

**MINISTRY OF PUBLIC WORKS**  
**Hydraulic Research Division**  
**(HRD)**

M.A.Amatali M.Sc.  
Head Hydraulic Research Division

# **ORGANIZATIONS WATER SECTOR IN SURINAME**

- **MINISTRY OF NATURAL RESOURCES**
- **MINISTRY OF PUBLIC WORKS**
- **MINISTRY OF AGRICULTURE**
- **MINISTRY OF SPATIAL PLANNING**
- **MINISTRY OF PUBLIC HEALTH**
- **MINISTRY OF REGIONAL DEVELOPMENT**
- **MINISTRY OF TRANSPORTATION**
- **MINISTRY OF EDUCATION**
- **MINISTRY OF LABOUR, TECHNOLOGY AND ENVIRONMENT**
- **INSTITUTES, NGO'S AND PRIVATE SECTOR**

# **MINISTRY OF PUBLIC WORKS**

- **MAIN INFRASTRUCTURE**
- **URBAN PLANNING**
  - **SERVICE FOR URBAN PLANNING**
- **URBAN DRANAGE**
  - **URBAN DRAINAGE DIVISION**
- **COASTAL AND RIVERBANK PROTECTION**
  - **COASTAL AND RIVERBANK PROTECTION DIVISION**
- **ENVIRONMENTAL HYDRAULICS AND HYDROLOGY**
  - **HYDRAULIC RESEARCH DIVISION**
- **METEOROLOGY**
  - **METEOROLOGICAL SERVICE SURINAME**

# **HYDRAULIC RESEARCH DIVISION**

- **Establishment**
  - 9 november 1962
- **Purpose of the service**
  - Promote the optimum utilization, management and protection of the water resources
  - Promote adequate water control

# HYDRAULIC RESEARCH DIVISION

## Duties/working area

- **Collect, process and publish data on hydrology, hydraulics and water quality**
- **Establish, develop and maintain a national data bank on water**
- **Execute measurements and research in the field of hydrology**
- **Execute measurements and research in environmental hydraulics**

