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HFUS 1 BOU 180600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 049A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 18 FEBRUARY 1974

IA. SOLAR ACTIVITY HAS BEEN VERY LOW DURING THE PAST EIGHT HOURS.

THE REGIONS ON THE DISK AND THE LIMBS HAVE BEEN QUIET. DEKAMETRIC
CONTINUUM RADIO BURSTS WERE OBSERVED DURING DAYLIGHT HOURS IN
BOULDER, IN THE RANGE 20-40 MHZ.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO QUIET DURING THE
PAST 24 HOURS AND IS EXPECTED TO REMAIN THE SAME THE NEXT 24 HOURS.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

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HFUS 1 BOU 181400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 049B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1400Z 18 FEBRUARY 1974

I.A. SOLAR ACTIVITY HAS REMAINED VERY LOW DURING THE PAST 8 HOURS, AND ONLY ONE SUB-FAINT FLARE HAS BEEN REPORTED. THIS SUBFLARE OCCURRED AT 18/0920Z IN REGION 352 AT S18W08. REGION 352 HAS CONTINUED TO DEVELOP IN WHITE LIGHT AND IN H-ALPHA ALSO. THIS REGION CONTAINS ENHANCED PLAGE, ARCH FILAMENTS, AND A CONTORTED MAGNETIC NEUTRAL LINE. REGION 347 /S17W62/ HAS EXHIBITED CONTINUED FILAMENT ACTIVITY AND HAS DEVELOPED IN BOTH WHITE LIGHT AND IN H-ALPHA. REGION 349 /S13W90/ HAS PRODUCED OCCASIONAL MINOR SURGES DURING ITS PRESENT PASSAGE OVER THE WEST LIMB. OTHER REGIONS HAVE REMAINED QUIET AND UNIMPRESSIVE.

I.B. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THE REMAINDER OF THE FORECAST PERIOD. REGIONS 352 AND 347 ARE SUFFICIENTLY DYNAMIC TO PRODUCE SPORADIC SMALL FLARES, A FEW OF THEM PERHAPS APPROACHING CLASS-M INTENSITY.

II. THE GEOMAGNETIC FIELD HAS REMAINED VERY QUIET DURING THE PAST 8 HOURS. QUIET CONDITIONS ARE EXPECTED TO CONTINUE UNTIL 20 OR 21 FEB, WHEN A RECURRENT MINOR STORM IS EXPECTED TO BEGIN.

III. EVENT PROBABILITIES 18-20 FEB

CLASS M 40/40/35

CLASS X 05/05/03

PROTON 01/01/01

PCAF GREEN

IV. OTIAWA 10.7 CM FLUX

OBSERVED 17 FEB 88

PREDICTED 18-20 FEB 84/82/81

90-DAY MEAN 17 FEB 84

V. GEOMAGNETIC A-INDICES

OBSERVED FREDERICKSBURG 16 FEB 05

OBSERVED AFR/AP 17 FEB 07/08

PREDICTED AFR/AP 18-20 FEB 04/05 06/07 15/17

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HFUS BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 049

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 18 FEB 1974

IA. SOLAR ACTIVITY CONTINUES AT A PREDOMINANTLY LOW LEVEL.
THERE ARE THREE REGIONS WITH SPOTS CURRENTLY VISIBLE, AND TWO HAVE
PRODUCED INTERMITTENT SMALL FLARES. THE LARGEST FLARE, A C-5
BY VELA, ORIGINATED IN REGION 347 (S17W67), WITH TIME OF
MAXIMUM BEING 1823Z. THE EVENT WAS ACCCOMPANIED BY SMALL CENTI-
METRIC BURSTS, AND MODERATE DEKAMETRIC TYPE III ACTIVITY.
THIS REGION, WHILE IN A STATE OF DECLINE, RETAINS SOME ENERGETIC
POTENTIAL. REGION 352 (S18W14), RESPONSIBLE FOR THE REMAINDER OF
THE FLARES, REMAINS BASICALLY UNCHANGED, WITH A COMPLEX ENSEMBLE
OF SPOTS STILL APPARENT. REGION 348 (S19W00) CONTINUES TO DECLINE.
MINOR SURGES HAVE BEEN NOTED AT WEST LIMB WITH THE TRANSIT OF REGION
349 (S13). DEKAMETRIC CONTINUUM HAS BEEN RECORDED SINCE APPROX.
1700Z. THE EAST LIMB HAS BEEN QUIET.

IB. SOLAR ACTIVITY SHOULD REMAIN LOW THROUGHOUT THE FORECAST
PERIOD. REGIONS 347 AND 352 WILL CONTINUE TO GENERATE INTERMITTENT
SUBFLARES. M-CLASS EVENTS ARE ALSO POSSIBLE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. IT IS EXPECTED
TO BECOME GRADUALLY MORE DISTURBED, WITH A RECURRENT MINOR STORM
DUE LATE ON 20 FEB, OR EARLY THE 21ST.

III. EVENT PROBABILITIES 19 - 21 FEB

CLASS M 40/35/30

CLASS X 05/04/03

PROTON 03/02/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 FEB 90

PREDICTED 19 - 21 FEB 89/87/⁸⁴

90-DAY MEAN 18 FEB 84

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 FEB 07

ESTIMATED AFR/AP 18 FEB 02/03

PREDICTED AFR/AP 19 - 21 FEB 05/06 - 14/16 - 25/33

SOLTERWARN

SPAN

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