

HFUS 3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 133

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 MAY 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100 TO 12/2100Z: SOLAR ACTIVITY WAS AT A MODERATE LEVEL DURING THE PAST 24 HOURS. THE PERIOD WAS HIGHLIGHTED BY AN M1/1B FLARE FROM REGION 4481 (N08W04) AT 120538Z (MAX). A 10CM BURST OF 140 FLUX UNITS ACCCOMPANIED THIS EVENT. REGION 4481 PRODUCED ALL OF THE ACTIVITY THIS PERIOD AS IT CONTINUES ITS SLOW DECAY.

ALTHOUGH STILL LARGE AND COMPLEX, 4481 REPORTEDLY HAS A WIDE SEPARATION IN ITS TRAILER PENUMBRA AND INDICATIONS ARE THAT IT WILL CONTINUE TO RESTRUCTURE AND DECAY. THREE NEW REGIONS WERE NUMBERED TODAY: 4485 (S11E00), 4486 (N15E23) AND 4487 (S13E62). ALL ARE SMALL AND SIMPLE AT THIS POINT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE AT A MODERATE LEVEL AS REGION 4481 REMAINS AS THE DOMINATE FEATURE. OLD RETURNING REGION 4472 IS DUE BACK ON THE DISK ON 14 MAY BUT IT WAS UNIMPRESSIVE ON ITS LAST TRANSIT.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT UNSETTLED TO SLIGHTLY ACTIVE LEVELS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 13 MAY-15 MAY

CLASS M 80/80/80

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 MAY 147

PREDICTED 13 MAY-15 MAY 149/152/151

90 DAY MEAN 12 MAY 130

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 MAY 013/012

ESTIMATED AFR/AP 12 MAY 012/015

PREDICTED AFR/AP 13 MAY-15 MAY 014/020-008/010-010/015

SOLTERWARN

BT