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KMSC

PP KGFF

DE BOU 191700Z

HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 389A ISSUED 1700Z 19 SEPTEMBER 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 12 HOURS

A. HIGHLIGHTS FOR THE PERIOD 11-18 SEPTEMBER 1969--

GEOPHYSICALLY SIGNIFICANT SOLAR ACTIVITY WAS CONFINED TO MCMATH
PLAGE REGIONS 304 /NEAR S32 AND 309 /S17W43/. THREE SMALL
CLASS M EVENTS OCCURRED IN REGION 304 /AT 12/1510Z, 13/0107Z, AND
15/0347Z/ BEFORE IT CROSSED WEST LIMB ON 15 SEPTEMBER. REGION
309, WHICH SHOWED VERY LITTLE CHANGE IN SPOT OR PLAGE CONFIGURATION,
PRODUCED A MEDIUM-SIZED M EVENT /IMP 28/ AT 15/1210Z AND THREE
SMALL M EVENTS /16/1124Z, 17/0935Z, AND 17/1858Z/ IN ADDITION TO
SEVERAL CLASS C FLARES OF OPTICAL IMPORTANCE ONE. ON 17 SEPTEMBER
THE DEVELOPMENT OF NEW SPOTS AND THE RESULTANT INCREASE OF MAGNETIC
COMPLEXITY IN THE LEADING PORTION OF REGION 317 /S04S17/ CAUSED A
SHARP RISE IN SUBFLARE ACTIVITY. MANY OF THESE FLARES WERE ACCCOMPANIED
BY DARK SURGES AND LARGE RADIO BURSTS AT METER WAVELENGTHS, BUT
THE CENTIMETER RADIO AND X-RAY BURSTS WERE SMALL. THERE IS NO SIGN
OF REGION 283 /NEAR N12/ WHICH WAS EXPECTED TO RETURN TO EAST LIMB
ON 17 SEPTEMBER; THIS REGION APPEARED TO HAVE MAJOR FLARE POTENTIAL
BUT PRODUCED ONLY SMALL CLASS M EVENTS ON ITS PREVIOUS DISK PASSAGE.
A MINOR GEOMAGNETIC DISTURBANCE OCCURRED 14-15 SEPTEMBER.

B. FORECAST FOR THE PERIOD 20-30 SEPTEMBER 1969--

THE RATE OF CLASS M ACTIVITY IS EXPECTED TO CONTINUE AT A LOW TO MODERATE RATE. NO MAJOR ENHANCEMENT OF ACTIVITY IS FORESEEN. EARLY IN THE PERIOD REGIONS 309 AND 317 ARE EXPECTED TO DOMINATE ACTIVITY WITH 317 GRADUALLY BECOMING THE MORE SIGNIFICANT OF THE TWO. OLD MCMATH REGION 289 /NEAR N10/, WHICH PRODUCED THREE SMALL M EVENTS ON ITS LAST DISK PASSAGE, SHOULD BEGIN ITS RETURN ON 21 SEPTEMBER. A SIGNIFICANT GEOMAGNETIC DISTURBANCE IS EXPECTED TO BE IN PROGRESS 20-21 SEPTEMBER.

28-DAY FORECAST FOR 20 SEPTEMBER-17 OCTOBER 1969--

THE LEVEL OF ACTIVITY IS EXPECTED TO SHOW A GRADUAL UPWARD TREND DURING THE NEXT 28 DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 19 SEP/1700Z ENDING 22 SEP/1700Z.

CLASS M OR GREATER 60/50/50

CLASS X 05/05/05

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 130. PREDICTED 132/136/140.

E. N/A.

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

SOLTERWARN

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DE BOU 192300Z

HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 389B ISSUED 2300Z 19 SEPT 1969

CLASS M FLARES ARE POSSIBLE DURING THE NEXT 18 HOURS.

A. ACTIVITY HAS AGAIN DROPPED TO A VERY LOW LEVEL. DISK REGIONS
HAVE BEEN STABLE IN H-ALPHA THE PAST 24 HOURS BUT ALL APPEAR
TO BE DECLINING SLOWLY IN WHITE LIGHT. THE REGION NEAR S04W30,
WHICH PRODUCED THE FLURRY OF SUBFLARES ON 17 SEPT, IS ONCE
AGAIN MAGNETICALLY SIMPLE. A SMALL PLAGE HAS ROTATED ONTO THE
DISK NEAR S30 BUT NO SPOTS ARE VISIBLE. THE GEOMAGNETIC FIELD IS
QUIET.

B. CLASS M ACTIVITY IS EXPECTED TO DECLINE FURTHER UNTIL NEW
REGIONS DEVELOP OR ROTATE ONTO THE DISK.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE
24 HOUR PERIODS BEGINNING 19 SEPT/2300Z ENDING 22/2300Z.

CLASS M OR GREATER 50/40/40

CLASS X 05/05/05

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUX AT 1700Z WAS 130.

E. MAGNETIC A-FREDERICKSBURG FOR 18 SEPT WAS 15. FOR 19 SEPT
ABOUT 10. PREDICTED AP FOR 20-22 SEPT, 24/15/09.

SOLTERWARN