

Special Session

Cooperation and Exchange of Experience in Water Resource Management and
Adaptation to Climate Change

**Evolution of the Metropolitan Drainage
Commission**

Ramón Alberto López Flores, Eng.

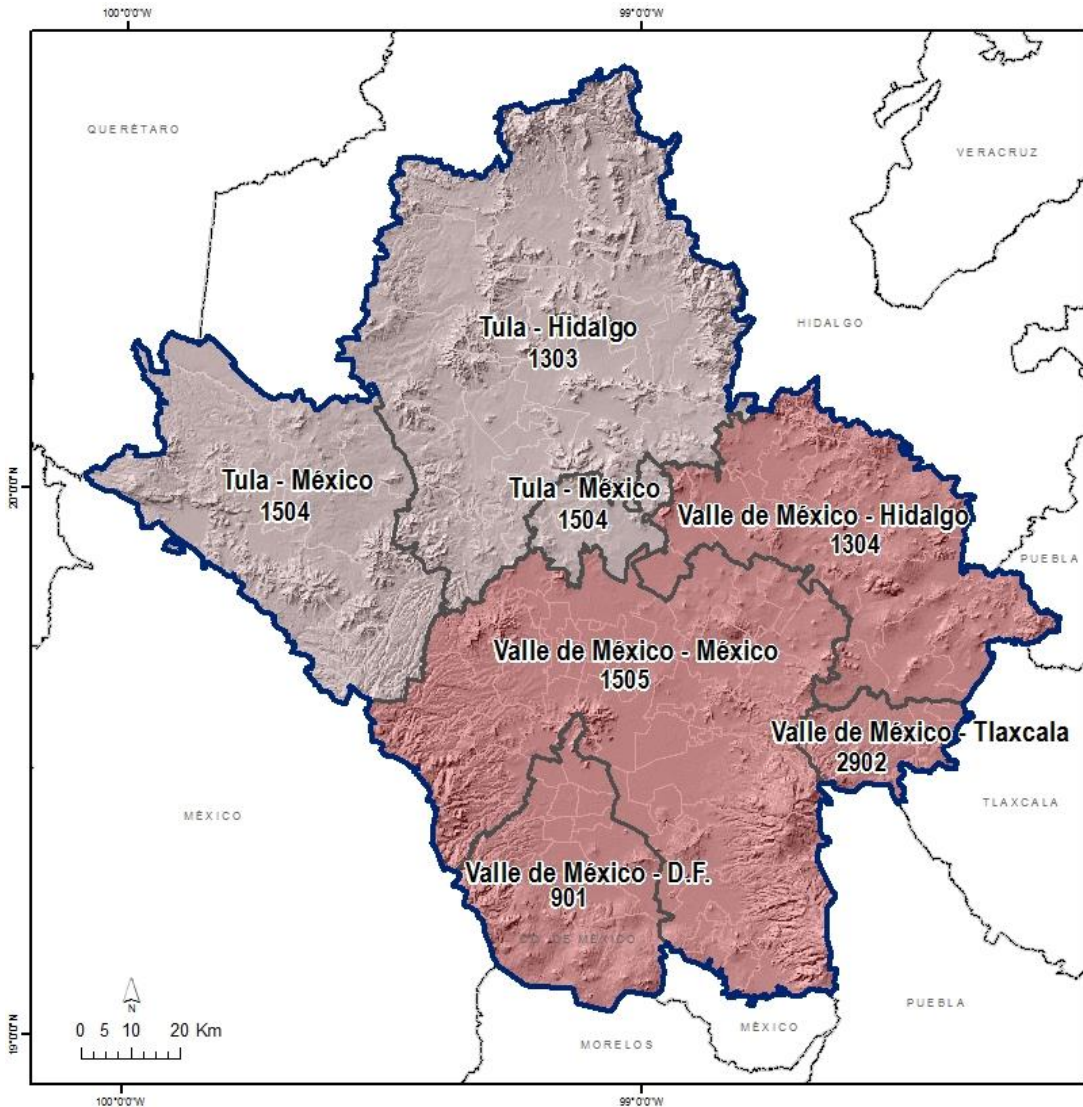
Technical Director

Basin Agency Water of the Valley of Mexico

June 1st 2017

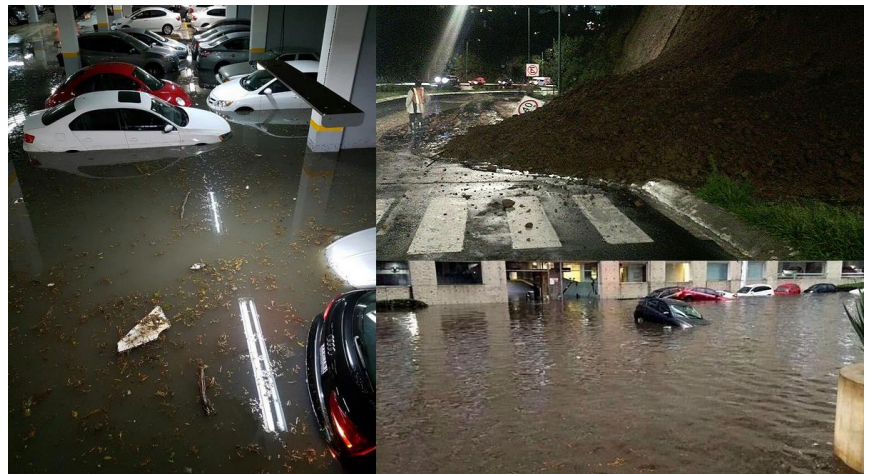
Hydrologic-Administrative Region XIII

CONAGUA
COMISIÓN NACIONAL DEL AGUA



- 105 municipalities from three different states (México, Hidalgo y Tlaxcala) y 16 CDMX municipalities
- 2 sub-regions: Valley of Mexico and Tula.
- Valley of Mexico sub-region: 16 CDMX y 69 municipalities (50 from State of Mexico, 15 from Hidalgo and 4 from Tlaxcala)

- Desiccation of lakes on which CDMX has settled.
- Deforestation in the basins that surround the metropolis.
- Overexploitation of aquifers causing regional and local subsidence.
- Pollution of watercourses and water bodies.
- The population extends to new urban areas that surround the metropolis.
- Risk of flooding during rainy season.



Flooding last Monday may 29th 2017 in CDMX

Joint Operation Protocol



In order to solve the problems Conagua implemented the **Joint Operation Protocol** to attend the hydro-meteorological phenomena in the **Metropolitan Area**, in conjunction with *Sistema de Aguas de la Ciudad de México* (SACMEX) and the *Comisión del Agua del Estado de México* (CAEM), which allows the correct management and operation of the system.



