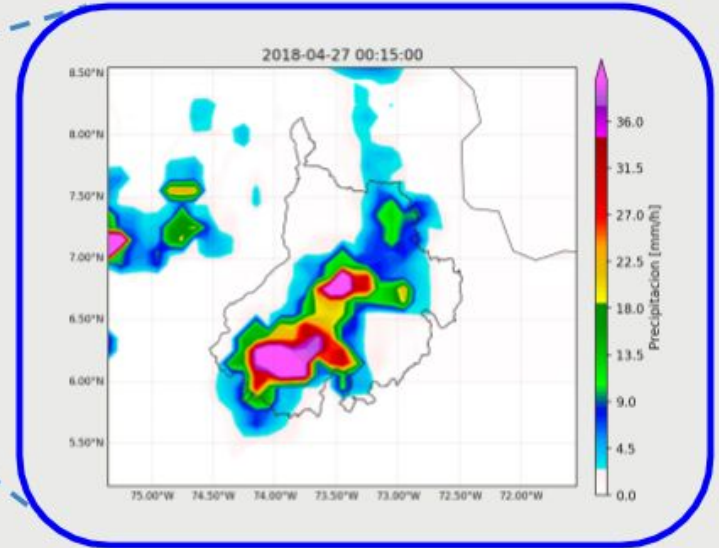
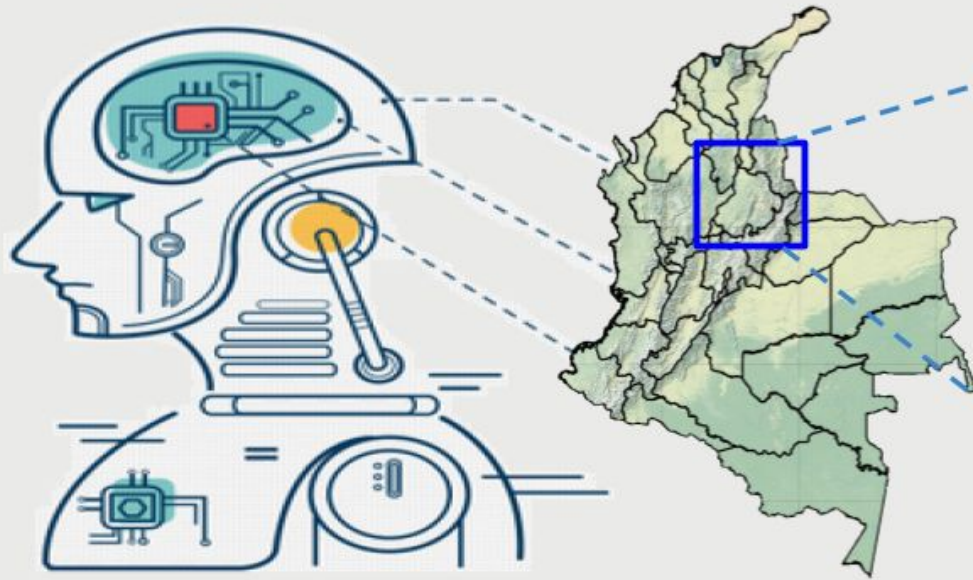
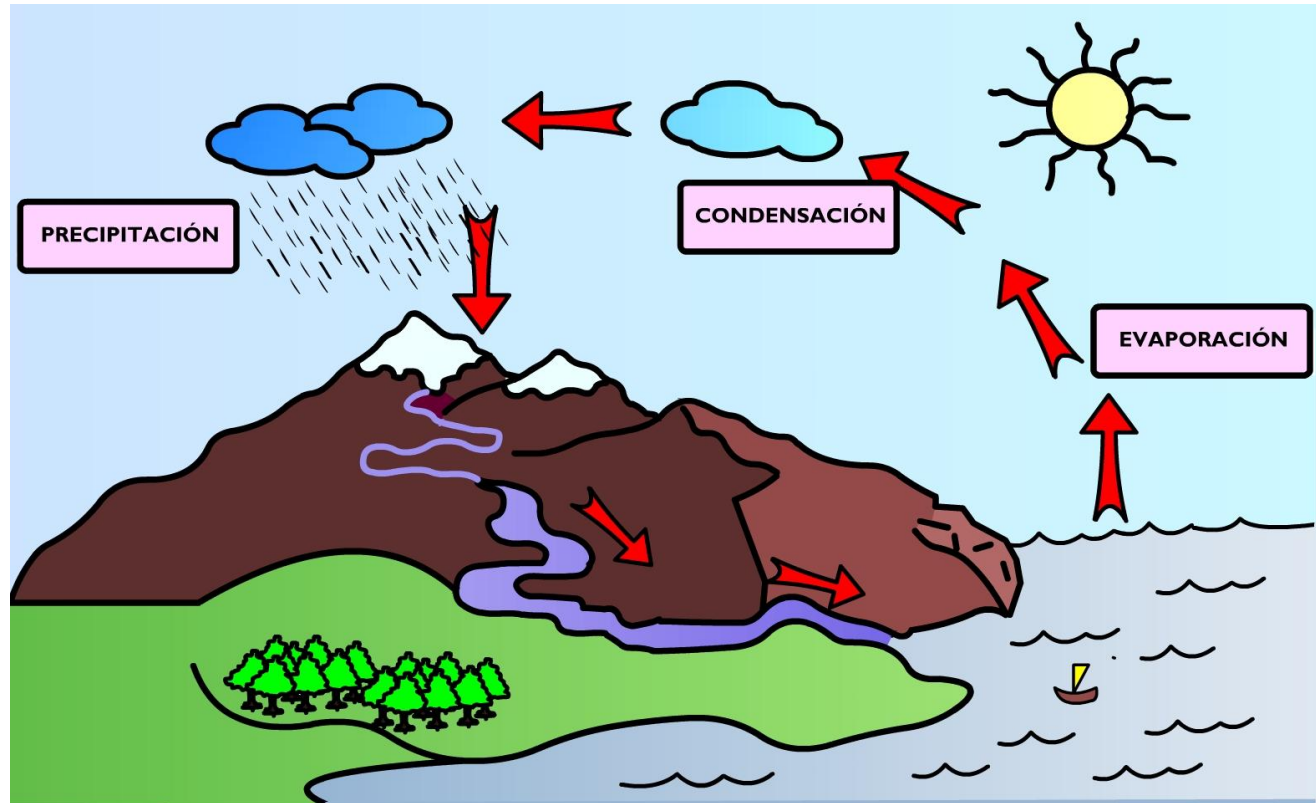


