

NNNN

KBOU

HFUS 1 BOU 100600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 100A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 10 APRIL 1974

IA. SOLAR ACTIVITY HAS DROPPED TO A VERY LOW LEVEL DURING THE PAST EIGHT HOURS, AND ONLY TWO SUBNORMAL FLARES HAVE BEEN REPORTED.

BOTH OF THESE EVENTS OCCURRED IN REGION 375 (S13E12), WHERE DEVELOPMENT HAS CONTINUED IN WHITE LIGHT AND H-ALPHA. ACCORDING TO DATA FROM THE KITT PEAK MAGNETOGRAPH, AN ISOLATED REGION OF TRAILER POLARITY HAS EMERGED IN THE CENTER OF THE MAIN LEADER PLAGE IN THE WESTERN PART OF REGION 375. CHANGING ABSORPTION FEATURES, ARCH FILAMENTS, AND FLUCTUATING PLAGE HAVE BEEN OBSERVED RECENTLY IN THIS REGION. OTHER REGIONS HAVE REMAINED RELATIVELY UNIMPRESSIVE.

IB. REGION 375 IS EXPECTED TO CONTINUE TO GROW DURING THE NEXT EIGHT HOURS, AND THIS ADDITIONAL DEVELOPMENT IS EXPECTED TO LEAD TO THE PRODUCTION OF SPORADIC SUBFLARES. A FEW OF THESE ANTICIPATED FLARES MAY APPROACH CLASS M INTENSITY.

II. THE GEOMAGNETIC FIELD HAS EXHIBITED ACTIVE CONDITIONS SINCE ABOUT 10/0100Z. GENERALLY UNSETLED CONDITIONS ARE LIKELY DURING THE REMAINDER OF THE THREE-DAY FORECAST PERIOD.

III. EVENT PROBABILITIES NO CHANGE

IV. OTTAWA 10.7 CM FLUX NO CHANGE

V. GEOMAGNETIC A INDICES NO CHANGE

SOLTERWARN

SPAN

BT

KBOU K
HFUS BOU 101400
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 100B
JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 10 APRIL 1974

IA. FLARE ACTIVITY IS INCREASING WITH RAPID DEVELOPMENT OF REGION 375 (S13E08). SUNSPOTS HAVE GROWN 3X SINCE 09/2100Z WITH A DELTA CONFIGURATION NOW PRESENT IN A STRONG FOLLOWER SPOT. COMPLEX MAG FEILDS ALSO EXIST NEAR LEADER. REGION IS COMPOSITE TWO DEVELOPING SPOT GROUPS. CORONAL ARCH CONNECTS THIS POSITION WITH REGION 379 (S18E28) WHERE ASSOC FILAMENTS ARE ACTIVE. REGION 375 PRODUCED SB/C8 FLARE AT 0711Z. REGION 377 (S04W22) HAS GROWN SLIGHTLY BUT REMAINS SIMPLE MAGNETICALLY.

IB. CLASS M FLARES ARE IMMINENT WITH CLASS X EVENTS NOW POSSIBLE. FURTHER DEVELOPMENT OF REGION 375 IS EXPECTED.

II. GEOMAGNETIC CONDITIONS HAVE BEEN ACTIVE. UNSETTLED CONDITIONS SHOULD CONTINUE BUT SLIGHTLY LESS ACTIVE NEXT THREE DAYS AS A SECTOR BOUNDARY IS APPROACHING EARTH. NEAR-STROM CONDITIONS EXPECTED AFTER THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 10-12 APRIL

CLASS M 80/90/95

CLASS X 07/15/15

PROTON 01/02/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 APRIL 88

PREDICTED 10-12 APRIL 100/103/104

90-DAY MEAN 09 APRIL 81

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 APRIL 12

OBSERVED AFR 09 APRIL 12/13

PREDICTED AFR/AP 10-12 APRIL 15/17 - 12/13 - 8/9

SOLTERWARN

SPAN

BT

HFUS BOU. 102200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 100
JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 200Z 10 APRIL 1974

IA. SOLAR ACTIVITY HAS REMAINED LOW WITH ONLY OCCASIONAL SUBFLARES AND SURGES IN LARGE REGION 375 (S12E03). SPOT GROWTH CONTINUES WITH ENLARGEMENT/COALESCENCE OF LEADER SPOTS. MAGNETIC FIELD CONTINUES COMPLEX IN BOTH NORTH CENTRAL AND SE SECTIONS OF 375. RATE OF EMERGING FIELDS DIMINISHING. MINOR GROWTH AND INCREASINGLY COMPLEX FIELDS IN SMALL REGION 377 (S04W29).

