

HFUS3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 288

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 OCT 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100 TO 15/2100Z: SOLAR ACTIVITY CONTINUES VERY LOW. A NEW REGION WAS ASSIGNED- REGION 4698 (N05E81)- AND AN H-TYPE SPOT GROUP IS NOW VISIBLE THERE. AN INCREASE IN THE 1-8 ANGSTROM X RAY BACKGROUND HAS BEEN NOTED, WITH THE C1 LEVEL ATTAINED AT 0257Z. THIS EVENT HAD NO OPTICAL COUNTERPART. REGION 4697 (S16W18) HAS BEEN QUIET AND STABLE. REGION 4696 (S11W37) IS A SPOTLESS PLAGE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE VERY LOW. AN OCCASIONAL C-CLASS SUBFLARE IS THE MOST ENERGETIC EVENT ANTICIPATED.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: THE GEOMAGNETIC FIELD HAS BEEN PREDOMINANTLY UNSETTLED TO ACTIVE. MAJOR STORM CONDITIONS WERE OBSERVED AT HIGH- LATITUDE SITES FROM 0600-1200Z. THE SOURCE OF THIS DISTURBANCE MAY BE A FILAMENT WHICH DISAPPEARED EARLY OCTOBER 11.

IIB. GEOPHYSICAL ACTIVITY FORECAST: ACTIVE TO MINOR STORM LEVELS ARE FORECAST THROUGH OCTOBER 18. THIS RESPONSE IS BASED ON DISAPPEARING FILAMENTS DURING THE FORMER PART OF THE PERIOD, AND CORONAL HOLE EFFECTS THE LATTER PART.

III. EVENT PROBABILITIES 16 OCT-18 OCT

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 OCT 072

PREDICTED 16 OCT-18 OCT 073/074/075

90 DAY MEAN 15 OCT 071

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 OCT 008/010

ESTIMATED AFR/AP 15 OCT 020/026

PREDICTED AFR/AP 16 OCT-18 OCT 025/030-025/025-020/020

SOLTERWARN

BT