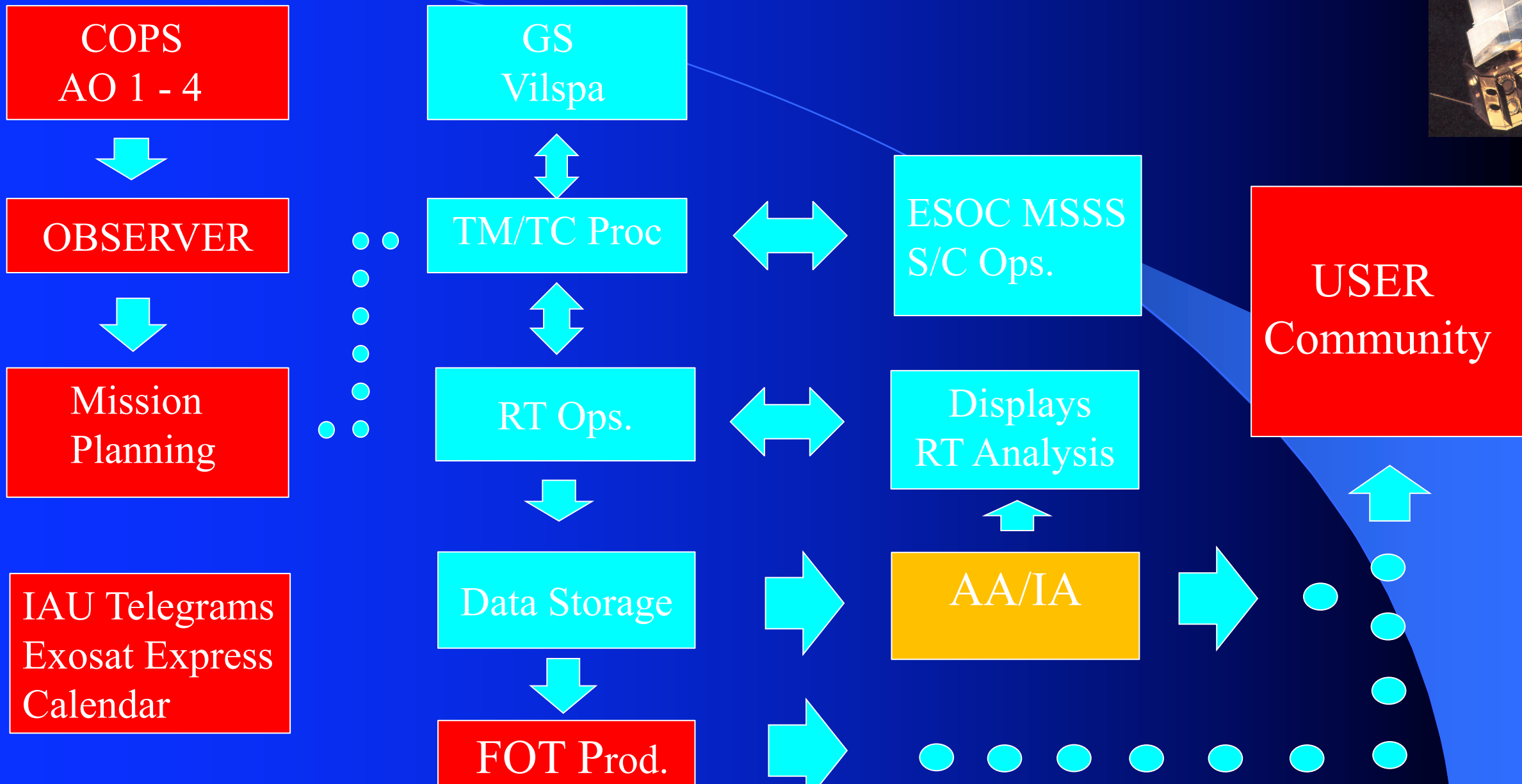


OPERATIONS PREPARATION



- Real-time ops. 24/7, Observers present
- Elliptic 90 hr, N-orbit. Long (78 hr) observations
- 3-axis stabilisation
- Planned 2 year lifetime, ca. 3 y achieved(L at 1min.)
- Co-location of SOC and MOC at ESOC
- Dedicated Control Room
- Maximum re-use of check-out h/w and s/w
- Complete data archive with ESA, post-ops period
- On-Board Computer (OBC)
- (Hadamard transform module)



OPERATIONS(1)

- Launch: 26/05/83
- Check-out: 14/06/83
- CALn/PV: 17/08/83
- AO 1-4: April 86

- N.B. Post. 4/86, extension possible using hydrazine to boost perigee.

