

HFUS 1 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 089

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

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.  
REGION 2357 (N08W19) HAS BEEN THE MAIN CONTRIBUTOR, PRODUCING  
RADIORICH EVENTS ABOUT EVERY HOUR FROM 0200Z UNTIL 0900Z. THE  
LARGEST, AN M1/SB OBSERVED BY ATHENS AT 0958Z MAXIMUM HAD  
ASSOCIATED SHORT WAVE FADES, A TYPE V SWEEP AND RADIO BURSTS  
THROUGH THE SPECTRUM. THE LARGEST RADIO EVENT OCCURRED AT 0513Z  
MAXIMUM WITH 2300 FLUX UNITS REPORTED AT 2695 MHZ. THIS REGION  
LOOKS LESS COMPLICATED THAN REGION 2363 (N26E31) BUT EVIDENTLY  
UNDERWENT SIGNIFICANT CHANGES DURING THE PAST 24 HOURS. REGION  
2363 POSSESSES A LARGE COMPLEX SPOT GROUP WITH TWO DELTA CON-  
FIGURATIONS VISIBLE, ONE IN THE SOUTH WEST LEADING PORTION AND  
ONE LOCATED IN THE TRAILING PENUMBRA. REGION 2361 (N10W02) HAS  
GROWN RAPIDLY DURING THE PAST 24 HOURS, AND COULD BE INTERACTING  
WITH REGION 2359 (N14W00). NEW REGION 2367 (S26E75) HAS ROTATED  
OVER THE EAST LIMB AS A SMALL H-TYPE GROUP.

IB. SOLAR ACTIVITY WILL REMAIN MODERATE. REGION 2363 HAS STRONG  
POTENTIAL FOR CONTINUED M-CLASS FLARE PRODUCTION AND EVEN AN  
ISOLATED X-CLASS EVENT. THE 2357/2360 COMPLEX IS A GOOD SECOND  
CHOICE AND NOW REGIONS 2359/2361 ARE FILLING THE GAP ON THE  
SUN BETWEEN 2363 AND 2360 AND COULD BE A CLOSE THIRD IN FLARE  
PRODUCTION.

II. THE GEOMAGNETIC FIELD HAS BEEN AT LOW UNSETTLED LEVELS FOR  
THE PAST 24 HOURS. NO SIGNIFICANT CHANCE IS EXPECTED.

III. EVENT PROBABILITIES 30 MARCH - 01 APRIL

CLASS M 80/80/80

CLASS X 15/15/15

PROTON 10/15/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 MAR 201

PREDICTED 30 MAR - 01 APR 202/204/201

90-DAY MEAN 29 MAR 193

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 28 MARCH 07

ESTIMATED AFR/AP 29 MARCH 08/09

PREDICTED AFR/AP 30 MAR - 01 APRIL 10/12 07/08, 07/08

SOLAR TERRITORIAL

BT