

HFUS 3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 106

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100 TO 15/2100Z: SOLAR ACTIVITY REMAINS LOW WITH ONLY AN OCCASIONAL CLASS C EVENT. THE LARGEST OF THESE WAS A C4/SN AT 1305Z FROM REGION 4469 (S16E64). NEARLY ALL OPTICAL SUBFLARES RECORDED HAVE BEEN FROM THIS REGION. SLOW GROWTH IN BOTH SUNSPOTS AND PLAGE CONTINUE IN REGION 4469. REGION 4468 (N09E06), THOUGH DISFIGURED WITH MAGNETIC ANOMOLIES, HAS REMAINED SERENE. ENERGY DISSIPATION HAS BEEN VIA PLAGE INTENSITY FLUCTUATIONS AND POINT BRIGHTENINGS. REGION 4470 (S21W05) CONTAINS A TIGHT CLUSTER OF SPOTS AND MODERATE INTENSITY PLAGE; HOWEVER, SO FAR IT HAS BEEN SANS FLARES.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. THERE IS A CHANCE FOR AN ENERGETIC FLARE FROM REION 4468.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO SLIGHTLY ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED DURING THE FIRST HALF OF THE FORECAST PERIOD BUT BECOMING ACTIVE DURING THE LATTER HALF OF THE PERIOD.

III. EVENT PROBABILITIES 16 APR-18 APR

CLASS M 50/30/30

CLASS X 05/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 APR 119

PREDICTED 16 APR-18 APR 122/124/125

90 DAY MEAN 15 APR 129

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 APR 014/017

ESTIMATED AFR/AP 15 APR 013/014

PREDICTED AFR/AP 16 APR-18 APR 010/015-010/015-015/025

SOLTERWARN

BT