

HFUS 1 B O U 432200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SOF NUMBER 124

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 03 MAY 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE TO LOW WITH TWO M-CLASS X-
RAY EVENTS: M2/IN FROM REGION 2418 (S19E27) AT 1320Z AND AN M1/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 PRO-
DUCED 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 NW20
WITH 2-ERUPTIONS OCCURRING NEAR 1700Z. AN ACTIVE DARK FILAMENT
WAS REPORTED AT N40W15. FOUR NEW REGIONS HAVE BEEN NUMBERED:
REGION 2427 (S30W01), 2428 (N18E06), 2429 (N29E56) AND 2430 (S20E74).
REGION 2420 (S23W38) 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 UNSETTLED 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. EVENT PROBABILITIES 04 - 06 MAY

CLASS M 90/90/90

CLASS X 15/20/20

PROTON 10/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 43 MAY 204

PREDICTED 04 - 06 MAY (198/196/200)

90-DAY MEAN 30 MAY 192

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 02 MAY 05

ESTIMATED AFR/AP 03 MAY 05/06

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

SOLIERWARN

BT