

HFUS 1 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 120

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 30 APRIL 1979

IA. ALTHOUGH FLARE ACTIVITY HAS BEEN LOW, THREE REGIONS ON THE DISK POSSESS THOSE CHARACTERISTICS USUALLY ASSOCIATED WITH FLARE PRODUCTION. THE LARGEST OF THESE, REGION 1711 (N14E19), HAS A DELTA CONFIGURATION IN ITS TRAILING PORTIONS AND APPEARS TO BE MERGING WITH REGION 1716 (N12E25). SIGNIFICANT GROWTH IS OCCURRING ON THE PATCH OF PENUMBRA BETWEEN THE LEADER AND TRAILER AND THE PLAGE IN THAT AREA HAS BEEN FLARING AND NEAR FLARE BRIGHT ALL DAY. THE SECOND PROMISING CANDIDATE IS REGION 1705 (N18W29) WHICH ALSO HAS A DELTA CONFIGURATION AND BRIGHT, FLUCTUATING PLAGE. REGION 1707 (S23W15) IS GROWING RAPIDLY AND DOPPLER SHIFTED FEATURES WERE OBSERVED THERE EARLIER TODAY. A NEW REGION, 1717 (S25E75) HAS ROTATED ONTO THE DISK AND, THUS FAR, IS DISPLAYING AN "H" TYPE SPOT. FAINT PLAGE EXTENDS FROM THIS REGION TO THE LIMB. A SMALL GROUP 1718 (S33E14) WAS BORN ON THE DISK SINCE YESTERDAY. THE REST OF THE DISK IS RELATIVELY QUIET.

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correct*

IB. SOLAR ACTIVITY IS EXPECTED TO INCREASE SLIGHTLY AS A RESULT OF THE BEHAVIOR MENTIONED ABOVE.

II. THE GEOMAGNETIC FIELD SHOULD REMAIN ACTIVE WITH POSSIBLE MINOR STORM CONDITIONS IN NIGHT TIME SECTORS.

III. EVENT PROBABILITIES 01 MAY - 03 MAY

CLASS M 9.2/90/90

CLASS X 35/40/50

PROTON 30/35/40

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 APRIL 186

PREDICTED 01-03 MAY 185/184/183

90-DAY MEAN 30 APRIL 190

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 29 APRIL 31

ESTIMATED AFR/AP 30 APRIL 25/33

PREDICTED AFR/AP 01-03 MAY 18/38 - 16/44 - 11/21

SOLTERWARN

BT