

HFUS 1 BOU 030600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 123A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 03 MAY 1974

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 8 HOURS, ALTHOUGH
THE DISK REMAINS IMPRESSIVE IN WHITE LIGHT.

IB. ACTIVITY IS EXPECTED TO BE MODERATE THROUGHOUT THE FORECAST
PERIOD AS GROWTH AND INTERACTION BETWEEN VISIBLE REGIONS CONTINUES.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE FOR THE PAST 10 HOURS.

ACTIVE CONDITIONS ARE EXPECTED TO PERSIST DURING LOCAL NIGHTTIME,
FOLLOWED BY A TREND TOWARD GENERALLY UNSETTLED CONDITIONS.

III. EVENT PROBABILITIES NO CHANGE

IV. OTTAWA 10.7 CM FLUX NO CHANGE

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 MAY 07

ESTIMATED AFR/AP 02 MAY 15/17

PREDICTED AFR/AP 03-05 MAY 23/29 - 15/17 - 10/11

SOLTERWARN

SPAN

BT

HFUS 1 BOU 031400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 123B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 03 MAY 1974

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST EIGHT HOURS.
ONLY A FEW SUBFLARES AND MINOR RADIO BURSTS HAVE BEEN REPORTED.
THE MOST ENERGETIC EVENT REPORTED WAS A CLASS C5 SUBNORMAL FLARE
IN REGION 392(S07E45) AT 03/0705Z. FEW SIGNIFICANT CHANGES IN
THE ACTIVE REGIONS NOW VISIBLE HAVE BEEN REPORTED. REGIONS 392,
393(S12E56), AND 395(S08E53) REMAIN DYNAMIC AND IMPRESSIVE IN
BOTH WHITE LIGHT AND H-ALPHA.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE DURING THE
REMAINDER OF THE FORECAST PERIOD. REGIONS 392, 393, AND 395
ARE EXPECTED TO PRODUCE OCCASIONAL SUBFLARES AND SPORADIC SMALL
CLASS M EVENTS.

II. ACTIVE GEOMAGNETIC CONDITIONS HAVE BEEN OBSERVED DURING THE
PAST EIGHT HOURS. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED TO
PREVAIL THROUGH THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 03 - 05 MAY

CLASS M 75/75/75

CLASS X 20/20/20

PROTON 05/08/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 MAY 114

PREDICTED 03 - 05 MAY 120/124/128

90-DAY MEAN 02 MAY 83

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 MAY 07

ESTIMATED AFR/AP 02 MAY 15/17

PREDICTED AFR/AP 03 - 05 MAY 23/29 - 15/17 - 10/11

SOLTERWARN

SPAN

BT

NNNN

KBOU

HFUS BOU 032225

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 123

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 03 MAY 1974

IA. SOLAR ACTIVITY HAS REMAINED GENERALLY LOW DURING THE PAST 24 HOURS. THE MOST ENERGETIC EVENT REPORTED CONSISTED OF A CLASS M2 SUB-BRILLIANT FLARE IN REGION 392 (S06E40) AT 03/1924Z. THIS FLARE WAS OF SHORT DURATION AND WAS ACCOMPANIED BY A RADIO BURST 50 FLUX UNITS ABOVE BACKGROUND AT 2695 MHZ. REGIONS 392, 393 (S12E52), AND 397 (N07W29) PRODUCED A TOTAL OF SEVEN CLASS C SUBFLARES DURING THE PERIOD 03/1737-1832Z; IT IS TEMPTING TO HYPOTHEZIZE THAT SOME OF THESE EVENTS MAY HAVE BEEN RELATED SOMEHOW. ACCORDING TO THE MOUNT WILSON OBSERVATORY THE SPOT GROUP OF REGION 392 NO LONGER CONTAINS A DELTA CONFIGURATION; HOWEVER, MAGNETOGRAPHIC DATA FROM KITT PEAK REVEAL ISOLATED AREAS OF TRAILING POLARITY MAGNETIC FIELDS SURROUNDED BY LEADING POLARITY FIELDS IN THE EASTERN PART OF THIS REGION. REGIONS 392, 393, AND 395 (S08E47) FORM A DYNAMIC COMPLEX OF INTERACTING MAGNETIC FIELDS. REGION 393 HAS A RELATIVELY SIMPLE BIPOLAR STRUCTURE, BUT THE PLAGE EAST OF THE NEUTRAL LINE FILAMENT IS RELATIVELY ENHANCED AND RETAINS A DYNAMIC APPEARANCE IN H-ALPHA AND CALCIUM-K. REGION 399 (S11E73), PROBABLY THE REMAINS OF OLD REGION 379, CONTAINS ONLY AN H-TYPE SPOT AND UNIMPRESSIVE PLAGE. REGION 397 HAS EMERGED RAPIDLY AND NOW CONTAINS A SMALL BIPOLAR SPOT GROUP ACCOMPANIED BY ARCH-FILAMENTS. OTHER REGIONS ARE RELATIVELY UNIMPRESSIVE. NUMEROUS TYPE-III DEKAMETRIC RADIO BURSTS HAVE BEEN OBSERVED K RECENTLY.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE DURING THE NEXT THREE DAYS. REGIONS 392, 393, AND 395 ARE EXPECTED TO PRODUCE MOST OF THE ACTIVITY. OCCASIONAL CLASS C AND SPORADIC CLASS M FLARES ARE EXPECTED, AND A CLASS X EVENT IS POSSIBLE. DEKAMETRIC RADIO EMISSION IS EXPECTED TO CONTINUE.

II. ACTIVE GEOMAGNETIC CONDITIONS HAVE BEEN OBSERVED DURING THE PAST 24 HOURS. GENERALLY UNSETTLED CONDITIONS ARE EXPECTED DURING THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 04-06 MAY

CLASS M 75/75/75

CLASS X 25/25/25

PROTON 08/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 MAY 114

PREDICTED 04-06 MAY 120/122/122

90-DAY MEAN 03 MAY 84

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 02 MAY 14

ESTIMATED AFR/AP 03 MAY 20/24

PREDICTED AFR/AP 04-06 MAY 15/17 - 10/11 - 10/11

SOLTERWARN K

SPAN

BT