

HFUS 3 BOU 070555

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 007A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 07 JANUARY 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 8 HOURS.  
SEVERAL SMALL C-CLASS SUBFLARES AND A 1N OPTICAL FLARE WERE  
OBSERVED IN REGION 967 (S19W65). THE OPTICAL EVENT OCCURRED  
DURING AN ANOMALOUS SLOW-RISING X-RAY BURST WHICH FIRST REACHED  
C2 LEVELS, THEN LATER REACHED C6 LEVELS. REGION 967 HAS SHOWN  
CONSIDERABLE GROWTH IN WHITE LIGHT AND ENHANCEMENT IN H-ALPHA  
IN RECENT HOURS. OTHER REGIONS ARE PRESENTLY QUIET, AS ARE THE  
LIMBS.

IB. THE DEVELOPMENT IN REGION 967 COMES AT A TIME WHEN THE  
REGION IS IDEALLY LOCATED TO CAUSE DIRECT GEOPHYSICAL EFFECTS.  
THE REGION IS CAPABLE OF PRODUCING AN M-CLASS X-RAY EVENT AND  
POSSIBLE PROTONS AT THE EARTH.

II. THE GEOMAGNETIC FIELD HAS BECOME QUIET DURING THE PAST 8  
HOURS. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED DURING  
THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 07 JANUARY - 09 JANUARY

CLASS M 30/40/30

CLASS X 10/15/10

PROTON 10/10/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 JANUARY 124

PREDICTED 07-09 JANUARY 124/124/118

90-DAY MEAN 06 JANUARY 100

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 05 JANUARY 21

ESTIMATED AFR/AP 06 JANUARY 24/24

PREDICTED AFR/AP 07-09 JANUARY 15/20 - 09/17 - 09/12

SOLTERWARN

BT

HFUS 3 BOU 071500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 007-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1500Z 07 JAN 1978

IA. SOLAR ACTIVITY WAS AT A MODERATE LEVEL DURING THE PAST NINE HOURS. ONE M-3 X-RAY EVENT (IN FLARE FROM REGION 967, S19W70) BEGAN AT 070633Z AND ENDED AT 070728Z WHILE A SECOND M-3 EVENT BEGAN AT 071149Z AND ENDED AT 1251Z. NO OPTICAL INFORMATION WAS AVAILABLE ON THE SECOND EVENT, AND NO RADIO DATA WAS RECEIVED ON EITHER OF THE TWO EVENT. SPARSE OPTICAL REPORTS INDICATE ENHANCED FLARE TO INTENSITY 4-5 IN REGION 967 WHILE OTHER REGIONS ARE QUIET.

IB. SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY MODERATE DURING THE REST OF THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST NINE HOURS. QUIET TO UNSETTLED CONDITIONS ARE EXPECTED DURING THE REMAINDER OF THE ZULU DAY.

III. EVENT PROBABILITIES 07 - 09 JAN

CLASS M 40/40/30

CLASS X 10/10/10

PROTON 15/15/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 JAN 124

PREDICTED 07 - 09 JAN 124/124/110

90-DAY MEAN 06 JAN 100

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 05 JAN 21

ESTIMATED AFR/AP 06 JAN 24/24

PREDICTED AFR/AP 07 - 09 JAN 10/12 - 09/17 - 09/12

SOLTERWARN

BT

HFUS 1 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 007

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 JAN 1978

IA. SOLAR ACTIVITY WAS MODERATE DURING THE PAST 24 HOURS. TWO M-3 X-RAY EVENTS (BEGIN TIMES, 07/0637Z AND 07/1208Z) AND SEVERAL C-CLASS EVENTS OCCURRED IN REGION 967 (S18W75). THE 0637Z EVENT AND A C7/0N EVENT (BEGIN TIME, 07/1905Z) PRODUCED 10 CM RADIO BURSTS OF 680 FU AND 610 FU, RESPECTIVELY. THE 1905Z EVENT PRODUCED A POST FLARE LPS OUT TO APPROXIMATELY .15 SOLAR RADIUS. TYPE II/III/IV BURSTS ACCOMPANIED A 1N/C3 FLARE FROM REGION 967 AT 07/0130Z. MOST OF THE X-RAY ACTIVITY DURING THE PAST 24 HOURS WAS CHARACTERIZED BY LONG RISE TO MAX AND LONG DECAY TIMES. OTHER ACTIVE REGIONS ON THE DISK PRODUCED NO SIGNIFICANT ACTIVITY.

IB. SOLAR ACTIVITY SHOULD BE LOW TO MODERATE DURING THE NEXT 24 HOURS. WITH THE DELTA MAGNETIC CONFIGURATION IN REGION 967, OCCASIONAL ENERGETIC X-RAY AND RADIO EVENTS REMAIN A GOOD POSSIBILITY.

II. THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED DURING THE PAST 24 HOURS. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED DURING THE NEXT 48 HOURS WITH FLARE-INDUCED ACTIVE TO MINOR STORM CONDITIONS EXPECTED ON 10 JAN.

III. EVENT PROBABILITIES 08 - 10 JAN

CLASS M 50/40/20

CLASS X 15/10/05

PROTON 20/15/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JAN 115

PREDICTED 08 - 10 JAN 112/108/106

90-DAY MEAN 07 JAN 100

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 06 JAN 26

ESTIMATED AFR/AP 07 JAN 08/09

PREDICTED AFR/AP 08 - 10 JAN 14/17 - 12/12 - 25/30

SOLTERWARN

BT