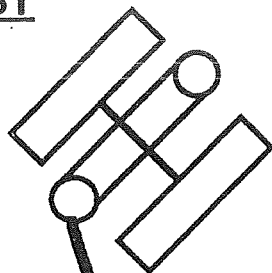# USING HST:

"From Proposal To Science"

P. SHAMES

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]
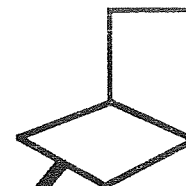 - [-- DADS Futures]

HST

USERS

POCC

SOGS

Sci
Systems

NSI

NSF

International
Networks

Proposal/Observation Handling

Proposal Creation → WAN

Proposal Validation

RES

Proposal Submission

Proposal Entry

PEPSI

Proposal Selection

TACOS

Proposal Planning

SPIKE TRANS

Prop/Obs Scheduling

SOGS

Observation/Exposure Acquisition

Exposure Calibration
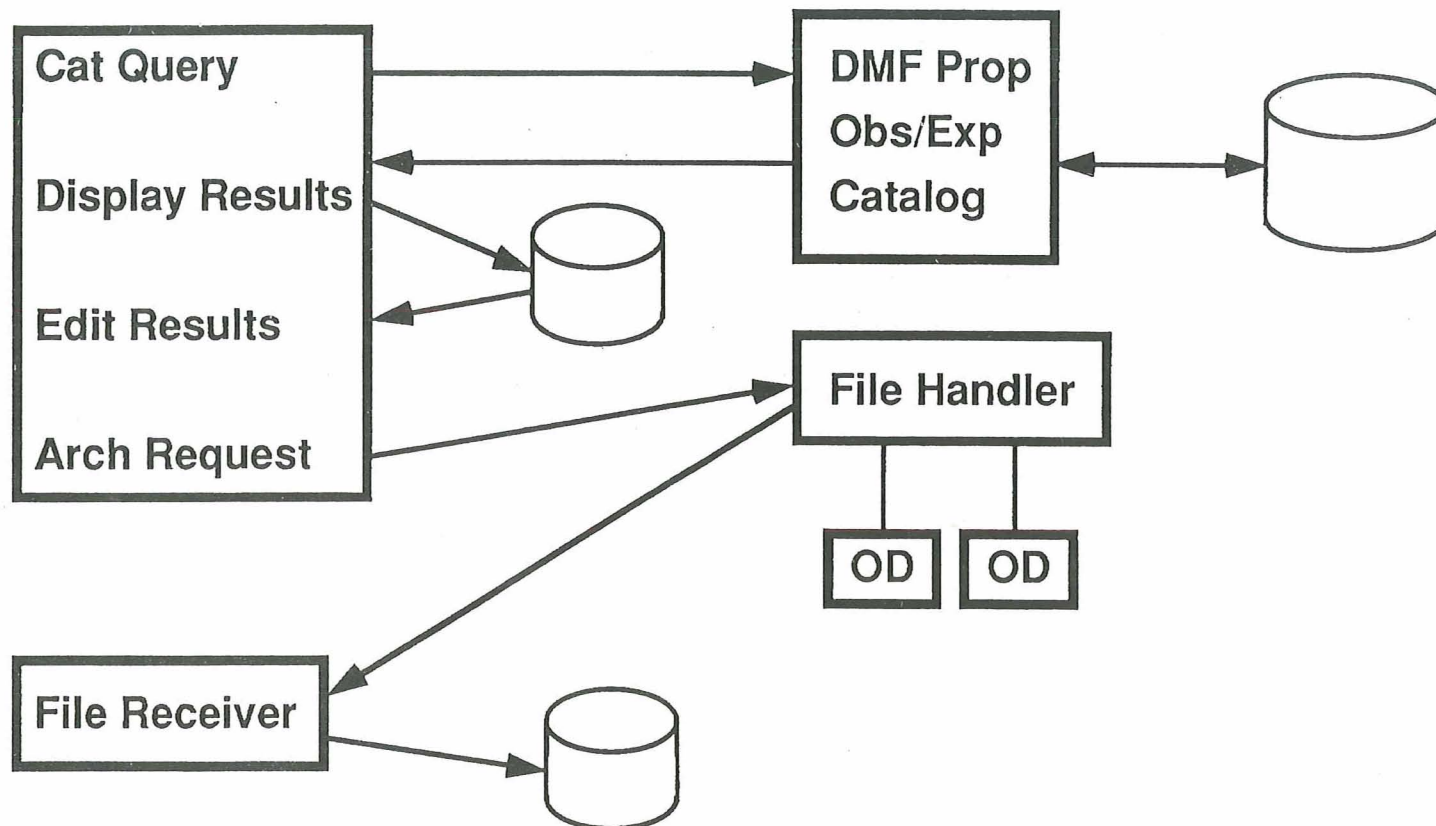
Exposure Archive

Update

Exp/Obs Catalog   DMF

Update

Archive Catalog

Creation

INGEST

DMF ACCESS

230

FUTURE USES

Catalog Browse

- Direct access
- Via ADS

Archive Browse

- Via ADS
- DADS

Multidisciplinary Analyses

- Different wavelengths
- Different data types

REQUIREMENTS

Modest Bandwidth
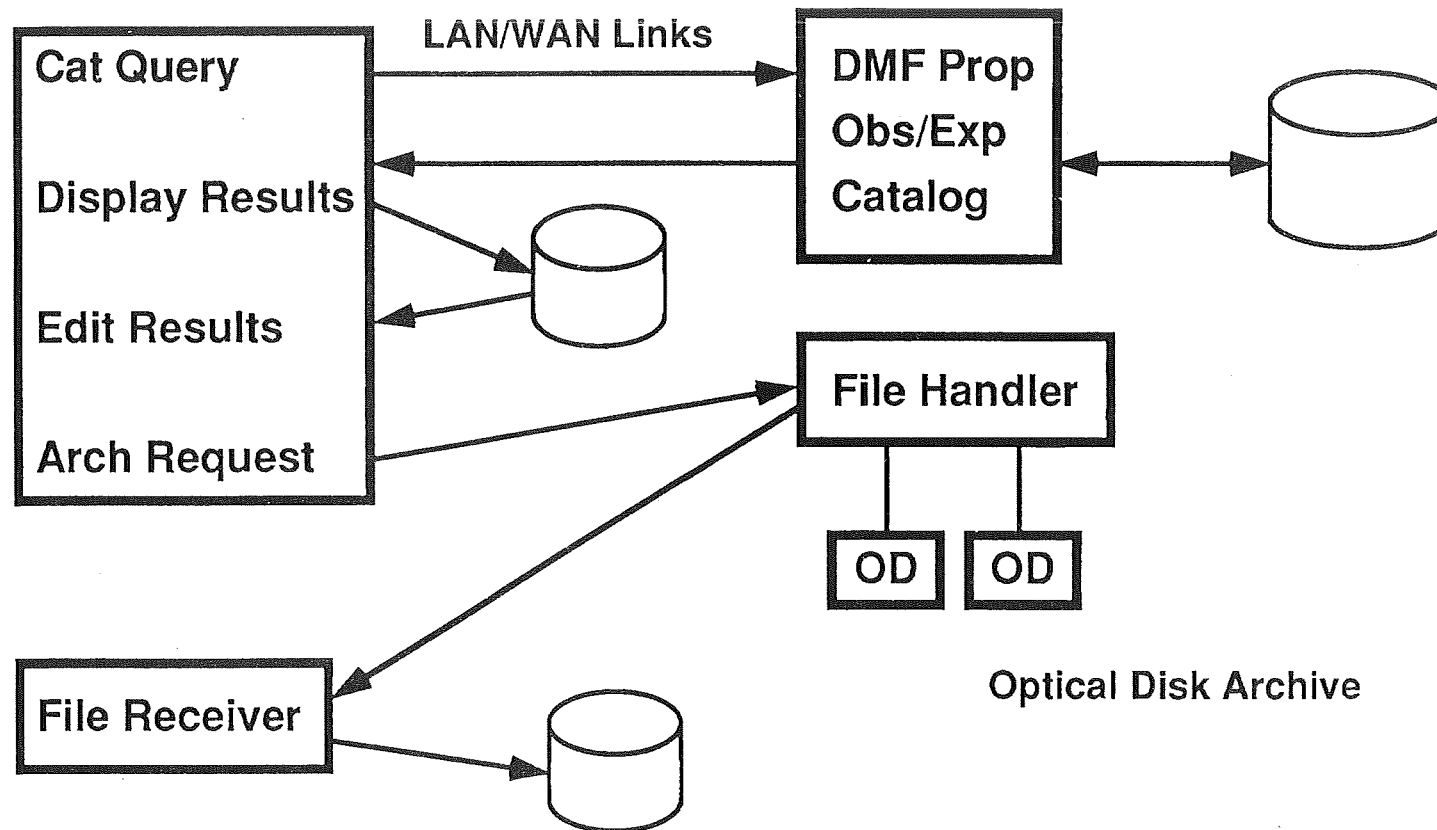(56Kb)

High Bandwidth
(T1, TB)
Image Compression

Common Protocols &
Interfaces
Data Interchange Standards

DMF ACCESS

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