

THE DORIS PILOT EXPERIMENT

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The Pilot Experiment

Purpose of the DORIS Pilot Experiment

- ↓ assess the need and feasibility of an International DORIS Service
- ↓ establish at least 2 global Data Centers (2 countries)
- ↓ establish the products to be initially considered
- ↓ examine the operational nature of the Central Bureau
- ↓ assess the opportunities for new stations and additional receivers

Analysis Centers - Products

- ↓ High accuracy ephemerides
- ↓ Stations coordinates and velocities
- ↓ Time varying geocenter coordinates
- ↓ Earth rotation results
- ↓ Ionospheric information
- ↓ Earth's gravity field
- ↓ Intercomparisons
- ↓ quality checks
- ↓ Combined solution

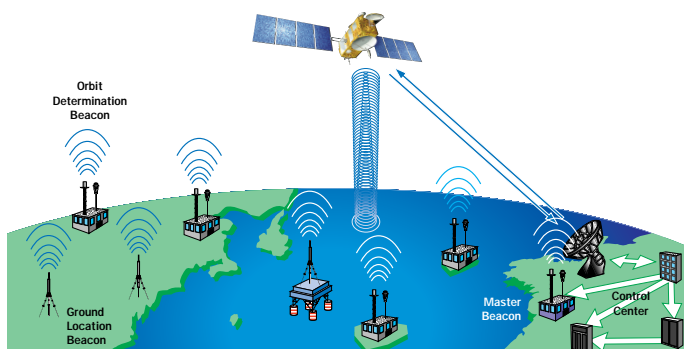
Future IDS Elements

- ↓ Transmitting stations
- ↓ On-board packages
- ↓ Data Centers
 - archive and distribute data and products
- ↓ Analysis Centers
 - products
 - intercomparisons
 - combined solutions
- ↓ Central Bureau
 - coordination
 - management
- ↓ Directing Board
 - policies
 - directives
- ↓ Associate Members
- ↓ Corresponding Members

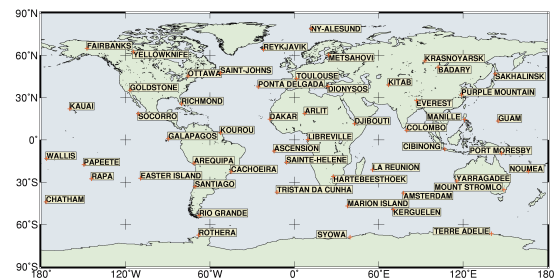
Schedule

- ↓ IUGG, July 1999, Birmingham
 - IERS and CSTG Directing Board : DORIS Pilot Experiment initiated
- ↓ Call for Participation: 1 September 1999
- ↓ Formal proposals: 1 January 2000
- ↓ IDS steering committee - Proposals review: January 2000
- ↓ Beginning of the Experiment: early 2000
- ↓ Milestone: DORIS Days 2-3 May 2000

The DORIS System



The DORIS System



DORIS Network



	1 st generation	2 nd generation	Miniaturized 2 nd generation	Navigation receiver
Applications	SPOT2 SPOTS TOPEX-POSEIDON SPOT4 (DIODE)	ENVISAT	JASON SPOT5	Under study
Characteristics	Bi-frequency	Id + dual channel + on board total	Id + improved phase measurement	Mono-frequency
Mass	18 kg	11 kg	5 kg	1.5 kg
Volume	20l	15l	5l	1.5l

DORIS Receivers Family