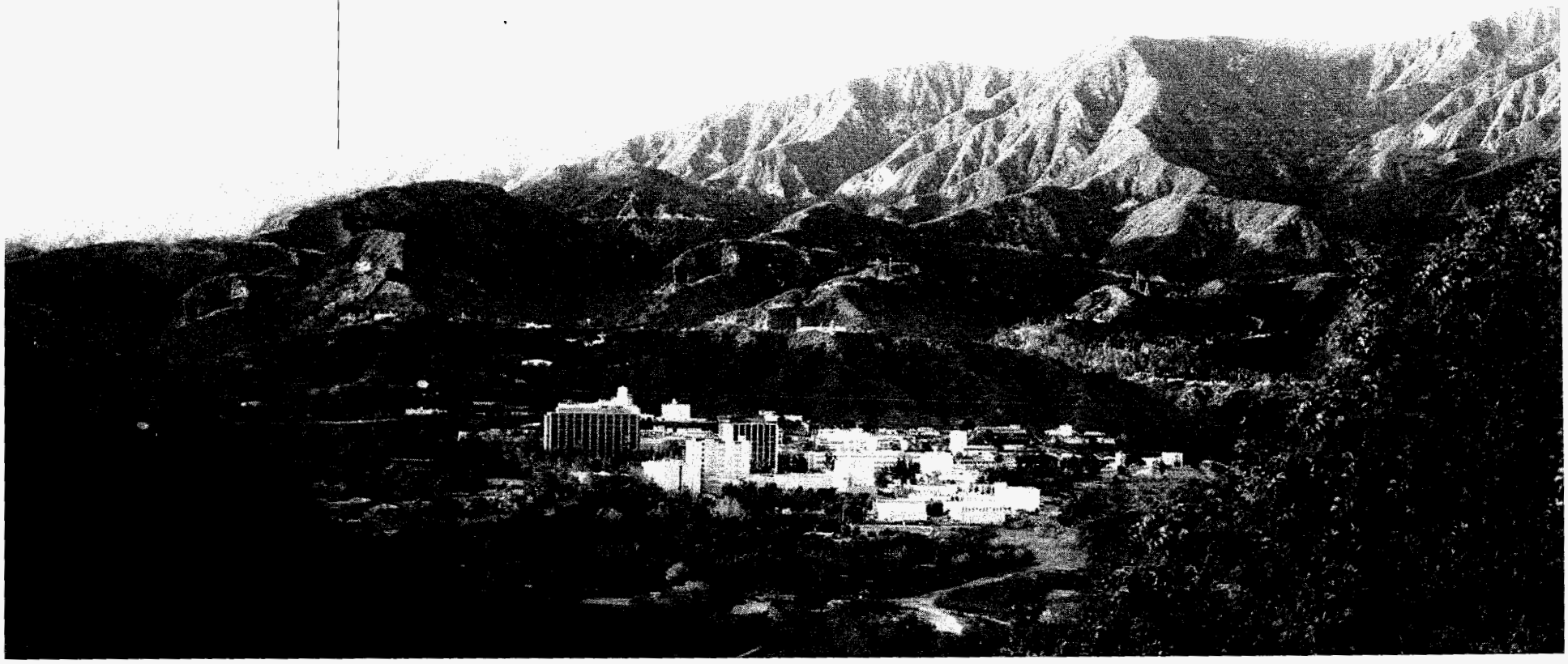
National Aeronautics and
Space Administration

Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California

Jet Propulsion Laboratory Annual STI Update

May 12, 2005



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STI supported by

- *Technical Information Section*
- *Library, Archives, and Records Section*
- *Institutional Computing and Information Services Office Knowledge Management Team*

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Technical Information Section

