

HFUS 1 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 140

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 20 MAY 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE. THIS ASSESSMENT IS BASED ON X-RAY AND RADIO DATA AS WEATHER AND EQUIPMENT PROBLEMS HAVE SEVERELY RESTRICTED OBSERVATIONS. HOWEVER, SO FAR THIS U.T. DAY, TWO CLASS M X-RAY BURST AND NUMEROUS CLASS C X-RAY BURST HAVE BEEN OBSERVED. VERY LIMITED VIEWING BY HOLLOMAN AND BRIEF REPORTS FROM MC MATH AND MARSHALL SPACE FLIGHT CENTER INDICATE THAT THE DISK IS BASICALLY UNIMPRESSIVE.

IB. IT IS SPECULATED THAT REGION 1743, BEHIND THE NORTHWEST LIMB, IS RESPONSIBLE FOR MOST OF THE ACTIVITY TODAY. THAT BEING THE CASE, M-CLASS ACTIVITY SHOULD CEASE OVER THE NEXT FEW HOURS. CONTINUED DEVELOPMENT IN NEW REGION 1761 (S2 IE37) WILL MAKE IT A CANDIDATE FOR ENERGETIC ACTIVITY IN THE NEAR FUTURE.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE. GENERALLY UNSETTLED TO ACTIVE CONDITIONS SHOULD PERSIST FOR THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 21 MAY - 23 MAY

CLASS M: 25/25/25

CLASS X: 01/01/01

PROTON: 01/01/01

PCAF: GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED: 20 MAY 153

PREDICTED: 21-23 MAY 150/148/148

90-DAY MEAN: 20 MAY 181

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG: 19 MAY 20

ESTIMATED AFR/AP: 20 MAY 16/24

PREDICTED AFR/AP: 21-23 MAY 15/24 - 20/38 - 15/30

SOLTERWARN

BT