First protocol: July 2nd 2001



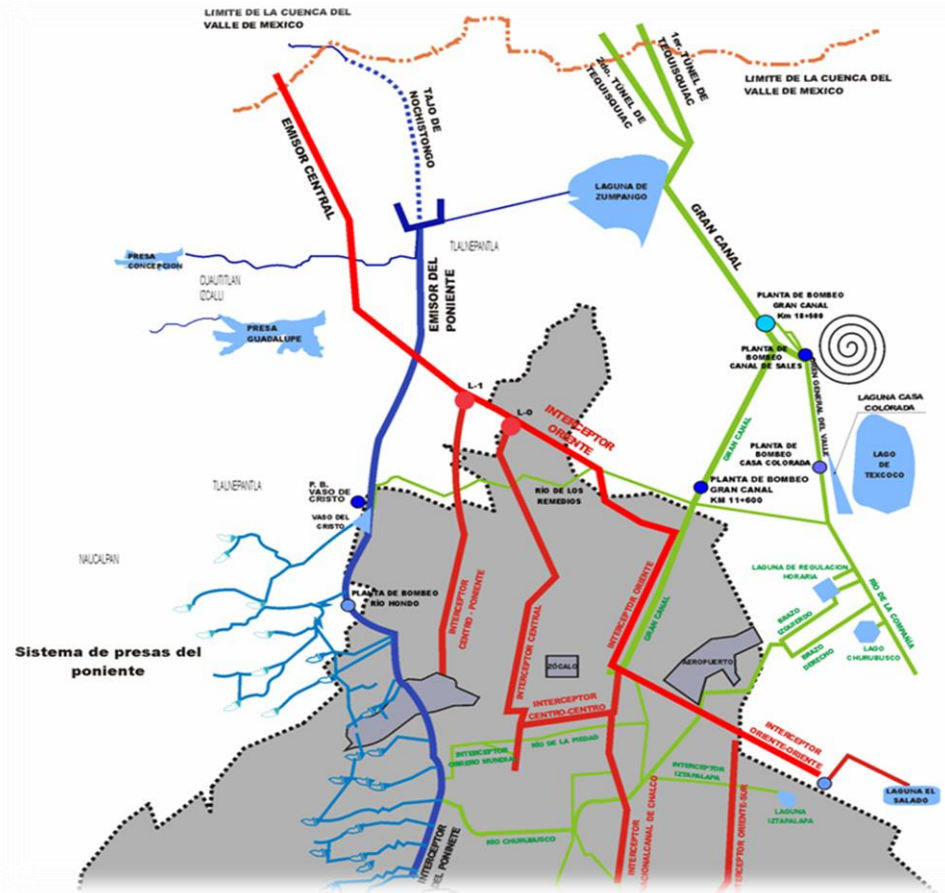
Joint Operation Protocol

9 structures in the West Zone, among them we have the regulating vessels “*El Cristo*”, *Fresnos y Carretas* and the Pumping Plant *Río Hondo*.

12 structures in the *Dren General del Valle Zone*, like *Casa Colorada* and *regulación horaria* lagoons, and the *Interceptor Tunnel Río de Los Remedios*.

5 structures in the *Gran Canal del Desagüe Zone*, including 4 pumping plants and the *Túnel Emisor Oriente* (1st stage).

5 drain ports of the Deep Drainage



Metropolitan Drainage Commission



The Commission observes and ensures compliance with the Joint Operation Protocol for the attention of hydro-meteorological phenomena in the metropolitan area.



Signing of the agreement on June 24th 2014, for the installation of the **Commission for the Operation of the Metropolitan Drainage Infrastructure.**

Comisión Metropolitana de Drenaje



It consists of:

1. Planning, Programming and Construction Subcommittee.
2. Operation, Infrastructure Maintenance and Emergencies Subcommittee

The work is permanent, there is a calendar of sessions of the Directive Council and they meet at least once a month.

The subcommittees are responsible for:

- Develop and propose support plans.
- Analyze the information needed for decision making.
- Carry out actions to perform specific tasks related to the scope, limits, conformation, deadlines and other conditions.



Comisión Metropolitana de Drenaje



The functions of the Commission for the Operation of the Metropolitan Drainage Infrastructure are as follows:

