

HFUS 1 BOU 171300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 290A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 17 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/1200Z TO 17/1200Z: SOLAR ACTIVITY REMAINS LOW. ONLY FOUR SMALL CLASS C EVENTS HAVE BEEN OBSERVED DURING THE PAST 24 HOURS. REGIONS 3950 (S07E19) AND 3946 (S09W67) WERE RESPONSIBLE FOR THESE EVENTS AND IT APPEARS THAT CLASS C ACTIVITY IS THE EXTENT OF THEIR CAPABILITIES. ALL OF THE VISIBLE DISK REGIONS ARE DECLINING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A LOW LEVEL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE. UNSETTLED TO ACTIVE CONDITIONS SHOULD CONTINUE AS THE FIELD REMAINS UNDER THE INFLUENCE OF A CORONAL HOLE.

III. EVENT PROBABILITIES 18 OCT-20 OCT

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 OCT 131

ESTIMATED 17 OCT 130

PREDICTED 18 OCT-20 OCT 132/133/134

90 DAY MEAN 16 OCT 160

V. GEOMAGNETIC A INDICES

OBSERVED AFR 15 OCT 006 AP 16 OCT 013

ESTIMATED AFR 16 OCT 015 AFR/AP 17 OCT 015/015

PREDICTED AFR/AP 18 OCT-20 OCT 015/015-015/020-012/020

SOLTERWARN

BT

HXUS BOU 171300

PRFDM 01018 01019 01020

PREDX 00118 00119 00120

PREDP 00118 00119 00120

PCAF 00118

TENCM 13218 13319 13420

AFRED 01518 01519 01220

AFAPF 01518 02019 02020

KKK 32343 32233 34433

BT

NNNNZCVZGVZLVZO UU

KBO U

HF US 3 BO U 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SF NUMBER 290B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 220Z 17 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/1200Z TO 17/2100Z: SOLAR ACTIVITY WAS LOW AGAIN THIS PERIOD. REGION 3950 (S07E13) REMAINS THE MOST DOMINANT GROUP ON THE DISK, BUT PRODUCED NO FLARES DURING THE NINE HOUR PERIOD. THIS REGION CONTINUES ITS SLOW GROWTH WITH A SMALL ARCH FILAMENT SYSTEM VISIBLE, BUT ITS OVERALL COMPLEXITY AND MAGNETIC GRADIENT HAVE WEAKENED SOMEWHAT SINCE YESTERDAY. REGIONS 3948 (N06W50) AND 3949 (N04W62) HAVE EACH PRODUCED ONE SUBFAINT FLARE DURING THE PERIOD. BOTH THESE REGIONS ARE DECLINING SLOWLY. TWO NEW REGIONS WERE NUMBERED TODAY, REGION 3952 (N16E04), A SIMPLE UNIPOLAR GROUP, AND 3953 (N16E21), A GROWING B-TYPE GROUP. EAST LIMB ACTIVITY HAS CONSISTED OF MINOR SURGING AT SE05 AND A SLIGHTLY ACTIVE LONG PROMINENCE AT SE27.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW. SEVERAL SMALL PREVIOUSLY ACTIVE REGIONS (LAST ROTATION) SHOULD BEGIN THEIR EAST LIMB ROTATION ON THE LAST DAY OF THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PERIOD. ACTIVE CONDITIONS ARE EXPECTED THROUGH THE NEXT 48 HOURS FOLLOWED BY A GRADUAL SETTLING OF THE FIELD ON THE THIRD DAY.

III. EVENT PROBABILITIES 18 OCT-20 OCT

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 OCT 131

PREDICTED 18 OCT-20 OCT 132/133/134

90 DAY MEAN 17 OCT 159

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 OCT 014/013

ESTIMATED AFR/AP 17 OCT 017/015

PREDICTED AFR/AP 18 OCT-20 OCT 015/015-015/020-012/020

SOLTERWAR N

BT

NNNSV