

HFUS 1 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 063

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 04 MARCH 1979

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. EVENTS CONSISTED OF C-CLASS X-RAY BURSTS FROM SUBFLARES. REGION 1591 (S18W40) HAD THE MOST ACTIVITY WITH FOUR, THE LARGEST A C2/SN AT 1541Z MAXIMUM. REGION 1596 (S19W76) HAD TWO SUBFLARES, THE LARGEST A C2/SN MAXING AT 1149Z. REGION 1606 ALSO PRODUCED A SMALL FLARE. SEVERAL NEW REGIONS HAVE BEEN REPORTED TODAY. REGION 1607 (S14W27) AN A TYPE, 1608 (S18W14) A B TYPE, 1609 (N16E16) AN A TYPE, 1610 (N17E46) A B TYPE, AND 1611 (S16W19) AN A TYPE. ARCH FILAMENTS HAVE BEEN REPORTED IN REGIONS 1591, 1603 (N36W15), AND 1606 (N12E48). NOTE: WHAT FIRST APPEARED TO BE TRAILERS IN NEW REGION 1607 ARE ACTUALLY LEADER POLARITY SPOTS AND NUMBERED NEW REGION 1611.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST PERIOD. REGIONS 1591 AND 1595 ALONG WITH THE NORTHEAST COMPLEX, ARE CAPABLE OF SIGNIFICANT ACTIVITY.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE DURING THE PAST 24 HOURS. UNSETTLED CONDITIONS WILL PERSIST THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 05 - 07 MARCH

CLASS M 75/80/80

CLASS X 20/20/20

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 MARCH 184

PREDICTED 05-07 MARCH 188/192/195

90-DAY MEAN 04 MARCH 196

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG

ESTIMATED AFR/AP

PREDICTED AFR/AP

SOLTERWAR N

BT

03 MARCH 00

04 MARCH 15/21

05-07 MARCH 13/15 10/10 08/08