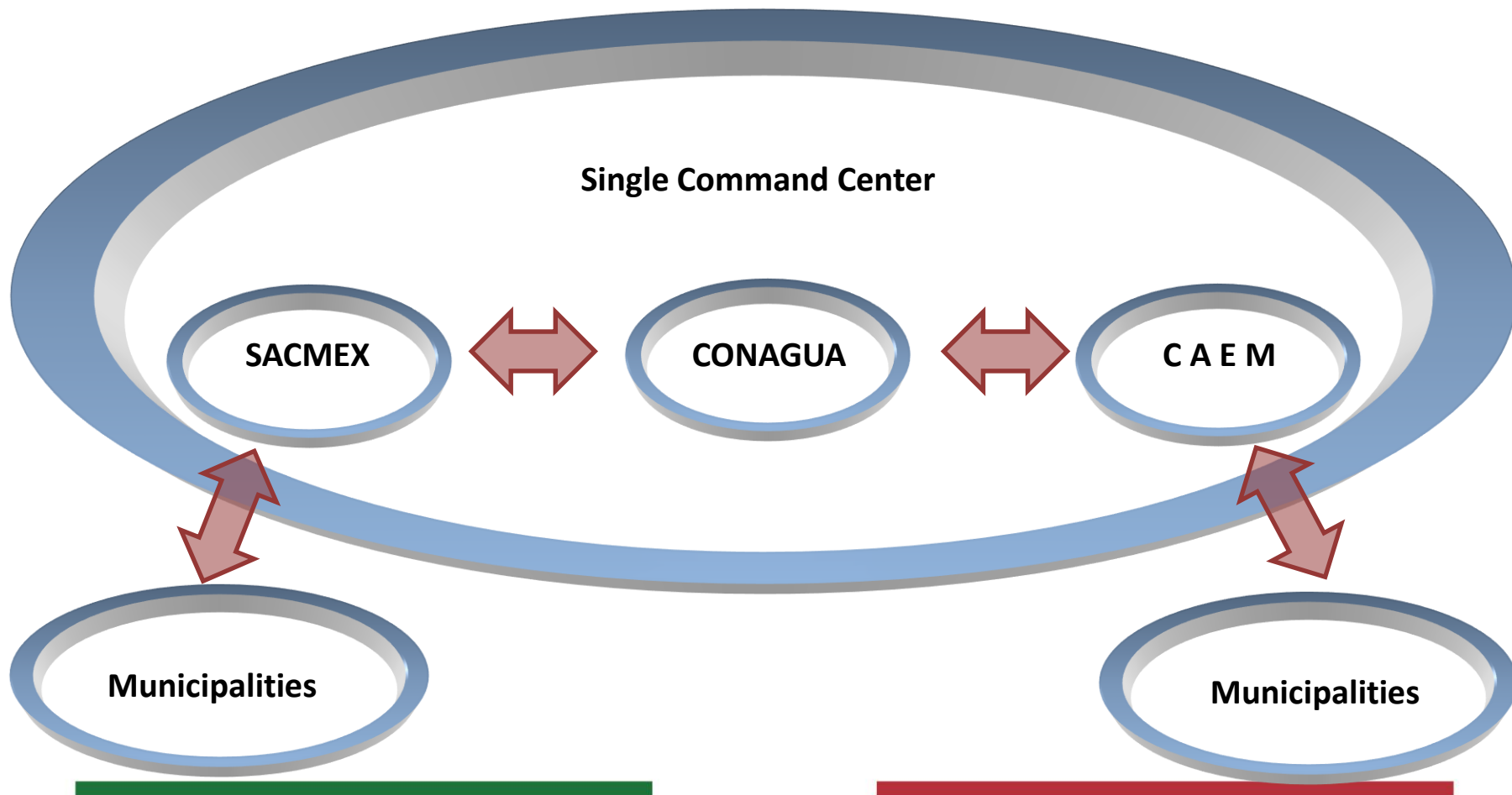
1. Decision making.
2. Planning.
3. Maintenance and Civil Works.
4. Forecasting and alerting
5. Operation.
6. Information Mechanisms.
7. Settlement of Operation and Maintenance Disputes.
8. Water Uses.



Metropolitan Drainage Commission

CONAGUA
COMISIÓN NACIONAL DEL AGUA

Joint Operation Protocol Command Line



Next Steps

- Develop the strategy for the consolidation of the Commission
- Encourage the implementation of technological improvements and risk management of hydro-meteorological phenomena
- Provide the Commission with real independence (necessary institutional reforms)



Thanks!