

HFUS3 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 233

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 20 AUG 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/2100 TO 20/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL DURING THE PAST 24 HOURS. THE TWO VISIBLE REGIONS, 4564 (S09E21) AND 4565 (S12E43), REMAIN AS SMALL SIMPLE STRUCTURES WITH RATHER FAINT SCATTERED PLAGES. REGION 4564 IS A SINGLE H TYPE SPOT AND 4565 IS A SINGLE A SPOT. A SMALL SURGE REGION NEAR NORTHEAST 13 EARLIER TODAY MAY PRESAGE THE APPEARANCE OF SOMETHING MORE DYNAMIC.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL FOR THE NEXT 24 HOURS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 19/2100Z TO 20/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE DURING THE PAST 24 HOURS. BRIEF STORM CONDITIONS WERE REPORTED AT 200900Z WHICH ARE BELIEVED TO BE RELATED TO A FILAMENT DISAPPEARANCE ON 16 AUGUST.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT THREE DAYS AS THE RESIDUAL EFFECTS OF THAT FILAMENT DISAPPEARANCE ON 16 AUGUST CONTINUE TO BE FELT.

III. EVENT PROBABILITIES 21 AUG-23 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 AUG 074

PREDICTED 21 AUG-23 AUG 074/075/075

90 DAY MEAN 20 AUG 095

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 AUG 012/016

ESTIMATED AFR/AP 20 AUG 019/025

PREDICTED AFR/AP 21 AUG-23 AUG 015/025-013/020-010/015

SOLTERWARN