

HFUS 3 BOU 302200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 211

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 30 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/2100
TO 30/2100Z: SOLAR ACTIVITY WAS AT MODERATE LEVELS DURING THIS
PERIOD DUE TO A M1/SB AT 1507UT FROM REGION 4269 (N14W34). THIS
EVENT PRODUCED MINOR RADIO BURSTS ACROSS THE SPECTRUM, 96 FLUX
UNITS AT 2695MHZ. REGION 4269 HAS EXHIBITED RAPID GROWTH AND
HAS BEEN THE CAUSE OF SEVERAL SMALL EVENTS DURING THE PAST 24
HOURS. REGION 4263 (S10E44) CONTINUES TO BE A LARGE COMPLEX
REGION HOWEVER IT HAS ONLY PRODUCED SMALL "C" CLASS EVENTS THE
LARGEST OF WHICH WAS A C3/1B AT 1820UT THIS EVENT DID PRODUCE A
3000 FLUX UNIT BURST AT 245MHZ. NO NEW REGIONS WERE OBSERVED
TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN MODERATE AS REGION 4263 AND 4269 CONTINUE TO EXHIBIT
GROWTH.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 29/2100Z TO 30/2100Z:
THE GEOMAGNETIC FIELD WAS AT GENERALLY ACTIVE LEVELS WITH SHORT
PERIODS, AT BOTH THE HIGH AND MID LATITUDE SITES, OF MAJOR
STORM LEVELS. THE DISTURBANCE IS BELIEVED TO BE FROM THE
FILAMENT WHICH DISAPPEARED LATE ON 24 OR EARLY ON 25 JULY. THE
DISTURBANCE WAS GENERALLY CONFINED TO THE NIGHT TIME SECTORS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: DUE TO EFFECTS OF A SMALL
CORONAL HOLE WHICH IS NOW TWO DAYS PAST CENTRAL MERIDIAN THE
GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO SLIGHTLY
ACTIVE DURING THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 31 JUL-02 AUG

CLASS M 40/40/40

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 JUL 140

PREDICTED 31 JUL-02 AUG 145/150/150

90 DAY MEAN 30 JUL 133

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 JUL 015/019

ESTIMATED AFR/AP 30 JUL 019/025

PREDICTED AFR/AP 31 JUL-02 AUG 015/015-015/015-015/015

SOLTERWARN

BT