

HFUS 1 BOU 080600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 159A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 08 JUNE 1974

IA. SOLAR ACTIVITY CONTINUES AT A VERY LOW LEVEL. NO FLARES HAVE  
BEEN OBSERVED DURING THE PAST 8 HOURS AND ALL REGIONS APPEAR QUIET  
AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THE NEXT 24  
HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO REMAIN  
QUIET DURING THE NEXT 24 HOURS.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

SOLTERWARN

SPAN

BT

HXUS BOU 081400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 159B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1400Z 08 JUNE 1974

IA. SOLAR ACTIVITY HAS REMAINED VERY LOW DURING THE PAST 8 HOURS, AND NO FLARES OR SIGNIFICANT X-RAY BURSTS HAVE BEEN REPORTED. INTERESTING FILAMENT/PROMINENCE ACTIVITY HAS OCCURRED IN THE BUSHY FILAMENT MENTIONED IN SDF 158. THIS FILAMENT, WHICH HAD EXHIBITED CONSIDERABLE ACTIVITY, BEGAN TO LIFT AT ITS NORTHERN END AT ABOUT 08/0845Z. THE PORTION THAT HAD EXTENDED FROM S20W78 TO S04W90 PRIOR TO LIFTING WAS MOST AFFECTED, REACHING A HEIGHT OF .19 SOLAR RADIUS ABOVE THE LIMB BY 1300Z. NO FLARE, RADIO, OR X-RAY BURST ACCOMPANIED THIS ERUPTION. REGION 426 (N04E77) NOW CONTAINS A C-TYPE SPOT GROUP AND MODERATELY ENHANCED PLAGE. REGION 422 (S14W12) CONTAINS AN ARCH-FILAMENT SYSTEM AND HAS DEVELOPED A C-TYPE SPOT GROUP. OTHER REGIONS HAVE SHOWN LITTLE SIGNIFICANT CHANGE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW DURING THE REMAINDER OF THE FORECAST PERIOD. THE FILAMENT/PROMINENCE MENTIONED IN IA ABOVE MAY CONTINUE TO EXHIBIT UNUSUAL ACTIVITY, POSSIBLY ACCOMPANIED BY A FLARE.

II. THE GEOMAGNETIC FIELD HAS REMAINED QUIET, AND QUIET CONDITIONS PROBABLY WILL CONTINUE AT LEAST 24 HOURS.

III. EVENT PROBABILITIES 08 - 10 JUNE

CLASS M 30/20/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JUNE 90

PREDICTED 08 - 10 JUNE 86/81/76

90-DAY MEAN 07 JUNE 87

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 06 JUNE 07

ESTIMATED AFR/AP 07 JUNE 03/04

PREDICTED AFR/AP 08 - 10 JUNE 07/08 - 05/06 - 11/13

SOLTERWARN

SPAN

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KBOU

HFUS BOU 082220

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 159

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 08 JUNE 1974

IA. EXCEPT FOR THE ERUPTION OF A FILAMENT/PROMINENCE, SOLAR ACTIVITY HAS REMAINED VERY LOW DURING THE PAST 24 HOURS, AND NO FLARES HAVE BEEN REPORTED. THE FILAMENT THAT ERUPTED WAS THE LARGE, BUSHY ONE REFERRED TO IN SDF 158 AND WAS LOCATED AT S20W78-S04W90 AT 08/0733Z, WHEN IT BECAME VERY ACTIVE. BY 0845Z THE NORTHERN END OF THIS FILAMENT BEGAN TO LIFT, AND BY 0852Z MATERIAL WAS VISIBLE .15 SOLAR RADIUS BEYOND THE LIMB. THE MOST DYNAMIC PART OF THIS EVENT OCCURRED FROM 1240-1353Z, WITH THE ERUPTIVE PROMINENCE VISIBLE .35 SOLAR RADIUS BEYOND THE LIMB. A LARGE BRIGHT SURGE BELIEVED TO BE ASSOCIATED WITH THE ERUPTIVE FILAMENT/PROMINENCE OCCURRED AT S16W78 FROM 1258-1315Z. AFTER 1350Z CONSIDERABLE ACTIVITY OCCURRED ALONG THE FILAMENT NEAR S14W72, AND LONG PARALLEL RIBBONS OF ENHANCED PLAGE DEVELOPED ALONG BOTH SIDES OF THIS ACTIVE FILAMENT. THESE PLAGE RIBBONS REMAINED ENHANCED AND SLOWLY SPREAD APART FOR SEVERAL HOURS, AND BRIGHT POINTS OCCURRED AT SEVERAL PLACES ALONG THEM. WHILE THIS PLAGE ENHANCEMENT WAS NOT CLASSIFIED AS A FLARE, THE OVERALL PATTERN OF THIS EVENT RESEMBLED A VERY LARGE HYDER FLARE OF LOW INTENSITY. THE ENHANCEMENT OF THE PLAGE RIBBONS IS BELIEVED TO HAVE BEEN CAUSED BY MATERIAL FROM THE ERUPTIVE FILAMENT/PROMINENCE DUMPING BACK DOWN INTO THE CHROMOSPHERE AFTER THE ERUPTION. THE SOLAR FLUX AT CENTIMETRIC WAVELENGTHS BEGAN TO RISE AT 1333Z, REACHING A PEAK AT 1510Z. THIS ENHANCEMENT DECAYED VERY SLOWLY AND IS BELIEVED TO HAVE BEEN CAUSED BY THE PLAGE ENHANCEMENT MENTIONED ABOVE. NO X-RAY DATA IS AVAILABLE FOR THE PERIOD OF THE ERUPTION AND PLAGE ENHANCEMENT. THE VARIOUS REGIONS ON THE DISK HAVE SHOWN ONLY SLIGHT CHANGE. REGION 426 (N04E77) NOW CONTAINS A C-TYPE SPOT GROUP AND MODERATELY ENHANCED PLAGE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW DURING THE NEXT THREE DAYS. SPORADIC SUBFLARES ARE LIKELY TO OCCUR IN THE VARIOUS REGIONS SCATTERED OVER THE DISK.

II. THE GEOMAGNETIC FIELD HAS REMAINED QUIET DURING THE PAST 24 HOURS. QUIET CONDITIONS ARE LIKELY DURING THE NEXT 36-48 HOURS, AFTER WHICH A RECURRENT DISTURBANCE IS EXPECTED TO BEGIN.

III. EVENT PROBABILITIES 09-11 JUNE

CLASS M 25/20/20

CLASS X 02/02/02

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 JUNE 107 (ENHANCED - SEE IA ABOVE)

PREDICTED 09-11 JUNE 85/82/80

90-DAY MEAN 08 JUNE 87

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 07 JUNE 03

ESTIMATED AFR/AP 08 JUNE 06/07

PREDICTED AFR/AP 09-11 JUNE 05/06-11/12-25/33

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