IB. ACTIVITY MAY CONTINUE ONLY AT PRESENT LEVEL AS REGION 375 SIMPLIFIES AND CREATES LARGE SYMMETRIC LEADER SPOT NEXT TWO DAYS. POSSIBILITY OF ADDITIONAL NEW EMERGING FIELDS IN REGIONS 375, 377, 379 (S15E20) HOLDS CLASS-M FLARE PROBABILITY UP FOR THIS PERIOD.

II. GEOMAGNETIC CONDITIONS CONTINUE UNSETTLED TO ACTIVE. RECURRENCE WOULD PREDICT DECLINING ACTIVITY, BUT EVOLVING SOLAR-INTERPLANETARY CONDITIONS MAY RESULT IN CONTINUED ACTIVITY AT OR ABOVE PRESENT LEVELS. AN INTERPLANETARY SECTOR BOUNDARY WILL PASS EARTH IN 4-5 DAYS.

III. EVENT PROBABILITIES 11-13 APRIL

CLASS M 80/80/80
CLASS X 02/04/04
PROTON 01/02/02
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 APRIL 95
PREDICTED 11-13 APRIL 95/95/93
90-DAY MEAN 10 APRIL, 81

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 09 APRIL 12
ESTIMATED AFR/AP 10 APRIL 16/20
PREDICTED AFR/AP 11-13 APRIL 12/13 - 8/9 - 8/9
SOLTERWARN
SPAN
BT

NNNN

KBOU

HFUS BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 100

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200Z 10 APRIL 1974

IA. SOLAR ACTIVITY HAS REMAINED LOW WITH ONLY OCCASIONAL SUBFLARES AND SURGES IN LARGE REGION 375 (S12E03). SPOT GROWTH CONTINUES WITH ENLARGEMENT/COALESCENCE OF LEADER SPOTS. MAGNETIC FIELD CONTINUES COMPLEX IN BOTH NORTH CENTRAL AND SE SECTIONS OF 375. RATE OF EMERGING FIELDS DIMINISHING. MINOR GROWTH AND INCREASINGLY COMPLEX FIELDS IN SMALL REGION 377 (S04W29).

IB. ACTIVITY MAY CONTINUE ONLY AT PRESENT LEVEL AS REGION 375 SIMPLIFIES AND CREATES LARGE SYMMETRIC LEADER SPOT NEXT TWO DAYS. POSSIBILITY OF ADDITIONAL NEW EMERGING FIELDS IN REGIONS 375, 377, 379 (S15E20) HOLDS CLASS-M FLARE PROBABILITY UP FOR THIS PERIOD.

II. GEOMAGNETIC CONDITIONS CONTINUE UNSETTLED TO ACTIVE. RECURRENCE WOULD PREDICT DECLINING ACTIVITY, BUT EVOLVING SOLAR-INTERPLANETARY CONDITIONS MAY RESULT IN CONTINUED ACTIVITY AT OR ABOVE PRESENT LEVELS. AN INTERPLANETARY SECTOR BOUNDARY WILL PASS EARTH IN 4-5 DAYS.

III. EVENT PROBABILITIES 11-13 APRIL

CLASS M 80/80/80

CLASS X 02/04/04

PROTON 01/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 APRIL 95

PREDICTED 11-13 APRIL 95/95/93

90-DAY MEAN 10 APRIL 81

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 09 APRIL 12

ESTIMATED AFR/AP 10 APRIL 16/20

PREDICTED AFR/AP 11-13 APRIL 12/13 - 8/9 - 8/9

SOLTERWARN

SPAN

BT