

HFUS 1 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 246

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 15 FEBRUARY 1980

IA. ALTHOUGH SOLAR ACTIVITY WAS AT LOW LEVELS AGAIN TODAY,  
SEVERAL MORE FLARES WERE OBSERVED TODAY THAN YESTERDAY. THE MOST  
ACTIVE REGION WAS 2283 (S19E36), WHICH PRODUCED A IN/C7 AT 2249Z  
AS WELL AS SEVERAL SMALLER SUBFLARES.

IB. SOLAR ACTIVITY IS EXPECTED TO BE AT MODERATE LEVELS FOR THE  
NEXT 24 HOURS. REGIONS 2276 (S10W75) AND 2281 (N09E12) WERE  
RELATIVELY QUIET TODAY, BUT THEIR LARGE SPOT AREAS (600 MIL -  
LIONTHS EACH) INDICATE FLARE POTENTIAL. REGION 2283 IS ALSO  
CAPABLE OF AN M-CLASS EVENT.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED UNTIL ABOUT 1920Z WHEN  
A GRADUAL MAG STORM COMMENCEMENT WAS RECORDED (K-INDEX OF 5  
BETWEEN 1800Z AND 2100Z AT BOULDER). ACTIVITY SHOULD DECLINE TO  
UNSETTLED LEVELS BY 17 FEB.

III. EVENT PROBABILITIES 16-18 FEB

CLASS M 60/60/70

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 FEB 214

PREDICTED 16-18 FEB 210/207/210

90-DAY MEAN 15 FEB 206

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 14 FEB 15

ESTIMATED AFR/AP 15 FEB 17/18

PREDICTED AFR/AP 16-18 FEB 15/18 08/10 08/10

SOLTERWARN

BT