

HFUS3 BOU 312200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDE NUMBER 152

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 31 MAY 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/2100
TO 31/2100Z: SOLAR ACTIVITY WAS MODERATE THIS PERIOD DUE TO A
M1/NO OPTICAL EVENT AT 1129UT. THE MOST LIKELY REGION IS 4492
WHICH WENT AROUND THE WEST LIMB AT SW09 LATE ON 30 MAY. MINOR
RADIO WAS OBSERVED, 22 FLUX UNITS AT 2695MHZ, ALONG WITH A TYPE
II/2 SWEEP WHICH LASTED 27 MINUTES. REGION 4500 (S12E07) IS NOW
A BETA GAMMA WITH A DELTA IN THE LARGE LEADER SPOT GROUP LITTLE
ACTIVITY HAS BEEN RECORDED WITH THIS REGION HOWEVER IT IS

BECOMING MORE COMPLEX AND WILL BEAR WATCHING. NO NEW REGIONS
WERE OBSERVED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN AT OR NEAR LOW LEVELS UNLESS REGION 4500 STARTS TO
EXHIBIT MAJOR FLARE POTENTIAL.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 30/2100Z TO 31/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO QUIET DURING THE
PAST 24 HOURS.

A SMALL PROTON EVENT WAS OBSERVED TO START AT 1350UT WITH 10
PROTONS GREATER THAN 10MEV/CM2/SEC/STER AND REACHED MAXIMUM OF
15 PARTICLES AT 1415UT THE EVENT ENDED AT 1600UT. THE PROTON
EVENT IS THOUGHT TO BE FROM THE WEST LIMB AND PART OF THE
EFFECTS FROM THE M1 EVENT. THE PARTICLES HAVE BEGUN TO SHOW A
SLOW RISE AGAIN HOWEVER EVENT LEVEL IS NOT EXPECTED TO BE
REACHED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE UNSETTLED TO ACTIVE DURING THE FIRST TWO DAYS OF
THE FORECAST PERIOD. THE REST OF THE PERIOD IS EXPECTED TO BE
UNSETTLED TO QUIET.

III. EVENT PROBABILITIES 01 JUN-03 JUN

CLASS M 10/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 MAY 113

PREDICTED 01 JUN-03 JUN 113/115/117

90 DAY MEAN 31 MAY 126

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 MAY 022/024

ESTIMATED AFR/AP 31 MAY 010/012

PREDICTED AFR/AP 01 JUN-03 JUN 013/020-012/015-010/010

SOLTERWARN

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