



HFUS 3 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 213B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 01 AUGUST 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/1200Z TO 01/2100Z: SOLAR ACTIVITY HAS BEEN LOW SINCE 011200Z. FREQUENT SURGE ACTIVITY ON THE EAST LIMB HAS CREATED AN ATMOSPHERE OF ANTICIPATION. THIS SURGING IS PRODUCING OCCASIONAL C-CLASS X-RAY BURSTS AND SMALL RADIO RESPONSES. REGIONS 3829 (S12E23) AND 3830 (N16E42) HAVE POINT BRIGHTENINGS, INCREASINGLY KINKED NEUTRAL LINES AND 3829 HAS AN ARCH FILAMENT SYSTEM. TWO SMALL REGIONS WERE NUMBERED TODAY: 3834 (S14W10) AND 3835 (S09W08).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO SHOW A TREND TOWARD INCREASING AS THE LIMB ACTIVITY PRESAGING THE RETURN OF OLD 3806 AND 3804 BECOMES MORE FREQUENT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. UNSETTLED TO ACTIVE CONDITIONS SHOULD CONTINUE.

III. EVENT PROBABILITIES 02 AUGUST - 04 AUGUST

CLASS M 50/70/75

CLASS X 10/15/20

PROTON 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 AUGUST 120

PREDICTED 02-04 AUGUST 133/145/156

90-DAY MEAN 01 AUGUST 160

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 JULY 22/32

ESTIMATED AFR/AP 01 AUGUST 12/16

PREDICTED AFR/AP 02-04 AUGUST 15/15 - 20/20 - 16/20

SOLTERWARN

BT