

HFUS 1 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 119

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 APRIL 1979

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 1711 (N14E32) HAD A C8/SN FLARE AT 0732 UT AND A C9/SN FLARE AT 1605 UT AND SEVERAL OTHER SUBFLARES. THE REGION IS STABLE EXCEPT FOR POSSIBLE INTERACTION WITH REGION 1716 (N11E37). REGION 1716 HAS BEEN STABLE AND HAD A SUBFLARE AT 1606 UT. REGION 1705 (N18W16) IS DECAYING. WHILE STILL AN F-TYPE GROUP, ITS LEADER SPOT SEEMS TO BE BREAKING UP AND ITS TRAILER PENUMBRA IS MUCH LESS. IT HAD SEVERAL SUBFLARES. REGION 1710 (N23E15) HAS SHOWN DECAY AND IS NOW A C-TYPE GROUP. THERE HAS BEEN SOME MOUND ACTIVITY AT SE27. THE REST OF THE DISK/LIMB HAS BEEN QUIET.

IB. SOLAR ACTIVITY SHOULD BE LOW TO MODERATE. REGION 1711 HAS THE GREATEST POTENTIAL FOR SIGNIFICANT FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN AT MINOR STORM LEVELS, CAUSED BY THE X1 FLARE OF APRIL 27. ACTIVE TO MINOR STORM CONDITIONS ARE EXPECTED TO CONTINUE THROUGH THE NIGHT INTO TOMORROW, WITH ACTIVE CONDITIONS FOR THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 30 APRIL - 02 MAY

CLASS M 90/90/90

CLASS X 30/30/30

PROTON 25/25/25

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 APRIL 182

PREDICTED 30 APRIL - 02 MAY 184/184/184

90-DAY MEAN 29 APRIL 190

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 28 APRIL 24

ESTIMATED AFR/AP 29 APRIL 30/50

PREDICTED AFR/AP 30 APRIL - 02 MAY 26/44 - 20/44 - 18/34

SOLTERWARN

BT