

HFUS 1 BOU 301400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 181B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 30 JUNE 1974

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE LAST 24 HOURS WITH ALL ACTIVITY FROM REGION 433 (S10E43). THIS REGION HAS PRODUCED NUMEROUS X-RAY CLASS C SUBFLARES DURING THE LAST 24 HOURS, AND AT 30/0712Z, A SMALL IB FLARE WAS OBSERVED, ACCOMPANIED BY AN M1 X-RAY EVENT, SHORT WAVE FADES, AND A SMALL RADIO BURST AT CENTIMETRIC WAVELENGTHS (17 FU AT 2695 MHZ). SINCE THIS TIME, NO FLARES HAVE BEEN OBSERVED, BUT THE PLAGE HAS SHOWN FREQUENT FLUCTUATIONS TO NEAR FLARE INTENSITY. THE REGION CONTAINS AN E TYPE SPOT GROUP WITH TWO DELTA CONFIGURATIONS, AND THE PRESENCE OF ARCH FILAMENT SYSTEMS IN THE CENTRAL AND TRAILING PORTIONS SUGGESTS CONTINUED GROWTH. REGION 435 (S10W00) HAS NOW SLOWED ITS GROWTH AND CONTAINS A DULL, STABLE PLAGE.

IB. SOLAR ACTIVITY SHOULD CONTINUE MODERATE WITH A GOOD CHANCE OF ADDITIONAL CLASS M ACTIVITY FROM REGION 433.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE DURING THE LAST 24 HOURS. A TREND TOWARD QUIET CONDITIONS IS EXPECTED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 30 JUN - 02 JUL

CLASS M 80/80/80

CLASS X 10/10/10

PROTON 02/03/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 JUN 89

PREDICTED 30 JUN - 02 JUL 94/98/100

90-DAY MEAN 29 JUN 88

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 28 JUN 24

ESTIMATED AFR/AP 29 JUN 16/22

PREDICTED AFR/AP 30 JUN - 02 JUL 15/21 - 08/12 - 06/09

SOLTERWARN

SPAN

BT

HFUS BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 181

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 30 JUN 1974

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE LAST 24 HOURS. MOST OF THE ACTIVITY HAS OCCURRED IN REGION 433 (S13E41) WHICH PRODUCED SEVERAL SUBFLARES AND A SMALL IB AT 30/0712Z. THIS LATTER FLARE WAS ACCOMPANIED BY AN M3 X-RAY EVENT AS MEASURED BY VELA, SHORT WAVE FADES, AND A SMALL CENTIMETRIC RADIO BURST (17 FU AT 2695 MHZ). WHITE LIGHT GROWTH CONTINUES THROUGHOUT THE REGION WHICH NOW CONTAINS AN E TYPE SPOT GROUP WITH A COMPLEX BETA-GAMMA-DELTA MAGNETIC CONFIGURATION. AN EXTENSIVE ARCH FILAMENT SYSTEM SUGGESTS CONTINUED GROWTH. REGION 435 (S10W05) HAD SLOWED ITS GROWTH EARLIER, BUT NOW APPEARS TO BE GROWING AT A MODERATE RATE IN BOTH WHITE LIGHT AND H ALPHA. THREE SMALL SUBFLARES WERE OBSERVED FROM THIS REGION DURING THE LAST 6 HOURS. THE 1-8 ANGSTROM X RAY LEVEL AS MEASURED BY GOES CONTINUES RELATIVELY HIGH WITH FREQUENT FLUCTUATIONS.

IB. THERE IS A GOOD CHANCE OF ADDITIONAL ENERGETIC EVENTS FROM REGION 433. SINCE THIS REGION IS LOCATED ON THE EASTERN HALF OF THE DISK, THE CHANCE OF A PROTON EVENT AT THE EARTH IS RELATIVELY SMALL, AT LEAST DURING THE EARLY PART OF THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE LAST 24 HOURS, BUT THE PRESENT DISTURBANCE SHOULD SUBSIDE THROUGH THE FORECAST PERIOD WITH QUIET CONDITIONS EXPECTED BY 03 JULY.

III. EVENT PROBABILITIES 01 JUL - 03 JUL

CLASS M 80/80/80

CLASS X 20/20/20

PROTON 03/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 JUN 90

PREDICTED 01 JUL-03 JUL 93/94/96

90-DAY MEAN 30 JUN 89

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 29 JUN 18

ESTIMATED AFR/AP 30 JUN 17/20

PREDICTED AFR/AP 01 JUL-03 JUL 12/15 - 08/09 - 06/07

SOLTERWARN

SPAN

BT