

HFUS 1 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 109

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 18 APRIL 1980

IA. SOLAR ACTIVITY HAS REMAINED LOW. THE LARGEST EVENT WAS A
C9/SB - WITH EJECTA (X-RAY MAX AT 2005Z) LOCATED AT N15E90.
REGION 2389 (N19W36) PRODUCED A C7/SB AT 0624Z. REGION 2389
HAS UNDERGONE A STRONG DECAY IN BOTH SUNSPOT AND FLARE STRUC-
TURE. HOWEVER, THIS DECAYING TREND FOR REGIONS, THAT HAS BEEN
EXHIBITED THE LAST SEVERAL DAYS, IS BEING REVERSED. REGION 2391
(N13W2) HAS HAD A STRONG EMERGENCE OF NEW FLUX. REGION 2395
(S18E46) ALSO CONTINUES A MODERATE GROWTH. REGIONS 2397 (S27E53),
2398 (N24E74), 2399 (N10E80) HAVE BEEN ADDED TODAY. IT IS
UNCERTAIN IF THE EVENT AT 2005Z WAS ASSOCIATED WITH REGION 2399.
IB. THE SUN HAS BEEN IN A TRANSITORY STATE TODAY. SOLAR ACTIVITY
IS EXPECTED TO BE LOW; HOWEVER, WITH TODAY'S CHANGES, THERE
COULD BE A RAPID RETURN TO A MODERATE LEVELS OF FLARE ACTIVITY.
II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TODAY. SLIGHTLY UN-
SETTLED FIELD CONDITIONS ARE EXPECTED THROUGH THE NEXT THREE
DAYS.

III. EVENT PROBABILITIES 19-21 APR

CLASS M 45/45/45

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 APR 200

PREDICTED 19-21 APR 206/210/212

90-DAY MEAN 18 APR 192

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 17 APR 10

ESTIMATED AFR/AP 18 APR 06/08

PREDICTED AFR/AP 19-21 APR 08/10 09/12 12/12

SOLTERWARN

BT