

HFUS 1 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 137

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 16 MAY 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. THE  
LARGEST FLARE WAS A C6/SN AT 0135Z (MAX) FROM REGION 2438 (S16-  
W49). THE CURRENT LOW ACTIVITY LEVEL BELIES THE STRUCTURAL  
CHANGES THAT HAVE OCCURRED. BOTH REGIONS 2452 (S08E11) AND 2456  
(S13E48) NOW CONTAIN DELTA CONFIGURATIONS WITH MODEST GRADIENTS.  
REGION 2455 (N15E33) HAS ALSO BEEN GROWING TODAY WITH STRONG  
ARCH FILAMENT SYSTEMS PRESENT. REGION 2460 (N25E19) HAS  
EMERGED TODAY. REGION 2438 CONTINUES TO DECAY.

IB. ACTIVITY IS EXPECTED TO RETURN TO A MODERATE LEVEL WITH  
BOTH REGIONS 2452 AND 2456 CAPABLE OF SMALL CLASS M X-RAY BURSTS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD IS EXPECTED  
TO BE QUIET TO SLIGHTLY UNSETTLED THROUGH THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 17 - 19 MAY

CLASS M 60/70/70

CLASS X 05/05/05

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 MAY 202

PREDICTED 17-19 MAY 204/206/206

90-DAY MEAN 16 MAY 189

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 MAY 08

ESTIMATED AFR/AP 16 MAY 04/07

PREDICTED AFR/AP 17-19 MAY 06/08 08/10 08/10

SOLTERWARN

BT