

HFUS 1 B OU 162200

FROM SPACE ENVIRONMENT SERVICE CENTER BOULDER, COLO

SDF NUMBER 107

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 15 APRIL 1980

I.A. SOLAR ACTIVITY HAS BEEN MODERATE TO LOW WITH ONLY ONE CLASS M1 EVENT IN REGION 2389 (N18W05). THE SPOTS THERE HAVE DECAYED TO CLASS B BUT WITH CONTINUED COMPLEX FORM AND HIGH MAGNETIC GRADIENT. GROWTH HAS ACCELERATED IN REGION 2393 (S27W03) BUT THE SPOT GROUP HAS NOT YET FORMED PENUMBRA. SPOT DECAY HAS OCCURRED IN ALL OTHER REGIONS. COMPLEX FIELDS IN REGION 2377 (S08W36) HAVE RELAXED. RADIO DATA INDICATE NO SIGNIFICANT ACTIVITY NEAR EAST LIMB. MAJOR ERUPTIVE PROMINENCES WERE OBSERVED AT N35E90 (15/2215Z), N22W90 (16/1620Z) AND S65W90 (16/1620Z).

I.B. SOLAR ACTIVITY IS EXPECTED TO DROP TO A LOW LEVEL FOR THE NEXT THREE DAYS UNLESS SIGNIFICANT NEW SUNSPOTS FORM IN EITHER REGION 2377 OR 2389. CLASS C EVENTS WILL BEGIN IN REGION 2393 AND DIMINISH ELSEWHERE.

II. THE GEOMAGNETIC FIELD WAS ACTIVE EARLY TODAY AND UNSETTLED TO QUIET THEREAFTER. QUIET CONDITIONS WILL CONTINUE INTO THE EARLY PART OF TOMORROW WITH UNSETTLED TO ACTIVE CONDITIONS RESUMING BY MIDDAY, CONTINUING FOR THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 17 - 19 APRIL

CLASS M 60/50/40

CLASS X 05/02/02

PROTON 05/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 APR 191

PREDICTED 17 - 19 APR 184/179/176

90-DAY MEAN 16 APR 191

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 15 APR 15

ESTIMATED AFR/AP 16 APR 10/17

PREDICTED AFR/AP 17 - 19 APR 12/18 15/15 14/15

SOLIERWARN

BT