

HFUS 3 BOU 080600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 098A

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 08 APRIL 1978

IA. SOLAR ACTIVITY WAS HIGH TO MODERATE DURING THE PAST EIGHT HOURS WITH REGION 1057 (N20W13) PRODUCING A SLOW-RISE, LONG LIVED X-1 X-RAY EVENT WHICH BEGAN AT 08/0123Z AND ENDED AT 08/0309Z. THE EVENT WAS ACCOMPANIED BY MODERATE RADIO ACTIVITY WHICH INCLUDED A TYPE IV SWEEP BURST, 260 F.U. BURST AT 2695 MHZ, AND A 600 F.U. BURST AT 8800 MHZ. STRONG SWF'S ALSO ACCOMPANIED THIS EVENT. THE FLARE WITH THIS EVENT WAS REPORTED AS A IN AND OB. OTHER DISK REGIONS WERE STABLE

IB. SOLAR ACTIVITY SHOULD BE MODERATE TO POSSIBLY HIGH DURING THE REST OF THE FORECAST PERIOD AS REGION 1057 REMAINS VERY COMPLEX

II. THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST EIGHT HOURS AND SHOULD REMAIN SO THROUGH THE REST OF THE ZULU DAY. HIGH ENERGY PROTONS ARE EXPECTED IN THE VICINITY OF THE EARTH NEAR 08/0700Z AS A RESULT OF THE X-1 X-RAY EVENT NOTED IN PART IA. ALSO, PCA SHOULD BEGIN NEAR 08/0900Z

III. EVENT PROBABILITIES 08-10 APR

CLASS M 80/80/80

CLASS X 30/40/40

PROTON 30/40/40

PCAF RED

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 APR 147

PREDICTED 08-10 APR 146/145/142

90-DAY MEAN 07 APR 133

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 06 APR 08

ESTIMATED AFR/AP 07 APR 04/05

PREDICTED AFR/AP 08-10 APR 07/08 - 12/15 - 18/20

SOLTERWARN

BT

HFUS 3 BOU 081500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 098-B

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 08 APR 1978

IA. SOLAR ACTIVITY HAS BEEN AT A MODERATE LEVEL SINCE THE 08/0123Z
X-1 FLARE IN REGION 1057 (N21W16). SEVERAL SMALL M EVENTS HAVE
BEEN OBSERVED SINCE THAT TIME, HOWEVER, NO ASSOCIATED OPTICAL FLARES
HAVE BEEN REPORTED. THE X-RAY LEVELS FROM THE 08/0123Z EVENT
ARE NOW JUST RETURNING TO BACKGROUND. SMALL FLARES HAVE ALSO
BEEN REPORTED FROM REGIONS 1059 (N21W60) AND 1069 (S33E65). A NEW
REGION MAY BE APPROACHING THE N.E. LIMB IN THE AREA OF OLD
1034 AND 1035.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE. ADDITIONAL EVENTS
FROM 1057 AND POSSIBLY 1059, 1069, AND THE NE LIMB AREA ARE EXPECTED

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO REMAIN
SO THRU THIS UT DAY. FLARE INDUCED ACTIVITY MAY RESULT IN DISTURBED
CONDITIONS LATER IN THE PERIOD. PARTICLES FROM THE 08/0123Z EVENT
HAVE NOT YET BEEN DETECTED.

III. EVENT PROBABILITIES 08 - 10 APR

CLASS M 80/80/80

CLASS X 30/40/40

PROTON 30/40/40

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 APR 147

PREDICTED 08 - 10 APR 147/148/149

90-DAY MEAN 07 APR 133

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 06 APR 08

ESTIMATED AFR/AP 07 APR 04/05

PREDICTED AFR/AP 08 - 10 APR 07/08 - 12/15 - 18/20

SOLTERWARN

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HFUS 1 BOU 082200

C O R R E C T E D C O P Y

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 098

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0200Z 08 APRIL 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE OVER THE PAST 24 HOURS. THE MOST SIGNIFICANT EVENT WAS AN X-1 FLARE FROM REGION 1057 (N20W19) AT 08/0123Z. CLASS M EVENTS OCCURRED AT 08/0803Z AND 08/1119Z BUT WITH NO CORRESPONDING OPTICAL REPORTS. CLASS C EVENTS HAVE BEEN OBSERVED ABOUT 1/HOUR. REGION 1057 RETAINS ITS CAPABILITY FOR ENERGETIC EVENTS. AN ISOLATED POLE IS PRESENT IN THE TRAILER. REGION 1070 (N15E77) IS REPORTED AS D-TYPE AND HAS PRODUCED C-CLASS EVENTS. SMALL FLARES HAVE BEEN REPORTED IN 1064 (S28E20) AND 1059 (N20W63). AFS HAS BEEN REPORTED IN REGIONS 1067 (N33W35) AND 1059. SPOTS HAVE APPEARED IN 1072 (S28E18) AND 1071 (N18W11).

IB. ADDITIONAL ENERGETIC ACTIVITY IS EXPECTED FROM REGIONS 1057 AND 1070. CLASS M EVENTS SHOULD BE OCCURRING AT A RATE OF ABOUT 1/DAY WITH FREQUENT C FLARE ACTIVITY. REGIONS 1057 AND 1070 SHOULD BE MONITORED FOR ACTIVITY AND CHANGES.

II. THE GEOMAGNETIC FIELD CONTINUES TO BE QUIET, HOWEVER, A MAGNETIC DISTURBANCE RESULTING FROM ACTIVITY IN 1057 SHOULD BEGIN AROUND 09/1200Z. THE EXPECTED PARTICLE AND PCA EVENTS HAVE NOT BEEN OBSERVED AND ARE NO LONGER FORECAST

III. EVENT PROBABILITIES 09 APRIL - 11 APRIL

CLASS M 80/80/80

CLASS X 40/40/40

PROTON 40/40/40

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 APRIL 148

PREDICTED 09-11 APRIL 150/152/154

90-DAY MEAN 08 APRIL 134

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 07 APRIL 04

ESTIMATED AFR/AP 08 APRIL 04/06

PREDICTED AFR/AP 09-11 APRIL 15/15 - 18/18 - 20/20

SOLTERWARN

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