

HFUS 3 BOU 211400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDP NUMBER 356A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 21 DECEMBER 1980

IA. SOLAR ACTIVITY REMAINS LOW. A TOTAL OF SIX CLASS C X-RAY FLARES HAVE OCCURRED DURING THE PAST 24 HOURS. THE LARGEST EVENT WAS A C9/SN AT 20/1322Z IN REGION 2849 (S07E28). THE OTHER SIGNIFICANT EVENTS WERE A C4/1B AT 20/1706Z AND A C4/SB AT 20/2046Z, BOTH FROM REGION 2839 (S18W56). ARCH FILAMENT STRUCTURE HAS BEEN REPORTED IN SEVERAL REGIONS INDICATING SOME RESTRUCTURING/-GROWTH ON THE DISK. HOWEVER, THE DEARTH OF ACTIVITY THIS ZULU DAY SUGGESTS THAT NO REGIONS CURRENTLY HAVE SIGNIFICANT MAGNETIC GRADIENTS. SURGING HAS BEEN REPORTED NEAR S26E90.

IB. WITHOUT MEANINGFUL GROWTH IN THE DISK REGIONS, SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED WITH SHORT PERIODS OF ACTIVE CONDITIONS POSSIBLE 24 DECEMBER.

III. EVENT PROBABILITIES: 22-24 DEC

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 20 DEC 248

ESTIMATED 21 DEC 238

PREDICTED 22-24 DEC 232/227/222

90 DAY MEAN 21 DEC 213

V. GEOMAGNETIC A INDICES

OBSERVED AFR 19 DEC 43 AP 20 DEC 16

ESTIMATED AFR 20 DEC 16 AFR/AP 21 DEC 11/14

PREDICTED AFR/AP 22-24 DEC 08/12 08/12 12/12

SOLTERWARN

BT

HFUS 1 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 356B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200UT 21 DEC 1980

IA. SOLAR ACTIVITY REMAINS LOW. ONLY A TOTAL OF 3 CLASS C
X-RAY FLARES HAVE OCCURRED DURING THE PAST 24 HOURS. ARCH
FILAMENT STRUCTURE HAS BEEN REPORTED IN SEVERAL REGIONS IN-
DICATING SOME RESTRUCTURING/GROWTH ON THE DISK. HOWEVER, THE
DEARTH OF ACTIVITY THIS ZULU DAY SUGGESTS THAT NO REGIONS
CURRENTLY HAVE SIGNIFICANT MAGNETIC GRADIENTS. SURGING HAS
BEEN REPORTED NEAR S26E90.

ADDITIONS TO THE 21/1200Z MESSAGE: A SMALL NEW REGION 2854
(N29E65) HAS DEVELOPED AND IS GROWING SLOWLY.

IB. WITHOUT MEANINGFUL GROWTH IN THE DISK REGIONS, SOLAR
ACTIVITY IS EXPECTED TO REMAIN LOW.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE DURING
THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE GENERALLY UN-
SETTLED WITH SHORT PERIODS OF ACTIVE CONDITIONS POSSIBLE 24
DECEMBER.

III. EVENT PROBABILITIES: 22 DEC - 24 DEC

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 21 DEC 232 *222 210 202 195*

PREDICTED 22-24 DEC 219/212/208

90 DAY MEAN 21 DEC 213

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 DEC 18/16

ESTIMATED AFR/AP 21 DEC 15/14

PREDICTED AFR/AP 22-24 DEC 08/12 08/12 12/12

SOLTERWARN

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