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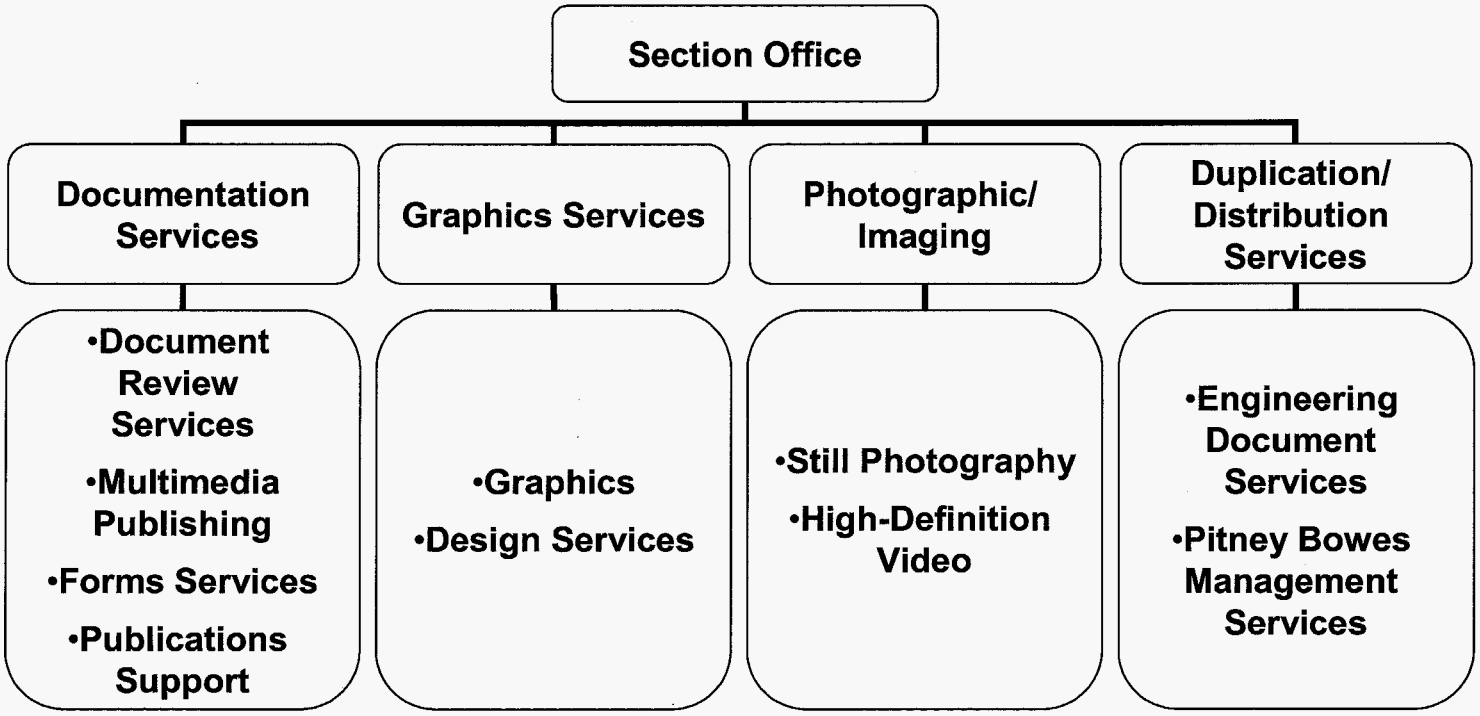
Technical Information Section Organization



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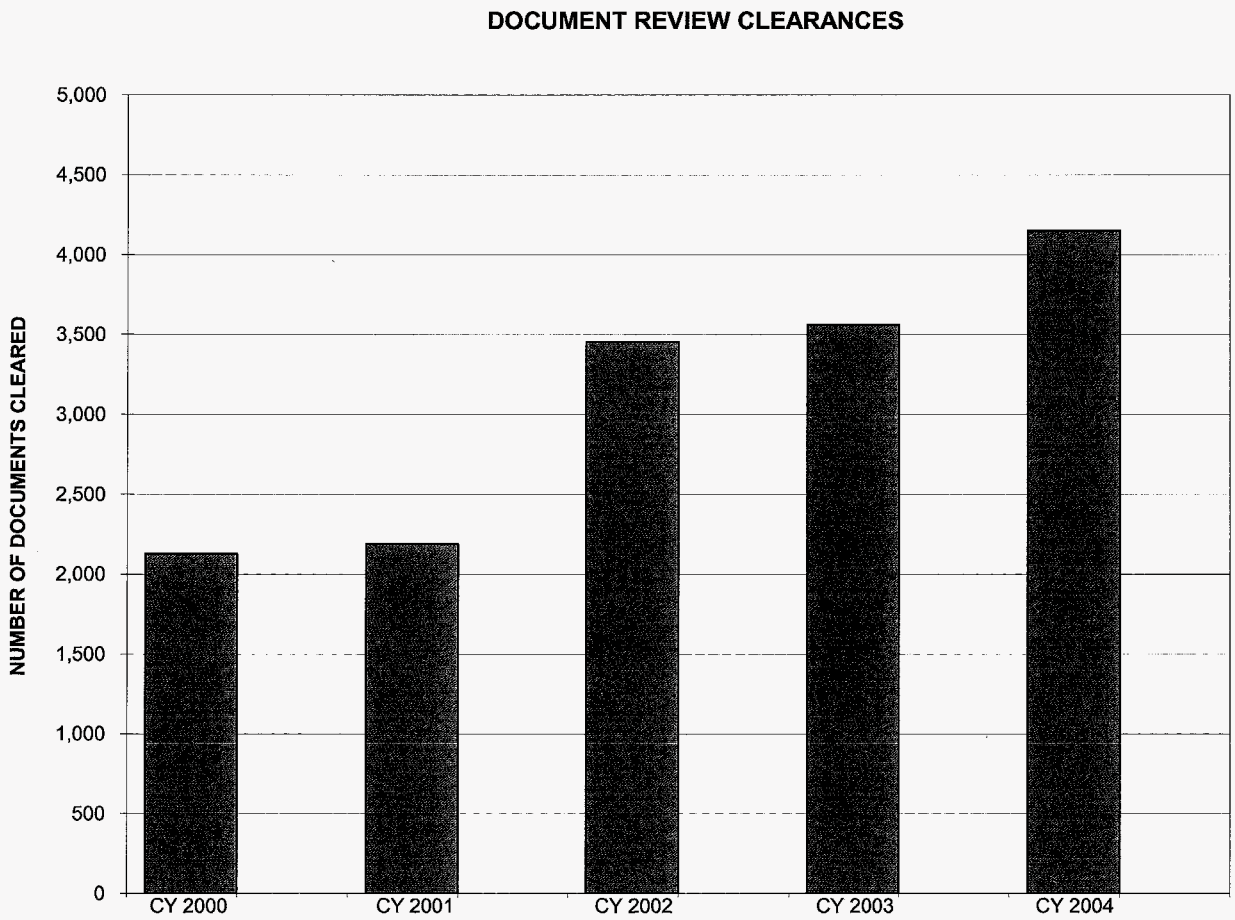
Technical Information Section '05 Highlights



