

HFUS3 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 1119

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 29 APR 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/2100 TO 29/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL DURING THE PAST 24 HOURS. REGION 4647 (N05W51) HAS SHOWN A DRAMATIC DEVELOPMENT OF SPOTS IN ITS LEADER PORTIONS WITH BOTH LEADER AND TRAILER POLARITIES EMERGING. AN OCCASIONAL C-CLASS FLARE IS BEING REPORTED AND THIS NEW GROWTH IS ALMOST CERTAINLY RESPONSIBLE FOR THE REVERSAL OF THE DOWNWARD TREND IN THE 10CM FLUX. A POOR H-ALPHA PICTURE SHOWS THE PLAGE TO BE FAIRLY COMPACT AND CONCENTRATED ON THE BACKSIDE OF THE SPOT GROUP. ANOTHER SMALL SPOT IS VISIBLE NEAR N05 E19 BUT IS NOT YET NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL FOR THE NEXT 24 HOURS. HOWEVER, AN INCREASE IN THE FREQUENCY OF SUBFLARE OCCURRENCE CAN BE EXPECTED AND THE THREAT OF AN ISOLATED MAJOR FLARE REMAINS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 28/2100Z TO 29/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE WITH BRIEF MINOR STORM CONDITIONS.

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

III. EVENT PROBABILITIES 30 APR-02 MAY

CLASS M 25/25/25

CLASS X 15/15/15

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 APR 082

PREDICTED 30 APR-02 MAY 077/074/071

90 DAY MEAN 29 APR 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 APR 040/065

ESTIMATED AFR/AP 29 APR 018/025

PREDICTED AFR/AP 30 APR-02 MAY 014/020-013/020-011/015

SOLTERWARN

BT