

HFUS 1 ROU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 156

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 05 JUNE 1979

IA. THE PAST 24 HOUR PERIOD WAS PUNCTUATED BY A SECOND CLASS "X" X-RAY BURST IN AS MANY DAYS. REGION 1781 (N20E04) WAS AGAIN THE PRODUCING SOURCE. PARTICULARS WITH THIS EVENT WERE AS FOLLOWS: X2/IN FLARE AT 050549Z (MAX), 3700 FLUX UNIT BURST AT 10 CM, STRONG TYPE IV WITH WEAK TYPE II AND AN IMPORTANCE 3 SHORTWAVE FADE. REGION 1781 MAY HAVE DECLINED SLIGHTLY IN SPOT AREA BUT ITS OTHER PARAMETERS REMAIN COMPATIBLE WITH THOSE GENERALLY ASSOCIATED WITH FLARE PRODUCTION. REGION 1782 (S20E12) ALTHOUGH STABLE IN APPEARANCE HAS SHOWN CONTINUOUS RESTRUCTURING AND DEVELOPMENT IN WHITE LIGHT AS WELL AS IN THE FIELD ALIGNMENT IN H-ALPHA. 1782 MAY VERY WELL BE A BETA GAMMA. REGION 1774 (N14W26) REMAINS DORMANT AND CONTINUES ITS SLOW DECAY. A NEW REGION, 1795 (S34E22), WAS BORN DURING THE LAST 24 HOURS AND GREW RAPIDLY IN ITS EARLY STAGES. THERE IS A PAUCITY OF FLARE WITH THIS REGION. AN ACTIVE SURGE REGION NEAR SE17 PERSISTED FOR SEVERAL HOURS DURING THE LATTER HALF OF THIS ZULU DAY AND IS PROBABLY THE FIRST INDICATION OF ANOTHER ACTIVE REGION.

IB. SOLAR ACTIVITY SHOULD CONTINUE MODERATE TO HIGH.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET. THE X1 FLARE WHICH OCCURRED ON 04 JUNE IS EXPECTED TO INFLUENCE THE FIELD STARTING ON 06 JUNE, FOLLOWED SHORTLY BY AN IMPACT FROM THE X2 FLARE WHICH OCCURRED ON 05 JUNE. THE INFLUENCE OF THESE TWO EVENTS SHOULD RENDER ACTIVE TO MINOR STORM CONDITIONS THROUGHOUT THE COMING THREE DAY PERIOD.

III. EVENT PROBABILITIES 06 JUNE - 08 JUNE

CLASS M 80/80/80

CLASS X 20/20/20

PROTON 05/10/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 JUNE 224

PREDICTED 06-08 JUNE 222/220/216

90-DAY MEAN 05 JUNE 179

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 04 JUNE 06

ESTIMATED AFR/AP 05 JUNE 06/07

PREDICTED AFR/AP 06-08 JUNE 25/20 - 40/30 - 25/20

SOLTERWARN

BT