

HFUS 1 BOU 1622 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 106

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 16 APRIL 1979

IA. SOLAR ACTIVITY HAS BEEN GENERALLY LOW DURING THE PAST 24 HOURS. FEWER SMALL FLARES WERE SEEN TODAY ALTHOUGH REGION 1684 (N04W19) PRODUCED A C5/1B FLARE WITH A MAXIMUM AT 16/1651Z IN THE AREA WELL TO THE WEST OF THE MAIN SPOT GROUP. (THIS AREA WAS INCORRECTLY IDENTIFIED AS WELL TO THE EAST OF THE LARGE SPOT IN YESTERDAY'S MESSAGE.) THE FLARE OCCURRED IN AND AROUND AN ISOLATED PIECE OF TRAILER POLARITY FLARE WHOSE FIELD STRENGTH HAS DIMINISHED TODAY. REGION 1684 ALSO PRODUCED A C5/SB IN THIS SAME AREA AT 16/1200Z WITH MINOR ASSOCIATED SHORT WAVE FADES AND SMALL CENTI-METRIC RADIO BURSTS. REGION 1689 (N28E01) IS CURRENTLY BRIGHTEST ON THE DISK BUT HAS PRODUCED ONLY ONE C-CLASS SUBFLARE TODAY. REGION 1692 (S23W02) NOW APPEARS STABLE AND HAS BEEN QUIET DURING THE PAST 24 HOURS. REGION 1695 (N34W46) HAS GROWN TO A D-CLASS SPOT GROUP IN THE 24 HOURS SINCE IT WAS FIRST SEEN. THREE NEW REGIONS HAVE APPEARED TODAY: REGION 1696 (N12W08), REGION 1697 (N10E03) AND REGION 1698 (N07E80) WHICH IS OLD REGION 1649 RETURNING.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. AGAIN TODAY THERE SEEMS TO BE SLIGHT OVERALL WEAKENING OF THE H-ALPHA FLARE ON THE DISK. CONTINUED DEVELOPMENT IN REGION 1689 WILL EVENTUALLY LEAD TO ENERGETIC FLARE PRODUCTION. REGION 1684 CONTINUES TO DECLINE SLOWLY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO QUIET DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE GENERALLY MILDLY UNSETTLED FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 17 - 19 APRIL

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 15/15/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 APRIL 172

PREDICTED 17-19 APRIL 174/174/174

90-DAY MEAN 16 APRIL 196

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 APRIL 15

ESTIMATED AFR/AP 16 APRIL 13/17

PREDICTED AFR/AP 17-19 APRIL 11/15 10/13 10/12

SOLTERWARN

BT