

HFUS 1 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 135

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 15 MAY 1979.

IA. SOLAR ACTIVITY HAS CONTINUED LOW DURING THE PAST 24 HOURS.
ONLY NINE SMALL C-CLASS SUBFLARES HAVE BEEN OBSERVED DURING
THAT PERIOD. ATTENTION HAS SHIFTED TO REGION 1747 (S29W03)
WHICH HAS GROWN RAPIDLY DURING THE PAST 24 HOURS. THIS REGION
HAS MIXED MAGNETIC POLARITIES AND A GENERALLY EAST-WEST NEUTRAL
LINE, BUT HAS ONLY PRODUCED A COUPLE OF SUBFAINT FLARES SO FAR.
REGION 1740 (N15W04) ALSO HAS MIXED POLARITIES, BUT HAS RELAXED
SOMEWHAT. REGION 1743 (N16W30) HAS SHOWN SUBSTANTIAL PENUMBRAL
GROWTH IN THE LEADER (ALTHOUGH UMBRAE ARE SMALL) AND STILL CONTAINS
A WEAK DELTA CONFIGURATION, BUT IS NOT FLARING PRESENTLY. THE
OTHER FOURTEEN REGIONS ON THE DISK ARE NOT ONLY QUIET BUT APPEAR
TO HAVE NO SERIOUS FLARE POTENTIAL. NO DYNAMIC OLD REGIONS ARE
DUE BACK AT THE EAST LIMB UNTIL 18 MAY.

IB. THE GROWTH IN REGION 1747 IS UNUSUALLY RAPID. IT IS POSSIBLE
THAT THIS GROWTH WILL CONTINUE, THOUGH NOT PROBABLE. IF THE
GROWTH DOES CONTINUE ENERGETIC FLARES SHOULD BE EXPECTED IN A
COUPLE OF DAYS. OTHERWISE, WE SHOULD EXPECT A LULL IN SOLAR FLARE
ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED DURING THE
PAST 24 HOURS. THE NEXT 72 HOURS ARE EXPECTED TO BE GENERALLY
QUIET. INTERPLANETARY SCINTILLATION DATA INDICATES A GEOMAGNETIC
DISTURBANCE CAN BE EXPECTED ON 19 MAY.

III. EVENT PROBABILITIES 16 MAY - 18 MAY

CLASS M 35/30/25

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 MAY 177

PREDICTED 16-18 MAY 176/174/172

90-DAY MEAN 15 MAY 185

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 14 MAY 10

ESTIMATED AFR/AP 15 MAY 09/13

PREDICTED AFR/AP 16-18 MAY 07/10 - 05/08 - 07/10

SOLTERWARN

BT