

HFUS 3 BOU 190500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 292A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 19 OCTOBER 1977

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

ALL THE DISK REGIONS APPEAR STABLE. THE LIMBS ARE QUIET.

IB. SOLAR ACTIVITY WILL CONTINUE AT A VERY LOW LEVEL.

II. THE GEOMAGNETIC FIELD BECAME DISTURBED AND WAS AT MAJOR
STORM LEVEL AT 19/0245Z. IT IS EXPECTED THE FIELD WILL REMAIN AT
MINOR STORM LEVEL DURING THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 19 OCTOBER - 21 OCTOBER

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 OCTOBER 96

PREDICTED 19-21 OCTOBER 96/96/96

90-DAY MEAN 18 OCTOBER 92

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 OCTOBER 13

ESTIMATED AFR/AP 18 OCTOBER 19/33

PREDICTED AFR/AP 19-21 OCTOBER 35/45 - 20/28 - 10/12

SOLTERWARN

BT

HFUS 3 BOU 191500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 292-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 19 OCT 1977

IA. SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 12 HOURS. THE FOUR PRINCIPAL ACTIVE CENTERS ON THE VISIBLE SOLAR DISK ARE ALL SMALL AND INACTIVE. SIGNIFICANT GROWTH HAS OCCURRED DURING THIS PERIOD IN REGION 918 (S23E24) WHICH IS NOW A SMALL BUT SIMPLE TYPE D SPOT GROUP.

IB. SOLAR ACTIVITY WILL REMAIN VERY LOW WITH ONLY A SLIGHT INCREASE IN RADIO FLUX AND MINOR FLARE ACTIVITY AS REGION 918 CONTINUES SLOW GROWTH. SOLAR INDICES WILL DECREASE LATER IN THE FORECAST PERIOD AS REGIONS BEGIN WEST LIMB PASSAGE.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST 12 HOURS. ACTIVE CONDITIONS WITH BRIEF PERIODS OF STORM CONDITIONS ARE EXPECTED TO CONTINUE FOR THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 19 - 21 OCT

CLASS M 05/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 OCT 96

PREDICTED 19 - 21 OCT 102/98/94

90-DAY MEAN 18 OCT 92

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 OCT 13

ESTIMATED AFR/AP 18 OCT 19/33

PREDICTED AFR/AP 19 - 21 OCT 28/34 - 15/20 - 10/12

SOLTERWARN

BT

HFUS 1 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 292

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 19 OCTOBER 1977

IA. SOLAR ACTIVITY CONTINUES VERY LOW. REGION 918 (S25E18) HAS GROWN RAPIDLY TODAY AND IS NOW A LARGE CLASS D SPOT GROUP WITH BRILLIANT PLAGE AND LARGE, DARK LEADER SPOT. THE REGION IS INTRUDING UPON THE REMNANTS OF AN OLD REGION TO ITS WEST, WITH COMPLEX PLAGE AND FILAMENT ACTIVITY AT THE BOUNDARY OF ENCOUNTER. NEW GROWTH IN REGION 917 (N23W46) HAS DEVELOPED A STEEP MAGNETIC GRADIENT NEAR THE LEADER SPOT. THE BIRTH OF NEW REGION 920 (N23W66) IN THE MIDST OF THE REMNANTS OF REGIONS 911, 915 AND 916, TOGETHER WITH THE GROWTH OF REGION 917 NEARBY, PRESENTS THE ASPECT OF A DEVELOPING COMPLEX OF ACTIVITY THAT MAY BECOME IMPORTANT IN NOVEMBER.

IB. SOLAR INDICES AND FLARE ACTIVITY ARE EXPECTED TO RISE WITH THE CONTINUED GROWTH OF REGIONS 917, 918 AND 920 AND WITH THE RETURN OF IMPORTANT ACTIVE REGIONS TO NORTHEAST LIMB ON 21-22 OCTOBER. THE INTERACTION OF NEW REGIONS WITH SURROUNDING REMNANT REGIONS MAY LEAD TO IMPORTANT FLARES.

II. THE GEOMAGNETIC FIELD HAS BECOME UNSETTLED TO QUIET DURING THE PAST FIVE HOURS AFTER AN ACTIVE PREVIOUS 24 HOURS. QUIET TO UNSETTLED CONDITIONS ARE EXPECTED FOR THE ENTIRE FORECAST PERIOD.

III. EVENT PROBABILITIES 20 OCTOBER - 22 OCTOBER

CLASS M 40/60/70

CLASS X 05/07/10

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 OCTOBER 106

PREDICTED 20-22 OCTOBER 110/106/106

90-DAY MEAN 19 OCTOBER 93

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 OCTOBER 22

ESTIMATED AFR/AP 19 OCTOBER 24/35

PREDICTED AFR/AP 20-22 OCTOBER 15/20 - 10/12 - 10/12

SOLTERWARN

BT