➤ Statistics

- No. of Observations ca. 2000
- Targets of Opportunity 150
- Co-ordinated Obs. ?

➤ Dynamics

- Real-time changes (Observer)
- New and modified OBC modes
- TOO's (Demanding on Mission planning)
- Anomalies



OPERATIONS(2)

➤ Development

- Response to changes
- Provision of Auto Analysis and Interactive Analysis
- 24/7 Obs. Ops. Observatory controllers replaced scientists
- Computer system HP to Vax (post-ops)

➤ USER Interface

- COPS via PS
- Ops.Preparation
- Observers often present
- Use of IA
- Reporting



Dies irae dies illa
Solvat EXOSAT in favilla
Teste David cum Sybilla

Quantus tremor est futurus
Quando observator est venturus
Interactivam discussurus

Beeper mirum spargens sonum
In regione terminalium
Coget D.Sci. ante Obscon

Quid sum miser tunc dicturus
Triplicem TOT filaturus
Bis ESPEC executurus

Dies irae dies illa
Solvant TP in favilla
Nunc bibenda est camomilla



STAFFING

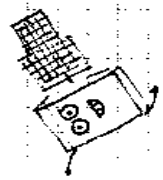
- Operations Preparation - Engineers
 - S/W (ground,on-board,mission planning)
 - Establish DCR, MOC
- Recruitment resident scientists
 - RT Ops./ assistance observers(24/7)
 - Calibration/Performance
 - Data Analysis/research
 - Analysis software (AA/IA)
- Data assistants
 - FOT production/MPS/IA Booking/Despatch
- Observatory Controllers
 - RT Ops.



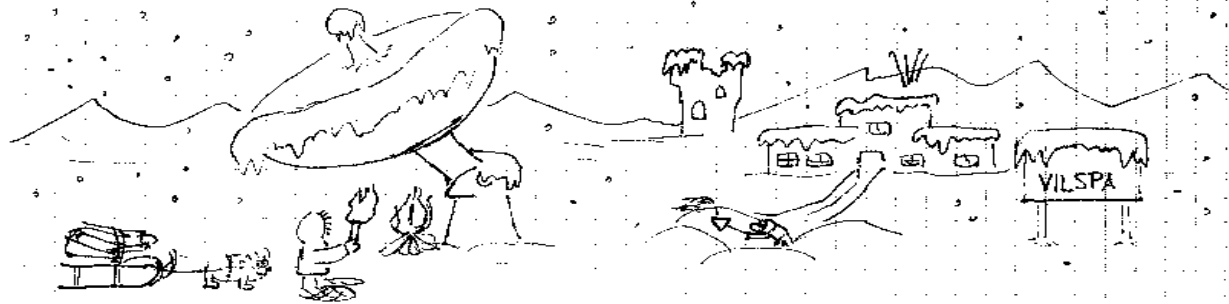
Typical Day

- R/T Ops, support to Observers
- Feedback to on-going observation
- Mission Planning
- FOT production
- Archiving
- Development (OBC, AA,IA)
- Science
- Documentation/reporting
- Response to TOO's, anomalies etc.
- Special events
- Retire to ESOC Bar

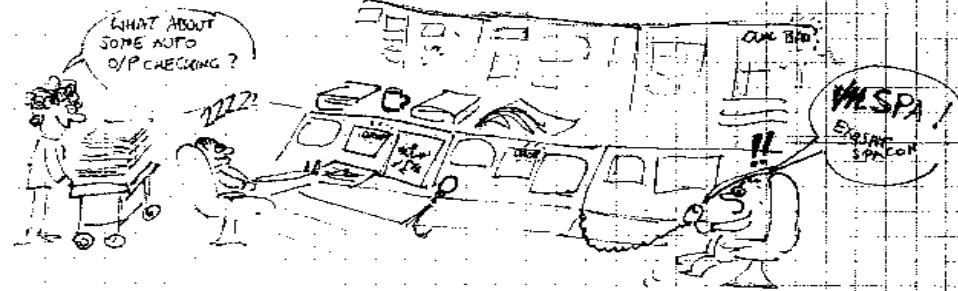




No TELEMETRY



ESOC
NOTICE BOARD
SKI-TRIP TO
VILSPA
ORGANIZED
FOR TODAY



because of snow on the antenna at
VILSPA.

They are trying warming it up now.



