

HFUS 1 BOU 162200

FROM SPACE ENVIRONMENT SERVICE CENTER BOULDER, COLO

SDF NUMBER 107

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 16 APRIL 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE TO LOW WITH ONLY ONE CLASS
MI 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).

IB. 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 A 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