITIES 03 JUL-05 JUL

CLASS M 35/30/25

CLASS X 05/01/01

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 JUL 121

PREDICTED 03 JUL-05 JUL 121/125/130

90 DAY MEAN 02 JUL 132

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 JUL 006/010

ESTIMATED AFR/AP 02 JUL 009/010

PREDICTED AFR/AP 03 JUL-05 JUL 010/010-010/015-015/020

SOLTERWARN

BT