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HFUS 1 BOU 200600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 171A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 20 JUNE 1974

IA. TWO SUBFLARES AND MODERATE FILAMENT ACTIVITY HAVE BEEN NOTED IN REGION 428 (S12W09) IN THE PAST EIGHT HOURS. THE NORTHERN PART OF THE LARGE EMBEDDED FILAMENT IN THAT REGION HAS DISAPPEARED. TYPE II SWEEP ACTIVITY ACCOMPANIED THE ACTIVITY. THE REMAINDER OF THE DISK REMAINS DULL.

IB. IF REGION 428 CONTINUES TO BE DYNAMIC, ENERGETIC EVENTS ARE POSSIBLE THERE.

II. THE GEOMAGNETIC FIELD REMAINS AT UNSETTLED TO ACTIVE LEVELS. THESE CONDITIONS WILL PERSIST THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES NO CHANGE

IV. OTTAWA 10.7 CM FLUX NO CHANGE

V. GEOMAGNETIC A INDICES NO CHANGE

SOLTERWARN

SPAN

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HFUS 1 BOU 201400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 171B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1400Z 20 JUNE 1974

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 428 (S12W13) HAS SHOWN SPOT  
DECAY AND MINOR FLUCTUATIONS. DARK FILAMENT THROUGH THIS REGION  
REMAINS ACTIVE. REST OF DISK IS UNINTERESTING.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. REGION 428 HAS A  
SLIGHT CHANCE OF PRODUCING AN ENERGETIC EVENT.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE AND IS EXPECTED TO BE  
ACTIVE TO UNSETTLED THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 20 JUNE - 22 JUNE

CLASS M 20/20/20

CLASS X 02/02/02

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 JUNE 80

PREDICTED 20 JUNE - 22 JUNE 80/81/82

90-DAY MEAN 19 JUNE 88

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 JUNE 10

ESTIMATED AFR/AP 19 JUNE 10/16

PREDICTED AFR/AP 20 JUNE - 22 JUNE 18/21 - 15/17 - 12/13

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DF NUMBER 171

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200 Z 20 JUNE 1974

IA. Solar activity has been very low during the last 24 hours. Region 428 (S13W24) produced 2 non-energetic subflares at 2210Z and 2240Z on 19 June. The latter flare was accompanied by the disappearance of the northern portion of the active filament through the region as well as type III and Type II Radio bursts at decametric wavelengths. A portion of this filament has since reformed. Plage in the region has been enhanced at times, but no flares have been reported this solar day. Spot decay continues with no trailer spots visible. The rest of the disk remains spotless and ~~is~~ uninteresting.

IB. Solar activity should continue very low with a few, non-energetic flares possible from region 428.

II. The geomagnetic field has been unsettled to active during the last 24 hours. Similar conditions should continue for the next 24 hours, becoming unsettled during the latter portion of the forecast period.

II. EVENT PROBABILITIES	21 JUN		- 23 JUN	
CLASS M	<u>10</u>	/	<u>10</u>	/
CLASS X	<u>01</u>	/	<u>01</u>	/
PROTON	<u>01</u>	/	<u>01</u>	/
PCAF	<u>GREEN</u>			

V. OTTAWA 10.7 CM FLUX	20 JUN		81	
OBSERVED				
PREDICTED	<u>21 JUN</u>	- <u>23 JUN</u>	<u>81</u>	/ <u>82</u> / <u>84</u>
90-DAY MEAN		<u>20 JUN</u>		<u>88</u>

GEOMAGNETIC A INDICES	19 JUN		11	
OBSERVED FREDERICKSBURG				
ESTIMATED $A_{FR}/A_p$	<u>20 JUN</u>		<u>13</u>	/ <u>19</u>
PREDICTED $A_{FR}/A_p$	<u>24 JUN</u>	- <u>23 JUN</u>	<u>15</u>	/ <u>17</u> - <u>12</u> / <u>13</u> - <u>12</u> / <u>13</u>

NOTE: A recent comparison between two years of Fredericksburg and Planetary Magnetic indices has shown that  $A_p$  appears higher than  $A_{FREDERICKSBURG}$ . Therefore, both indices will be included in future forecasts. Only extrapolated  $A_p$  values will be given since the computation and publication of the actual observed  $A_p$  values require approximately three months.