

HFUS 1 BOU 170600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 321A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 17 NOVEMBER 1974

IA. SOLAR ACTIVITY HAS BEEN VERY LOW DURING THE PAST 8 HOURS. ONE
NON-ENERGETIC SUBFLARE WAS OBSERVED IN REGION 524 (N14E60). SMALL
SPOT OBSERVED INDEPENDENTLY BY FOUR OBSERVATORIES BETWEEN 0800 AND
1400 U.T. ON NOVEMBER 16, 1974 AT APPROXIMATELY N37W70. THE HIGH
LATITUDE OF THE SPOT IMPLIES MEMBERSHIP IN NEW CYCLE 21. ON NOVEMBER
15, 1974 KITT PEAK OBSERVATORY REPORTED REVERSED POLARITY FOR
ASSOCIATED PLAGE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THE NEXT 24
HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 8 HOURS
AND IS EXPECTED TO REMAIN UNSETTLED DURING THE NEXT 8 HOURS.

III. EVENT PROBABILITIES - NO CHANGE

IV. OTTAWA 10.7 CM FLUX - NO CHANGE

V. GEOMAGNETIC A INDICES - NO CHANGE

SOLTERWARN

BT

HFUS BOU 171445

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER ~~2175~~ 3216

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1430Z 17 NOV 1974

IA. SOLAR ACTIVITY CONTINUES VERY LOW. REGION 524 (N14E55)
CONTAINS AN E TYPE SPOT GROUP AND IS GROWING SLOWLY IN BOTH WHITE
LIGHT AND H ALPHA. THIS REGION PRODUCED A SUBFLARE AT 17/0222Z,
AND ITS PLAGE CONTINUES TO SHOW POINT BRIGHTENINGS TO NEAR FLARE
INTENSITY. SPOTS ARE NO LONGER VISIBLE IN THE NEW CYCLE REGION 526,
ALTHOUGH PLAGE IS STILL VISIBLE AT N37W86 AND SOME MINOR SURGING
HAS BEEN OBSERVED AS THE REGION APPROACHES THE LIMB. THIS REGION
PRODUCED A 0N, X-RAY CLASS C2 FLARE AT 16/2250Z.

IB. SINCE REGION 524 DOES NOT APPEAR TO HAVE ANY SIGNIFICANT
MAGNETIC COMPLEXITY, THE PROBABILITY OF AN ENERGETIC EVENT REMAINS
RELATIVELY LOW.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE DURING
THE LAST 24 HOURS. THE DISTURBANCE SHOULD SUBSIDE SLOWLY, BUT
GENERALLY ACTIVE CONDITIONS ARE EXPECTED THROUGH THE FORECAST
PERIOD.

III. EVENT PROBABILITIES 17 - 19 NOV.

CLASS M 10/10/10

CLASS X 03/03/03

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 NOV 84

PREDICTED 17 NOV - 19 NOV 87/89/90

90-DAY MEAN 16 NOV 90

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 NOV 08

ESTIMATED AFR/AP 16 NOV 17/18

PREDICTED AFR/AP 17 NOV - 19 NOV 18/21 - 15/18 - 11/15

SOLTERWARN

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HFUS BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 321

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 17 NOV 1974

IA. SOLAR ACTIVITY CONTINUES VERY LOW. A SMALL SPOT (REGION 524)
WAS OBSERVED INDEPENDENTLY BY FOUR OBSERVATORIES BETWEEN 0800 AND
1400 U.T. ON NOV 16, 1974 AT APPROXIMATELY N37W70. THE HIGH LATITUDE
OF THE SPOT IMPLIES MEMBERSHIP IN NEW CYCLE 21. ON NOV 15, KITT
PEAK OBSERVATORY REPORTED REVERSED POLARITY FOR ASSOCIATED PLAGE.
THIS WAS CONFIRMED BY MT WILSON ON 16 NOV. THIS REGION PRODUCED A
0N, X-RAY CLASS C2 FLARE AT 2250Z, 16 NOV. SMALL SURGES WERE RE-
PORTED AT NW37 AS THE REGION ROTATED OVER THE LIMB.

REGION 524 (N14E51) CONTAINS AN E TYPE SPOT GROUP BUT HAS A SIMPLE
BETA MAGNETIC CONFIGURATION. THIS REGION PRODUCED A SMALL SUBFLARE
AT 17/0222Z, BUT HAS BEEN RELATIVELY QUIET SINCE THEN.

IB. THERE IS ONLY A SMALL CHANCE OF A CLASS M EVENT DURING THE NEXT
3 DAYS FROM REGION 524. OLD REGION 520 IS DUE TO RETURN AT SE11
ON 19 NOV. THIS REGION PRODUCED AN X CLASS FLARE ON 05 NOV
BEFORE ROTATING OVER THE LIMB THE NEXT DAY. IF THIS REGION HAS
REMAINED ACTIVE, SOME INCREASE IN SOLAR ACTIVITY CAN BE EXPECTED
BY THE END OF THE PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE LAST 24
HOURS AND SHOULD REMAIN UNSETTLED FOR THE NEXT 2 DAYS, BECOMING
ACTIVE ON 20 NOV.

III. EVENT PROBABILITIES 18 NOV - 20 NOV

CLASS M 10/12/15

CLASS X 03/03/04

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 NOV 87

PREDICTED 18 NOV - 20 NOV 89/90/92

90-DAY MEAN 17 NOV 90

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 16 NOV 17

ESTIMATED AFR/AP 17 NOV 09/13

PREDICTED AFR/AP 18 - 20 NOV 10/11 - 10/11 - 20/24

SOLTERWARN

BT