FUN/CAREER



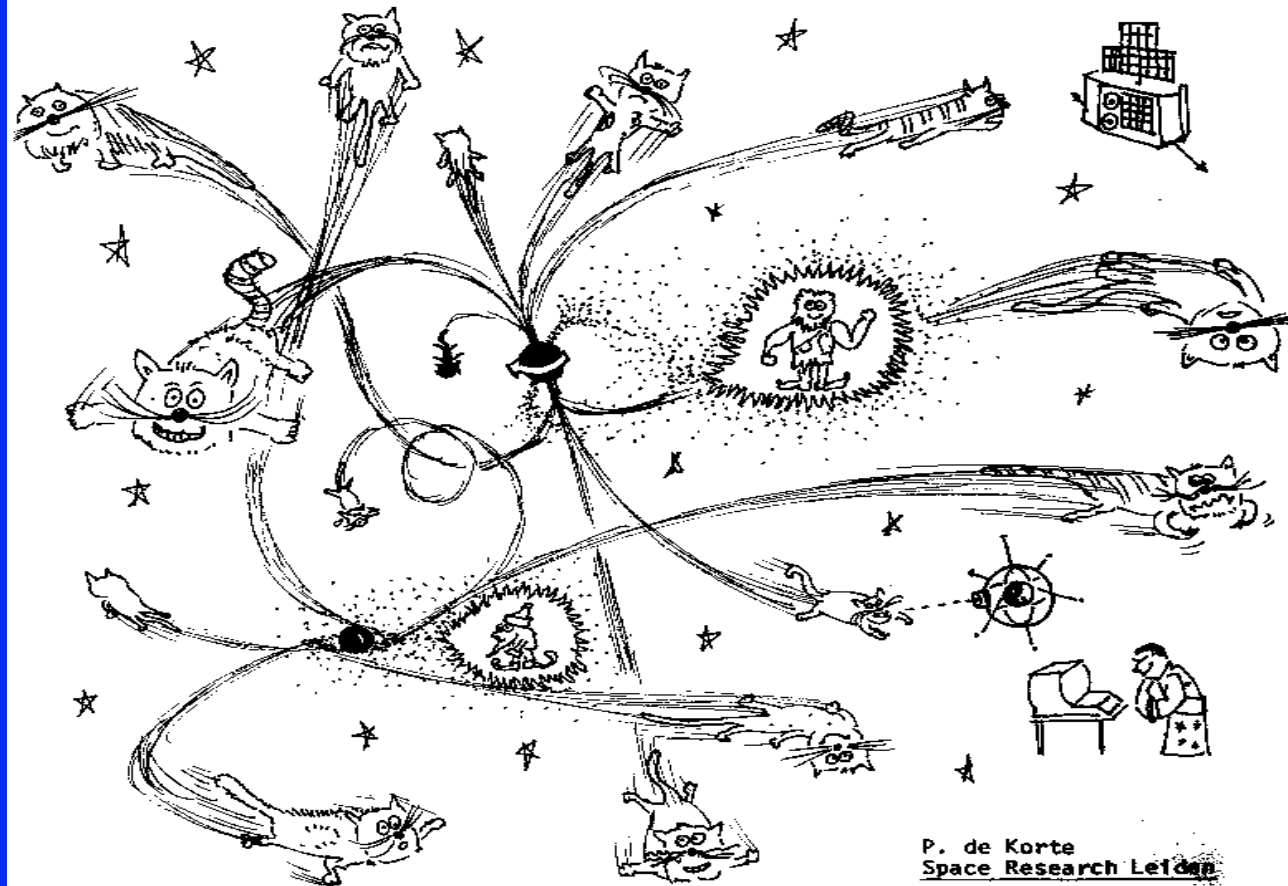
- EXOSAT as excellent stepping stone for future career
- ESOC H/Depts.
- Fun
 - Bar at ESOC
 - Rhein Cruise
 - Fun Run
 - Ski Trips
 - Cartoons

Not the EXOSAT EXPRESS

COMMENTS ON THE COSPAR X-RAY ASTRONOMY MEETING

Iron Cats ?

In the field of binary X-ray sources, the Tenma results of Fe-line emission from pulsars and low mass systems are crucial for further model development. Also noteworthy is the detection of absorption lines in the spectra of burst sources presently explained as gravitationally redshifted Iron-absorption lines.



P. de Korte
Space Research Leiden



FUN/CAREER

- EXOSAT as excellent stepping stone for future career
- ESOC H/Depts.
- Fun
 - Bar at ESOC
 - Rhein Cruise
 - Fun Run
 - Ski Trips
 - Cartoons
 - Gocce Imperialis

