

HFUS 1 B0U 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 242

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 AUGUST 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. HOWEVER, REGIONS 2646 (N12E52) AND 2645 (S08E50) HAVE SHOWN RAPID GROWTH IN WHITE LIGHT AND MAGNETIC COMPLEXITY. REGION 2648 (S06E62) IS NOW OBSERVED TO BE AN ABNORMAL, (FOLLOWER DOMINANT) C-TYPE GROUP EMBEDDED IN BRIGHT FLARE AND IS CLOSELY ASSOCIATED WITH 2645. ALL OTHER PRE-EXISTING REGIONS REMAINED STABLE OR DECAYED. TWO NEW REGIONS WHICH ARE BOTH C-TYPE GROUPS APPEARED ON THE DISK TODAY. THEY ARE REGIONS 2649 (N22E02), WHICH IS EXHIBITING A STRONG ARCH FILAMENT SYSTEM, AND 2650 (S08E09).

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE OWING TO THE FLARE POTENTIAL IN REGIONS 2645, 2646, AND 2648. THERE IS AN INCREASING CHANCE OF A MAJOR FLARE OVER THE NEXT THREE DAYS BASED ON CONTINUED DEVELOPMENT IN THESE REGIONS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. THERE ARE NO OBSERVABLE FACTORS WHICH WOULD INDICATE A CHANGE FROM QUIET CONDITIONS DURING THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 30 AUGUST - 01 SEPTEMBER

CLASS M 70/70/80

CLASS X 05/05/10

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 AUGUST 175

PREDICTED 30 AUG - 01 SEPT 180/182/185

90-DAY MEAN 29 AUG 183

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 28 AUG 04

ESTIMATED AFR/AP 29 AUG 01/07

PREDICTED AFR/AP 30 AUG - 01 SEPT 05/08 05/08 05/08

SOLTERWARN

BT