

HFUS 1 BOU 210600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 052A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 21 FEB 1974

IA. SOLAR ACTIVITY CONTINUES AT A MODERATE LEVEL. REGION 352
(S17W42) PRODUCED A IN CLASS C4 X-RAY FLARE AT 20/2322Z AND,
SUBSEQUENTLY, TWO SUBFLARES.

IB. REGION 352 IS EXPECTED TO CONTINUE PRODUCING OCCASIONAL
ENERGETIC ACTIVITY FOR AT LEAST THE NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD BECAME ACTIVE AT 21/0200Z WHEN A
BOULDER K-INDEX OF 5 WAS RECORDED. THIS RECURRENT DISTURBANCE IS
EXPECTED TO PERSIST FOR 48 TO 72 HOURS.

III. EVENT PROBABILITIES 21-23 FEB

CLASS M 35/30/20

CLASS X 03/02/01

PROTON 02/02/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 FEB 84

PREDICTED 21-23 FEB 82/80/78

90-DAY MEAN 20 FEB 84

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 FEB 03

ESTIMATED AFR/AP 20 FEB 08/09

PREDICTED AFR/AP 21-23 FEB 22/28 - 22/28 - 20/24

SOLTERWARN

SPAN

BT

HFUS BOU 211400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 052B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 21 FEB 1974

IA. SOLAR ACTIVITY REMAINS LOW TO MODERATE WITH ALL FLARES OCCURRING
IN REGION 352 (S17W46). A IN (2322Z) AND A SN (0045Z) WERE
BOTH LOW LEVEL CLASS C X-RAY EVENTS. A NEW REGION (S16W30)
IS EMERGING APPROXIMATELY 8 DEGREES EAST OF REGION 348. MINOR
SURGES ARE OCCURRING N15 EAST LIMB.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW TO MODERATE,
WITH X-RAY EVENTS UP TO LOW LEVEL CLASS M PROBABLE.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. IT IS EXPECTED TO
REMAIN ACTIVE, WITH SHORT PERIODS DISPLAYING STORM CONFIGURATION,
FOR THE BALANCE OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 21 - 23 FEB

CLASS M 35/30/20

CLASS X 03/02/01

PROTON 02/02/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 FEB 84

PREDICTED 21 - 23 FEB 82/80/78

90-DAY MEAN 20 FEB 84

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 FEB 03

ESTIMATED AFR/AP 20 FEB 09/10

PREDICTED AFR/AP 21 - 23 FEB 27/37 - 23/29 - 26/35

SOLTERWARN

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HFUS BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 052

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 21 FEB 1974.

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE, WITH RGN 352 (S18W51)
CONTINUING TO PRODUCE FREQUENT CLASS C SUBFLARES AND NOW CLASSIFIED
AS A TYPE E SPOT GROUP WITH A DELTA MAGNETIC CONFIGURATION IN
THE LARGE TRAILER. A SUB-BRIGHT FLARE IN RGN 352 AT 1314Z PRODUCED
A SMALL CENTIMETRIC RADIO BURST. A NEW REGION 354 (S16W37) HAS
EMERGED AS A SMALL BIPOLAR SPOT GROUP WITH ARCH FILAMENTS, BUT NO
SUBFLARES HAVE OCCURRED HERE. REGION 348 (S19W41) HAS UNDERGONE
CONSIDERABLE DECAY.

IB. REGION 352 IS CAPABLE OF CLASS M OR LOW CLASS X X-RAY EVENTS,
AND FREQUENT SUBFLARES ARE EXPECTED TO CONTINUE.

II. THE GEOMAGNETIC FIELD HAS BEEN STRONGLY ACTIVE SINCE 0130Z IN
CONCURRENCE WITH RECURRENT SECTOR STRUCTURE. AN ACTIVE FIELD SHOULD
PERSIST FOR THE NEXT 72 HOURS. THERE IS A SLIGHT CHANCE OF A FLARE
INDUCED PROTON EVENT AND GEOMAGNETIC DISTURBANCE SHOULD A MAJOR
EVENT OCCUR IN RGN 352.

III. EVENT PROBABILITIES 22-24 FEB

CLASS M 35/30/30

CLASS X 05/03/02

PROTON 03/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 FEB 84

PREDICTED 22-24 FEB 82/80/78

90-DAY MEAN 21 FEB 84

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 FEB 06

ESTIMATED AFR/AP 21 FEB 20/24

PREDICTED AFR/AP 22-24 FEB 22/28 - 20/24 - 16/18

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