

FUS 3 BCU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 216

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 04 AUG 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/2100 TO 04/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 4263(S09W26) PRODUCED AN M3/1B FLARE AT 04/0339Z. THE REGION COMPLEX CONTAINING REGIONS 4263 AND 4267(S22W14) HAS APPARENTLY SIMPLIFIED FURTHER ALTHOUGH GRADIENTS AROUND THE CENTRAL PART OF REGION 4263 ARE STILL STRONG. NEW REGIONS TODAY WERE SMALL BETA OR SINGLE SPOT ALPHA GROUPS NUMBERED 4273(S18W07) AND 4274(S17E22) AND 4275(N01E33) AND 4276(N11E48). REMAINING REGIONS APPEARED STABLE AND SMALL.

*Corrected 7.C.*

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO LOW WITH REDUCED POTENTIAL FOR MAJOR FLARES AS THE REGION COMPLEX DECLINES.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 03/2100Z TO 04/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TRENDING RAPIDLY TOWARD QUIET FROM THE ACTIVE LEVELS OCCURRING AT THE BEGINNING OF THE PERIOD. THE PREDICTED MAGNETIC STORM FOR 4 AUG HAS YET TO ARRIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY SHOULD BE UNSETTLED TO QUIET PENDING AN EXPECTED INCREASE TO ACTIVE OR MINOR STORM EARLY IN THE FORECAST PERIOD. THE PREDICTED MAG STORM FROM THE M3/1B FLARE OF 1 AUG MAY YET ARRIVE.

III. EVENT PROBABILITIES 05 AUG-07 AUG

CLASS M 50/40/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 AUG 133

PREDICTED 05 AUG-07 AUG 127/124/118

90 DAY MEAN 04 AUG 134

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 AUG 017/018

ESTIMATED AFR/AP 04 AUG 010/015

PREDICTED AFR/AP 05 AUG-07 AUG 028/020-015/015-012/015