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Technical Information Section '05 Highlights (cont'd)

- ***Helped develop high-profile websites***
  - ***NASA home page***
  - ***Cassini***
  - ***JPL Solar System Exploration Directorate***
  - ***Distributed Spacecraft Technology***
  - ***Prometheus Nuclear Systems and Technology (in process)***
- ***Helped JPL acquire new work by providing 3,823 hours of proposal documentation support***

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Technical Information Section '05 Highlights (cont'd)

- ***Acquired equipment to support broadcast-quality digital-video formats***
  - ***Panasonic DVC-Pro***
  - ***Sony high definition***
- ***Increased image-management storage capacity for digital-image archive to 1.3 terabytes***
- ***Moved digital-image archive DVDs and metadata offsite for disaster recovery***

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Technical Information Section '05 Highlights (cont'd)

- ***Completed digitizing 130,000 Deep Space Network drawings. Completion time hindered by***
  - ***Quality of microfilm***
  - ***Method of microfilming***
- ***Established a process to send JPL-produced lithographs electronically to the Planetary Photojournal website (http://photojournal.jpl.nasa.gov/index.html)***
  - ***Permits world-wide access through NIX***

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Continuing Initiatives

- ***Integrated Document Management System (iDMS)***
  - ***Descoped and delayed***
  - ***Still planning to develop and implement end-to-end web-based clearance process to expedite external release of information***

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Library, Archives, and Records

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Library and Records Staffing and Organizational Changes

- ***Archives and Records split into 2 groups***
  - ***New records manager: Kay Schardein***
  - ***Project librarian transferred to technical division***
- ***Working with new Archives and Records subcontractor***
- ***Historian position in Office of Communications and Education filled by Erik Conway***

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Library and Records Planning

- ***Developed 3 basic elements in new 3-year plan***
  - ***Technology, i.e., making it "as easy as falling off a log"***
  - ***People, e.g., training, outreach***
  - ***Collections, e.g., acquisition, organization***

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Library '05 Highlights

- ***Collections***
  - ***Obtained licenses for***
    - ***AIAA Archive***
    - ***Elsevier Earth and Planetary Backfile***
  - ***Moved Elsevier titles to TORPEDO***
  - ***Rolled out JPL Author Database (JAD)***
  - ***Implementing Safari and Books 24X7***
  - ***Converting TRS to DSpace***
  - ***Merging journal back runs with current collections***
  - ***(Still!) Working to streamline process for licensing e-journals***

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Library '05 Highlights (cont'd)

- ***Services***
  - ***Continue to offer value-added services: reports and market research***
    - ***Bibliometric analysis, e.g., annual report on JPL-authored publications***
    - ***External and internal assessment of core competencies, strategic directions***
  - ***BEACON Overview course***
  - ***Information Provider Fair***
  - ***Newsfeed implemented on Library, Archives, and Records website, linked to JPL portal***

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Library and Records New Initiatives

- ***Link Resolver***
- ***Metasearch***
- ***Automatic indexing, semantic web experiment***

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Library Support for Knowledge Management

- *JPL core metadata*
  - *Team has finalized*
  - *Beta implementation (DocuShare, DIMS, Teamcenter)*
- *iKM monthly "brown bag"*
  - *Topics of mutual interest to the Logistics and Technical Information Division and the Enterprise Engineering Division, e.g., information technology support*
  - *Informal presentations, networking, information exchange*

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Archives Initiatives

- ***JPL Archives moved back on site from contractor facility***
  - ***Processing new collections is now in house task***
  - ***Working with Photolab to improve access to JPL photo images***

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Records Initiatives

- ***User training***
  - ***File system***
  - ***Records management***
- ***Records inventory***
  - ***Hired temporary contractor to conduct interviews and create file maps***