

AVIATION WEEK

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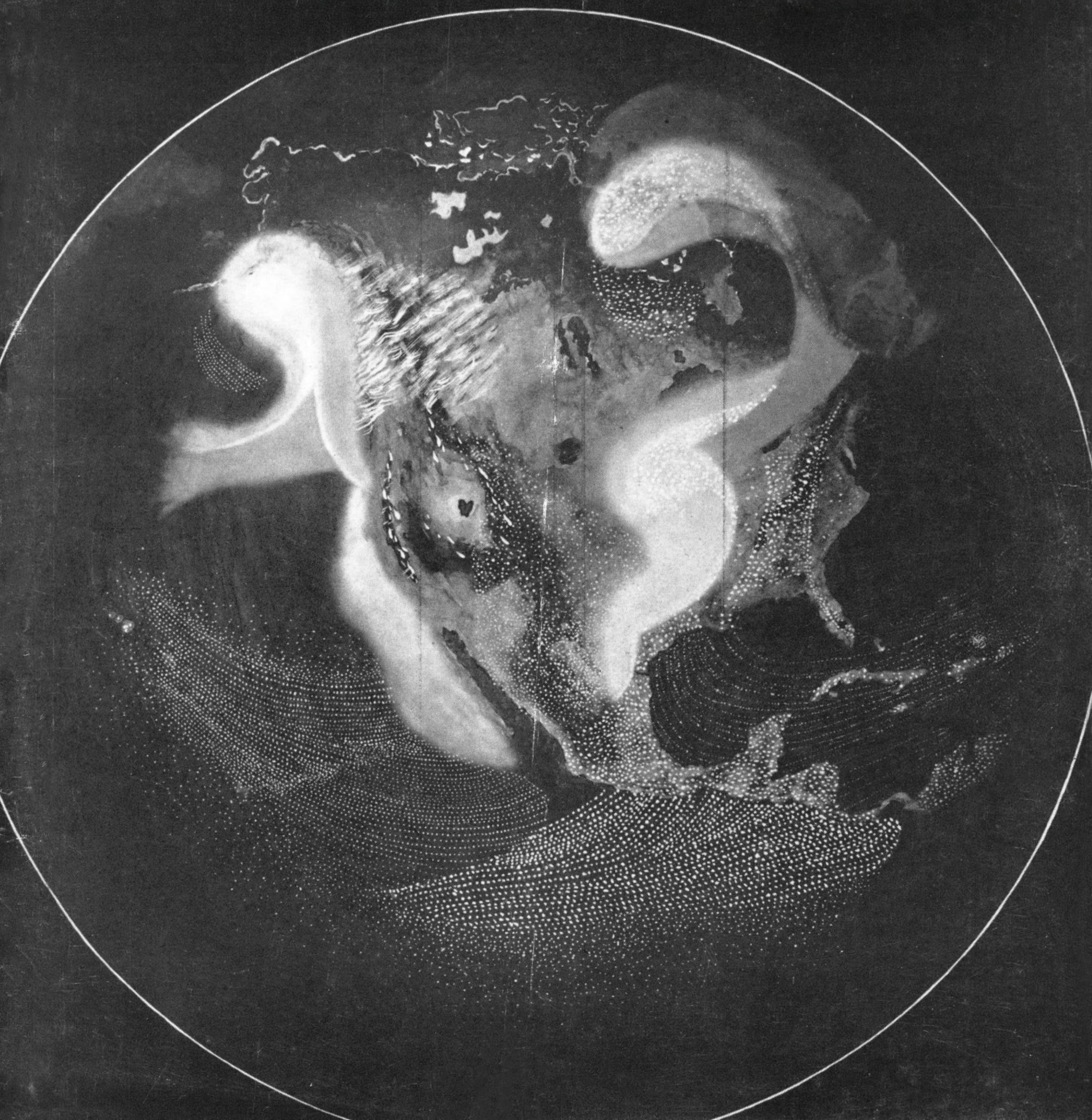
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X-15 Program

Probes Manned

Space Flight

TV Satellite's Weather Map



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▶ Inertial navigation system, thick blunt trailing edges are aids in exploration of new flight regime.

Capitol Puts 880 Near Breakeven Point..... 40

▶ Convair's financial guarantee in turn offers airline an answer to pressing fiscal, equipment problems.

Weightlessness Crucial Spaceman Factor..... 50

▶ Definition of space crew roles must wait until effects of prolonged weightlessness are better known.

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COVER: Weather map of North America as it would be transmitted by television from a satellite 4,000 mi. over Amarillo, Tex., was drawn by Dr. Harry Wexler, director of meteorological research, U. S. Weather Bureau. Surface features are drawn taking into account earth's normal colors, reflectivity of sunlight, scattering and depleting effects of light passing through the atmosphere, with calculated brightness of various cloud types. Weather features are a family of three cyclonic storms extending southwest from Hudson Bay to Texas; similar system over the bay of Alaska; small hurricane developing in normal trade wind cloud pattern just north of Puerto Rico; equatorial front-meeting zone of northeast and southeast trade winds—extending west of the Isthmus of Panama to mid-Pacific; line squall in the Eastern U. S.; scattered cumulus clouds over heated land areas; lenticular clouds usually found where the jet stream crosses mountains as over the northern Canadian rockies, and low stratus and fog off California coast, over the Great Lakes and in the Newfoundland area.

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