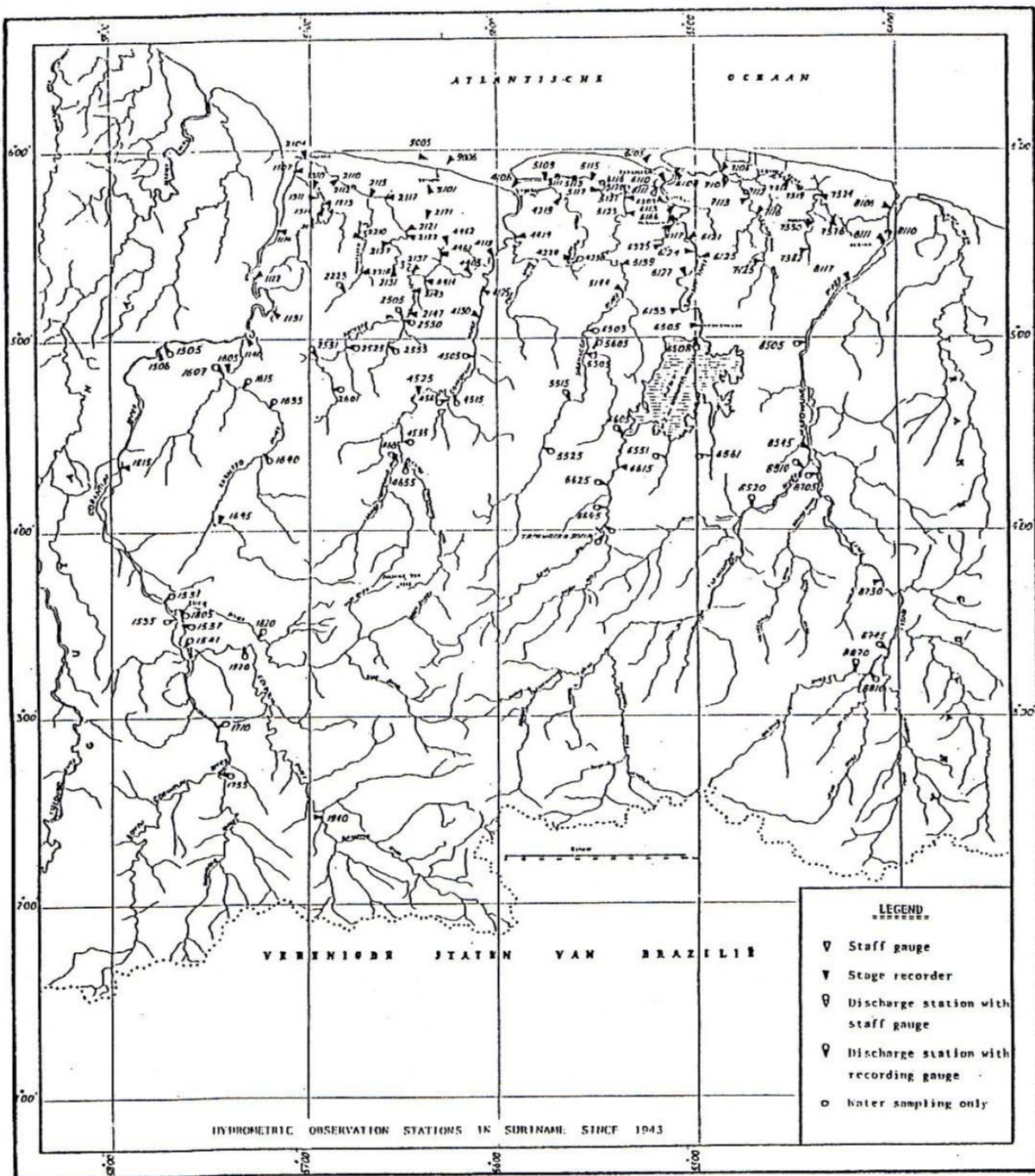
# HYDRAULIC RESEARCH DIVISION

## Duties/working area

- **Execute measurements and research in the field of water quality**
- **Contribute to research in the field of environment**
- **Water resources agency**
- **Functioning as focal point for water related areas**
- **Provide advice in the field of water and the environment**

# Field of activities

- 1. Basic hydrometric, hydraulic and water quality data collection**
- 2. Project base activities**
  - Hydrology
  - Hydraulics en morphology
  - Water quality and Environment
- 3. Provide Advice**
  - To Ministry of Public Works
  - To the government regarding water and environment
- 4. Provide external services**
  - Supplying existing information, data and reports
  - Executing field measurements
  - Analyzing water samples on chemical water quality and plankton





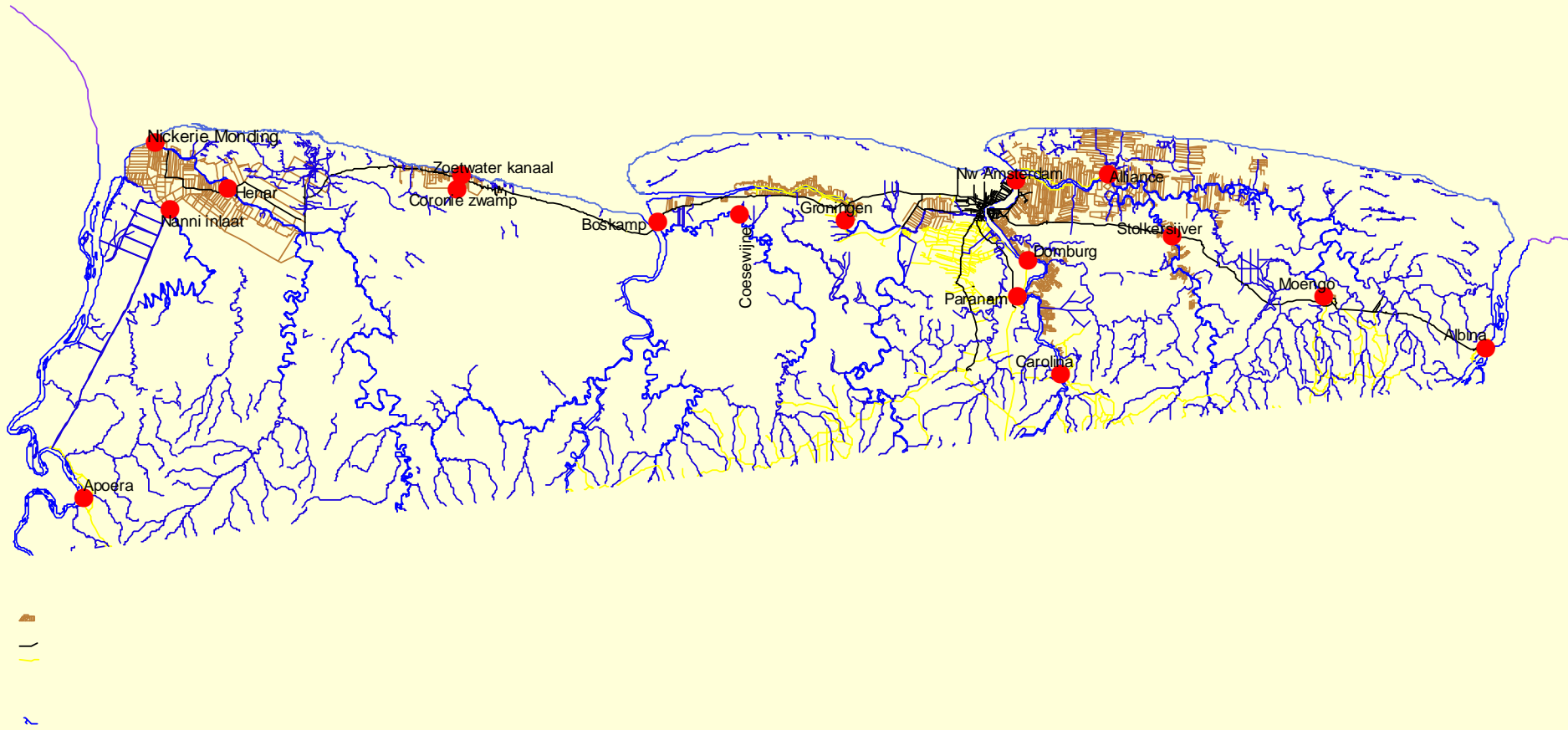
# **National base observation stations since 1943**

