

HFUS 1 BOUL 132200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 103

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 13 APRIL 1979

IA. SOLAR ACTIVITY HAS BEEN LOW THE PAST 24 HOURS WITH ONLY LOW LEVEL CLASS C X-RAY BURSTS. REPORTED SUBFLARES HAVE OCCURRED IN FIVE OF THE EIGHT REGIONS CONTAINING SUNSPOTS. REGION 1684 (N04E23) REMAINS MAGNETICALLY COMPLEX WITH AN INTERESTING SUNSPOT STRUCTURE BUT REMAINS VERY DEFICIENT IN H-ALPHA STRUCTURE. REGIONS 1681 (N19W15), 1689 (N29E40), AND 1692 (S24E38) HAVE INCREASED IN SUNSPOT STRUCTURE DURING THE PAST 24 HOURS. NO NEW REGIONS HAVE APPEARED TODAY.

IB. SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY LOW WITH ISOLATED CLASS M ACTIVITY POSSIBLE. HOWEVER, MAJOR RESTRUCTURING OF REGION 1684 OR SUSTAINED GROWTH IN ONE OF THE OTHER REGIONS WILL BE REQUIRED TO MAINTAIN A MODERATE LEVEL OF SOLAR ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE. THE FIELD IS EXPECTED TO BE ACTIVE ON 14 AND 15 APRIL AS EARTH COMES UNDER THE INFLUENCE OF A HIGH SPEED STREAM ASSOCIATED WITH A CORONAL HOLE. THE EXISTENCE OF THE HIGH WIND SPEED IS SUBSTANTIATED BY INTERPLANETARY SCINTILLATION MEASUREMENTS.

III. EVENT PROBABILITIES 14-16 APR

CLASS M 50/50/50

CLASS X 10/10/10

PREDICTED 01/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 APR 175

PREDICTED 14-16 APR 176/178/179

90-DAY MEAN 13 APR 197

V. GEOMAGNETIC AL INDICES

OBSERVED FREDERICKSBURG 12 APR 09

ESTIMATED AFR/AP 13 APR 13/14

PREDICTED AFR/AP 14-16 APR 20/20 - 22/25 - 13/14

SOLTERWARN

BT