

HFUS-1 B 00 032200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO.

SOF NUMBER 124

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0200Z 03 MAY 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE TO LOW WITH TWO M-CLASS X-RAY EVENTS: M2.1 IN FROM REGION 2418 (S19E27) AT 1320Z AND AN M1.1 IN FROM REGION 2411 (S17W36) AT 1757Z. THE EVENT FROM REGION 2418 PRODUCED A RADIO BURST OF 300 FLUX UNITS AT 10.7 CM. THREE C9 EVENTS WERE OBSERVED AT 0019Z, 0207Z AND 0806Z. REGION 2411 PRODUCED THE 0207Z C9/1B EVENT. DURING THE M2 EVENT FROM REGION 2418 A LIGHT BRIDGE WAS REPORTED BY THE MT. WILSON OBSERVATORY. THIS COULD HAVE BEEN A WHITE-LITE FLARE BUT NO OBSERVATORIES REPORTED. AN ACTIVE PROMINENCE WAS OBSERVED DURING MOST OF THE DAY AT NW23 WITH 2-Eruptions OCCURRING NEAR 1700Z. AN ACTIVE DARK FILAMENT WAS REPORTED AT NW20W15. FOUR NEW REGIONS HAVE BEEN NUMBERED: REGION 2427 (S30W01), 2428 (N18E06), 2429 (N29E56) AND 2430 (S20E74). REGION 2420 (S23W88) DID NOT FLARE BUT WAS OBSERVED TO CONTAIN A POINT AT 1700Z. ALL OTHER DISK AND LIMB FEATURES APPEAR QUIET AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH REGIONS 2418 AND 2411 HAVING THE GREATEST POTENTIAL FOR M-CLASS EVENT PRODUCTION. BOTH REGIONS ARE GROWING AND HAVE COMPLEX MAGNETIC STRUCTURE.

REGION 2416 (N10E02) AND 2423 (N24E38) HAVE GOOD C-CLASS EVENT POTENTIAL.

II. QUIET GEOMAGNETIC CONDITIONS HAVE PREVAILED DURING THE PAST 24 HOURS. THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETLED TO ACTIVE DURING THE FIRST 24 HOURS AND REMAIN GENERALLY ACTIVE DURING THE REMAINING 48 HOURS OF THE FORECAST PERIOD. ACTIVITY ON THE FIRST DAY WILL BE A RESULT OF THE X2 FLARE OF 1 MAY. RECURRENT MAGNETIC ACTIVITY IS EXPECTED TO DOMINATE THE ACTIVITY OF THE LAST 2 DAY.

III. EVENTS PROBABILITIES: 04 - 06 MAY

CLASS M 90 / 90 / 90

CLASS X 15 / 20 / 20

PREDICTON 10 / 10 / 15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 MAY 204

PREDICTED 04 - 06 MAY 198/196/200

92-DAY MEAN 30 MAY 192

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 02 MAY 05

ESTIMATED AFR/APR 03 MAY 05/06

PREDICTED AFR/APR 04 - 06 MAY 18/15 18/18 20/25

SOLIERWARN

BT