- **Drainage area Corantijn river**
  - 24 observational stations
- **Drainage area Nickerie river**
  - 18 observational stations
- **Drainage area Coronie**
  - 1 observational station
- **Coppename river**
  - 10 observational station

# National base observation stations since 1943

- **Drainage area Saramacca**
  - 18 observational stations
- **Drainage area Suriname river**
  - 21 observational stations
- **Drainage area Commewijne/Cottica river**
  - 10 observational stations
- **Drainage area Marowijne river**
  - 11 observational station

# Current Operational Base Hydrometric stations HRD



# Publication Base data

- **Hydrological Annuals**
  - Annual publication of the data of all the base stations of the national observational network
- **Hydrological Data**
  - Secondary processing data of all the data of the each catchments from the establishment of the first station
  - Statistical analyses





















# **PAST EXECUTED ACTIVITIES**

- **Water resources studies**
- **Irrigation and salt intrusion**
- **Water use and management**
- **Navigability of the Suriname river**
- **Water quality en environmental studies**
- **Studies and measurement regarding erosion and sedimentation**
- **Counterpart in water related studies executed by consultants**

# ON GOING PROJECTS AND ACTIVITIES

- **Hydrological study urban drainage**
  - **Sommelsdijkse kreek**
  - **Saramacca canal**
- **Coastal erosion/protection and ICZM**
  - **Coronie coast**
  - **Paramaribo/Wanica/Commewijne**
- **Irrigation**
- **Water Quality and environment**
  - **Intensify the existing network**
- **Participation in establishment of EFWS**
- **Upgrading of HRD**
  - **Modernization of observation methods**
  - **Modernization of the databank**
  - **Upgrading personnel**

# EXISTING DATA AND INFORMATION

## Technical Archive

- Data and information on water
- Hydrological Annuals, Hydrological Data's and other publications
- Maps and drawings
- Data on water level, stream flow, discharge and other hydrological parameters
- Data on erosion and sedimentation

# EXISTING DATA AND INFORMATION

## Technical Archive

- Cross-sections of the coast, rivers and other water courses
- Data on water currents and float measurements
- Data on water quality
- Registration charts and raw data
- Data on ground level and bench marks
- Aerial photographs

# EXISTING DATA AND INFORMATION

## Library

- Reports and publications of HRD
- Reports and publications of other relevant agencies
- Literature regarding water



# Policy Info and Data Sharing

- **Request for the Government of Suriname**
  - Director of Ministry of Public Works
- **External services**
  - Based on existing official pricelist
- **Library**
  - Stakeholders may visit the library and have access to existing books and reports
  - Stakeholders may borrow books and reports from the library only with permission of Head HRD

**THANK YOU**