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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 212

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 31 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/2100  
TO 31/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24  
HOURS. THE LARGEST EVENT OBSERVED WAS A C8/SF AT 2102UT FROM  
REGION 4263 (S10E31) MINOR RADIO WAS REPORTED ACROSS THE  
SPECTRUM WITH THIS EVENT. REGION 4269 (N10W43) HAS ALSO BEEN A  
PRODUCER OF SMALL "C" CLASS EVENTS WITH THE LARGEST BEING A  
C4/SN AT 0145UT AGAIN ONLY MINOR RADIO WAS OBSERVED. REGION  
4263 CONTINUES AS A LARGE COMPLEX REGION HOWEVER IT DOES APPEAR  
TO HAVE STABILIZED DURING THE PAST 24 HOURS. REGIONS 4263, 4268  
(S06E43), 4267 (S20E33) AND NEW REGION 4271 (S10E49) FORM A  
LARGE COMPLEX OF REGIONS THAT DOMINATE THE EASTERN PORTION OF  
THE SUN. NEW REGION 4271 IS A SIMPLE "B" TYPE GROUP AT THIS  
TIME.

IF. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
AT OR NEAR MODERATE LEVELS DURING THIS FORECAST PERIOD. ANY  
RAPID CHANGE IN THE LARGE EASTERN COMPLEX COULD PRODUCE AN  
ISOLATED "X" CLASS EVENT ANY TIME DURING THIS PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 30/2100Z TO 31/2100Z:  
THE GEOMAGNETIC FIELD WAS AT GENERALLY UNSETTLED LEVELS AT THE  
MIDLATITUDE SITES AND SLIGHTLY ACTIVE AT THE HIGH LATITUDE  
SITES DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO BE  
AT SLIGHTLY ACTIVE CONDITIONS AT THE HIGH LATITUDE SITES AND  
GENERALLY UNSETTLED AT THE MIDLATITUDE SITES. A SMALL CORONAL  
HOLE THREE DAYS PAST CENTRAL MERIDIAN SHOULD CAUSE THE SLIGHT  
INCREASE IN ACTIVITY FORECAST.

III. EVENT PROBABILITIES 01 AUG-03 AUG

CLASS M 40/30/30

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 JUL 153

PREDICTED 01 AUG-03 AUG 155/156/154

90 DAY MEAN 31 JUL 134

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 JUL 022/026

ESTIMATED AFR/AP 31 JUL 011/015

PREDICTED AFR/AP 01 AUG-03 AUG 013/015-015/015-013/015

SOLTERWARN

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