

INTEGRATING HYDROLOGICAL ENSEMBLE FORECASTS INTO DECISION SUPPORT TOOLS FOR OPERATION OF THE ELECTRIC SYSTEM IN URUGUAY

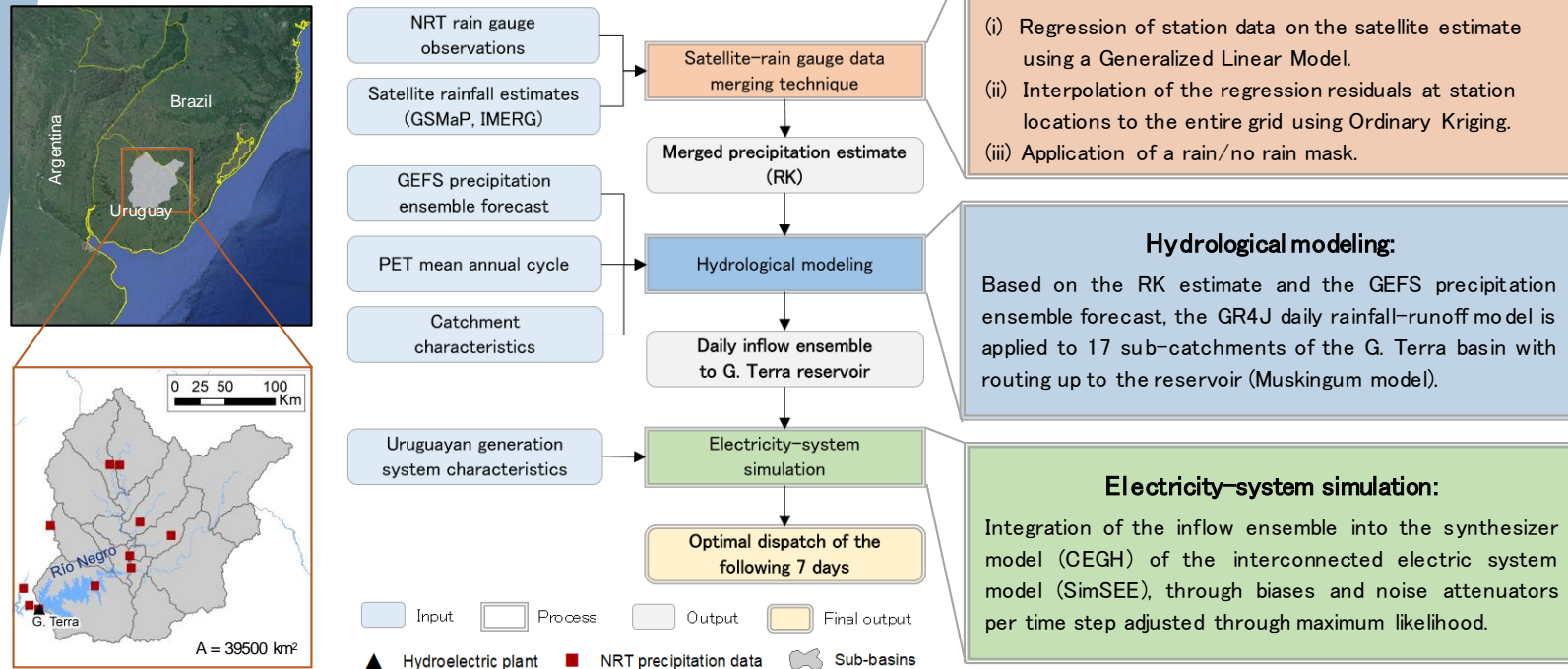
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1. OBJECTIVE

Development of a methodology for the generation and processing of a hydrological ensemble forecast for the largest hydroelectric reservoir of the Uruguayan integrated electric system, based on a **coupled hydrological and electric system modelling approach**.

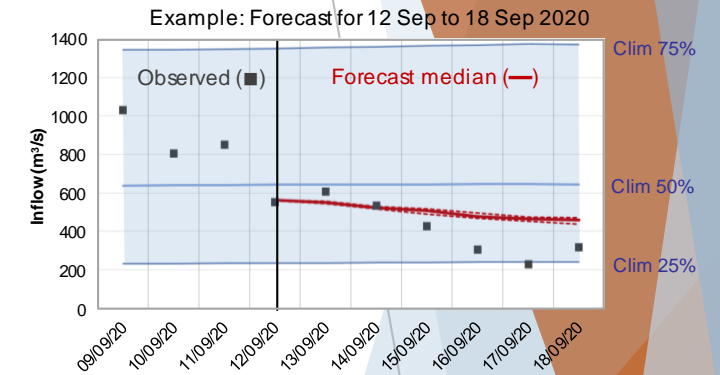
2. MATERIALS AND METHODS

G. Terra plant in the upper Rio Negro basin (Uruguay).



3. RESULTS

The model was integrated into the **operational version** of SimSEE at ADME² in June 2020, it updates and executes on a daily basis in order to obtain the **dispatch** of the following seven days (<https://www.adme.com.uy/>)



4. FUTURE WORK

Evaluation of the ability of the precipitation and hydrological ensemble forecasts.

Assimilation of observed streamflow data: nudging of the state variables of the hydrological model.

Evaluation of a methodology for the selection of a sub-ensemble of GEFS forecasts (based on the performance in the immediately preceding period) in order to improve local predictability.

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