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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.

IB. 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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