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DATA ANNOUNCEMENT BULLETIN
National Aeronautics and Space Administration

NATIONAL SPACE SCIENCE DATA CENTER/
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 CODE 601

Goddard Space Flight Center . Greenbelt, Maryland 20771

VOYAGER 1 AND VOYAGER 2
JUPITER ENCOUNTER DATA

December 1980

The National Space Science Data Center (NSSDC) is now acquiring data from the investigations on the Voyager missions during the encounters with Jupiter. Close encounter for Voyager 1 occurred on March 5, 1979. Close encounter for Voyager 2 occurred on July 9, 1980. This Data Announcement Bulletin (DAB) is intended to inform you of the data now available from the Voyager missions.

Imaging

Press release photographs and Mission Test and Imaging Facility (MTIS) images from the encounters are available. Also available is a preliminary picture catalog index that was prepared at the Jet Propulsion Laboratory (JPL). We suggest that you obtain this picture catalog index from us for use in ordering images. A list of press release photographs has been prepared by NSSDC. The final Supplementary Experiment Data Record (SEDR) for the images will be received at NSSDC from the project within the next few months. Images can be provided as prints or transparencies.

Infrared Spectroscopy and Radiometry

Merged data tapes from the Jupiter encounters are available. These tapes contain the calibrated thermal emission spectra, radiometer output, housekeeping data, and navigation and pointing information. There are nine magnetic tapes from Voyager 1 and six magnetic tapes from Voyager 2.

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Triaxial Fluxgate Magnetometers

Summary tapes covering from one day before the first inbound bow shock crossing to one day after the last outbound bow shock crossing are available. These data are 1.92-, 9.6-, and 48-second magnetic field averages and their associated vector root-mean-square deviations in two coordinate systems. The averages were derived from the individual vector samples at 60 mw. Estimates of the spacecraft magnetic field are also on the tapes. There are 8 magnetic tapes from Voyager 1 and 13 magnetic tapes from Voyager 2.

Multifilter Photopolarimeter

Jupiter encounter data from Voyager 2 are available on one magnetic tape. The photopolarimeter on Voyager 1 did not return usable data due to a malfunction. There are three types of data: (1) North-south map--a full coverage map of Jupiter executed in 48 consecutive swaths from the northern limb to the southern limb along sub-spacecraft meridian; (2) Cloud Z--segments obtained for phase-angle coverage of the planet (several east-west map swaths are included); and (3) Ganymede coverage. Geometry information is merged with the data using the same spacecraft clock.

Planetary Radio Astronomy

Data from this experiment are available from Voyager 1 and 2 as high-band dynamic spectra plots and low-band dynamic spectra plots on microfilm. Data are also available on magnetic tape. The spectra plots consist of four panels. The first panel is the difference between panels three and four; the second panel is the total of panels three and four. Panel three is right hand polarization and panel four is left hand polarization. The plots consist of frequency versus time. The decalibrated frame-averaged millibel magnetic tapes contain housekeeping data as well as the averaged received power in millibels for the right- and left-hand channels. These data cover the period from launch through the end of 1979.

Radio Science

Radio science data on magnetic tape have recently been received by NSSDC. There are currently two data sets from each of the missions. The first two data sets consist of complex envelope occultation signals. There are 7 magnetic tapes for Voyager 1 and 20 magnetic tapes from Voyager 2. The second two data sets are merged occultation data of trajectory and radio frequency information, and both data sets are contained on the same reel of magnetic tape.

Availability of Data

NSSDC is still receiving data from the Jupiter encounter phase of the Voyager missions. The information contained in this DAB reflects the status of the NSSDC holdings as of the middle of December 1980. It should be noted that processing of the data is still underway. Additional data from the above experiments are being received constantly. Data from the other experiments are expected in the near future. Because of this, requesters are urged to

contact us for the latest information on data availability. Listed in the table are the Voyager experiments, the Principal Investigator or Team Leader, and the NSSDC ID. Please refer to the NSSDC ID when making inquiries about the data. An asterisk (*) indicates that at least some data are available.

List of Voyager Experiments

| Experiment (Principal Investigator or Team Leader) | NSSDC ID | |
|--|-------------|-------------|
| | Voyager 1 | Voyager 2 |
| Plasma Spectrometers (Bridge) | 77-084A-06 | 77-076A-06 |
| Ultra Violet Spectroscopy (Broadfoot) | 77-084A-04 | 77-076A-04 |
| Infrared Spectroscopy and Radiometry (Hanel) | 77-084A-03* | 77-076A-03* |
| Low Energy Charged Particle Analyzer and Telescope (Krimigis) | 77-084A-07 | 77-076A-07 |
| Multifilter Photopolarimeter (Lane) | | 77-076A-11* |
| Triaxial Fluxgate Magnetometers (Ness) | 77-084A-05* | 77-076A-05* |
| Plasma Wave (Scarf) | 77-084A-13 | 77-076A-13 |
| Imaging (Smith) | 77-084A-01* | 77-076A-01* |
| Radio Science (Tyler) | 77-084A-02* | 77-076A-02* |
| High- and Moderately Low-Energy Cosmic-ray Telescope (Vogt) | 77-084A-08 | 77-076A-08 |
| Planetary Radio Astronomy (Warwick) | 77-084A-10* | 77-076A-10* |

Researchers residing in the U.S. should direct inquiries to

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