USING HST:
"From Proposal To Science"

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13 FEB 91
A SHORT HISTORY:

- Use Of Modems Denied, 1982
- Astronet Project, 1985
- Internet Link @ 56Kb, 1986
  (NOAO & NRAO Supported @ 9.6Kb)
- SPAN Link @ 9.6Kb, 1986
- Dual Protocol Proteon, 1989 @ 56Kb
- T1 Link, 1991
USES OF NETWORKS @ STSCII

- General Communication
  -- National & International User Community
  -- All Protocols (Bitnet, Internet, Decnet, X.25)
- Science Collaboration
- Functional Activities
  -- Distributed Development (TRW & ST-ECF)
  -- Proposal Submission
- Internal Data Management
  -- Heterogeneous Environment
  -- Science & Operational Uses
- External Data Access
  -- Remote Catalog Access DMF
    [-- ADS Integration]
    [-- DADS Futures]
DMF ACCESS

- Cat Query
- Display Results
- Edit Results
- Arch Request

DMF Prop
Obs/Exp
Catalog

File Handler

File Receiver

OD
OD
FUTURE USES

Catalog Browse
- Direct access
- Via ADS

Archive Browse
- Via ADS
- DADS

Multidisciplinary Analyses
- Different wavelengths
- Different data types

REQUIREMENTS

Modest Bandwidth
(56Kb)

High Bandwidth
(T1, TB)
Image Compression

Common Protocols & Interfaces
Data Interchange Standards
DMF ACCESS

Cat Query
Display Results
Edit Results
Arch Request

LAN/WAN Links

DMF Prop
Obs/Exp
Catalog

File Handler
OD
OD

File Receiver

Optical Disk Archive

Expectation: ADS & NREN functionality will be crucial to success of these systems