

NNNN1722

NNNN

KMSC

PP KGFF

DE BOU 311715Z

HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 340A ISSUED 1700Z 31 JULY 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT SIX HOURS.

A. DEVELOPMENT IS APPARENT IN THE REGION AT S07E07. MAJOR GROWTH HAS OCCURRED IN THE SOUTHERN PORTION OF THIS REGION; IT IS POSSIBLE THAT THIS SPOT GROWTH REPRESENTS A NEW REGION, BUT UNTIL DEFINITIVE MAGNETOGRAPH DATA IS AVAILABLE, THE REGION IS CONSIDERED AS A UNIT. PRELIMINARY MAGNETIC MEASUREMENTS INDICATE SIMPLE STRUCTURE. IN CONTRAST, THE REGION'S APPEARANCE IN H-ALPHA IS MOST COMPLEX. THE SOUTHERN GROWTH IS ASSOCIATED WITH A RING-SHAPED PLAGE. ENCLOSED WITHIN THE RING IS A Y-SHAPED DARK STRUCTURE. THE SOUTHERN BRANCH OF THE Y IS IN ASSOCIATION WITH TWO BRIGHT PLAGE RIBBONS WHICH ARE PARALLEL. AT THE JUNCTION OF THE Y-BRANCHES AN ARCH FILAMENT SPANS THE Y STRUCTURE. THE AREA OF THE (COMPOSITE) REGION IS 1100 MILLIONTHS. THE 9 CM RADIO EMISSION FROM THIS REGION DOUBLED ITS CENTRAL TEMPERATURE YESTERDAY. ONLY INFREQUENT SUBFLARE ACTIVITY HAS BEEN REPORTED FROM THE REGION IN THE LAST 24 HOURS, ALTHOUGH FILAMENT ACTIVITY APPEARS TO HAVE INCREASED THIS MORNING. GROWTH IS ALSO APPARENT IN THE S12E66 REGION. PLAGE IN THIS REGION APPEARS COMPACT, GLOBULAR AND RELATIVELY UNSTRUCTURED. THE GEOMAGNETIC FIELD IS QUIET.

B. CLASS M FLARES ARE EXPECTED FROM S07E07 REGION. CLASS X FLARES MAY BE PROBABLE IF MAGNETIC COMPLEXITY BEARS OUT H-ALPHA IMPRESSION.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 31 JUL/1700Z ENDING 03 AUG/1700Z.

CLASS M OR GREATER 70/80/80

CLASS X 15/20/25

PROTON EVENTS 15/20/25

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 159.

E. N/A

F. KP ESTIMATED FOR 1200-1500Z WAS 02. KP FORECAST FOR NEXT 24 HOURS PER KP 15.3; 2/2/2/2/2/2/2.

SOLTERWARN

BT

KMSC PP KGFF

DE BOU 312345Z

HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 340B ISSUED 2300Z 31 JULY 1969

CLASS M FLARES ARE EXPECTED IN THE NEXT 18 HOURS.

A. THE REGION AT S07E02 IS REPORTED BY MOUNT WILSON TO CONTAIN TWO DELTA CONFIGURATIONS. CHANGES IN H-ALPHA CONFIGURATION THROUGHOUT THE DAY HAVE BEEN RELATIVELY SLOW CLN THE STRUCTURE AS DESCRIBED IN SDF 339A IS RELATIVELY UNCHANGED, ALTHOUGH THE NORTHERN PORTION OF THE PLAGE IS SOMEWHAT BRIGHTER. A NOISE STORM AT METER WAVELENGTHS BEGAN 31/1806Z. CENTRAL TEMPERATURE AND TOTAL FLUX FROM REGION HAVE INCREASED SUBSTANTIALLY IN STANFORD 9CM RADIO MAP. THE GEOMAGNETIC FIELD IS COMPARATIVELY QUIET, AND PROTON FLUXES AT SATELLITE HEIGHTS REMAIN AT BACKGROUND. PARTS B AND C ARE UNCHANGED FROM SDF 339A.

D. OTTAWA 10.7 CM FLUX AT 1700Z WAS 164. PREDICTED 180/190/200

E. MAGNETIC A-FREDERICKSBURG FOR 30 JUL WAS 10. FOR 31 JUL ABOUT 06 PREDICTED AP FOR 1-3 AUG, 5/5/5.

SOLTERWARN

BT