

Spacelab J - experimental descriptions

George C. Marshall Space Flight Center - Biosphere 2



Description: -

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Mines and mineral resources -- California.

Correctional law -- Spain.

Prisons -- Law and legislation -- Spain.

Christian saints -- Prayers and devotions -- French.

Anthony, -- of Padua, Saint, -- 1195-1231 -- Prayer-books and devotions.

Prayer.

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Notes: Includes bibliographical references.

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Spacelab

Crew members, through manipulation of the sound waves, were able to rotate, oscillate, merge, and even split drops. The window seals and structures had to be designed to be almost perfectly airtight, such that the air exchange would be extremely low, permitting tracking of subtle changes over time. However, it was used most often on Spacelab flights.

LSDA: Experiment

Poynter made Chris Helms, Director for the enterprise, aware of this. The crew worked to manage the CO₂ by occasionally turning on a , activating and de-activating the desert and savannah through control of irrigation water, cutting and storing biomass to , and utilizing all potential planting areas with fast-growing species to increase system photosynthesis. By studying drops in this manner, scientists have the opportunity to test basic fluid physics theories in the areas of nonlinear dynamics, capillary waves, and surface rheology changes in the form and flow of matter.

The Role of Passive Sounder Packages on Spacelab

The migration speed depends on the so-called Marangoni number, which is a function of the temperature difference, the bubble diameter, liquid viscosity, and thermal diffusivity.

Study of bubble behavior in weightlessness (effects of thermal gradient and acoustic stationary wave) (M

The Space Shuttle Columbia rocketed to orbit for the longest Shuttle flight in history. The mangrove area developed rapidly but with less than a typical possibly because of reduced light levels.

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Medical markers indicated the health of the crew during the two years was excellent. A second module, LM2, was bought by for its own use from ERNO.

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