

HFUS3 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 222

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 09 AUG 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/2100 TO 09/2100Z: REGION 4554 (N08E01) CONTINUES TO GROW SLOWLY IN PLAGE AND PENUMBRA AREA. SINCE YESTERDAY IT HAS CHANGED FROM AN OPEN TO A COMPACT DISTRIBUTION AND ALSO HAS SHOWN A SLIGHT INCREASE IN MAGNETIC GRADIENT. ITS SUNSPOT GROUP STILL REMAINS A D-TYPE. OLD REGIONS 4548, 4545, 4546, AND 4551 ARE DUE TO RETURN ON THE 10TH OF AUG, BUT THEY SHOULD NOT CONTRIBUTE TOO MUCH TO SOLAR ACTIVITY AS THEIR HISTORIES ARE QUITE UNEVENTFUL.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. OF ALL THE REGIONS, REGION 4554 WILL CONTRIBUTE THE MOST TO SOLAR ACTIVITY (IF ANY).

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 08/2100Z TO 09/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY ACTIVE AT ALL LATITUDES FOR THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO CLIMB TO STORM LEVELS EARLY ON THE 10TH. THE CORONAL HOLE THAT WAS EXPECTED TO PRODUCE SO MUCH ACTIVITY ON THE 9TH HAS DECREASED IN SIZE MORE THAN PREVIOUSLY THOUGHT. THE POSITION OF THIS CORONAL STREAM IS STILL FAVORABLE AND IT IS EXPECTED TO IMPACT THE FIELD, BUT THE DURATION OF THE EFFECTS SHOULD NOT LAST AS LONG AS WHAT OCCURRED LAST ROTATION. STORM LEVELS ARE EXPECTED TO CONTINUE THROUGH THE 11TH AND DECLINE TO ACTIVE LEVELS BY THE 12TH.

III. EVENT PROBABILITIES 10 AUG-12 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 AUG 092

PREDICTED 10 AUG-12 AUG 094/093/092

30 DAY MEAN 09 AUG 101

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 AUG 015/017

ESTIMATED AFR/AP 09 AUG 017/020

PREDICTED AFR/AP 10 AUG-12 AUG 030/040-025/035-015/030

SOLTERWARN

BT