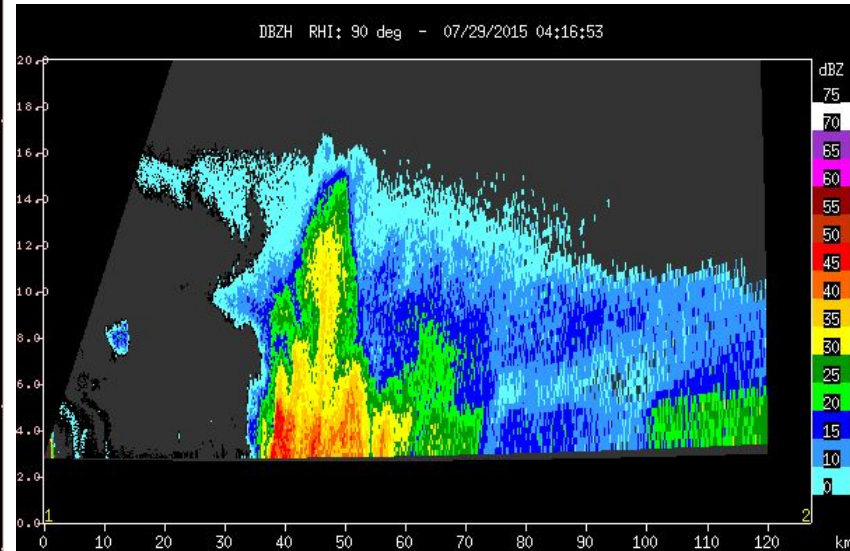
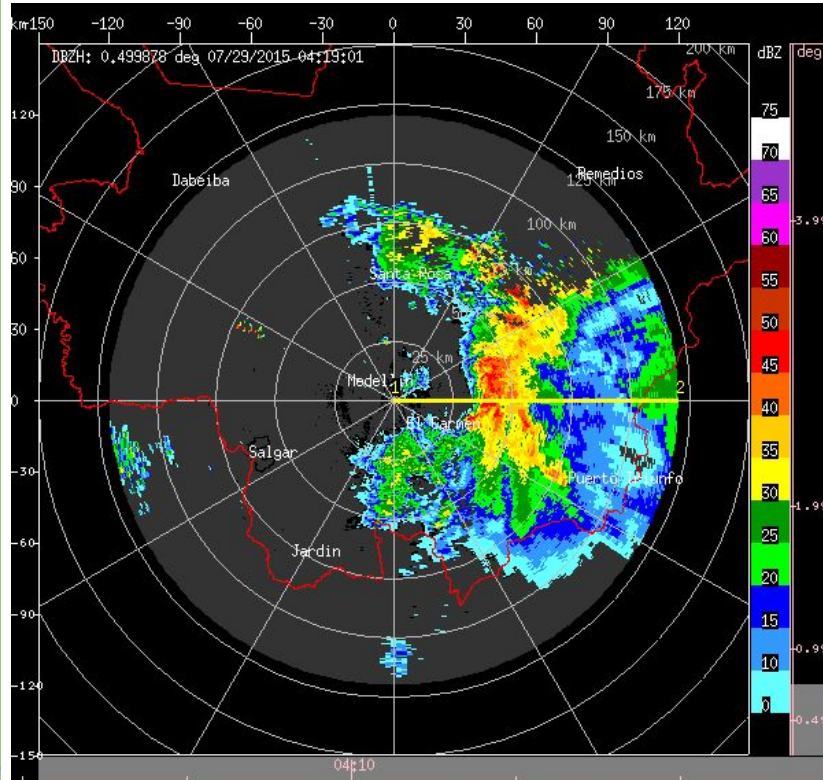
PREDICCIÓN DE EVENTOS EXTREMOS DE PRECIPITACIÓN



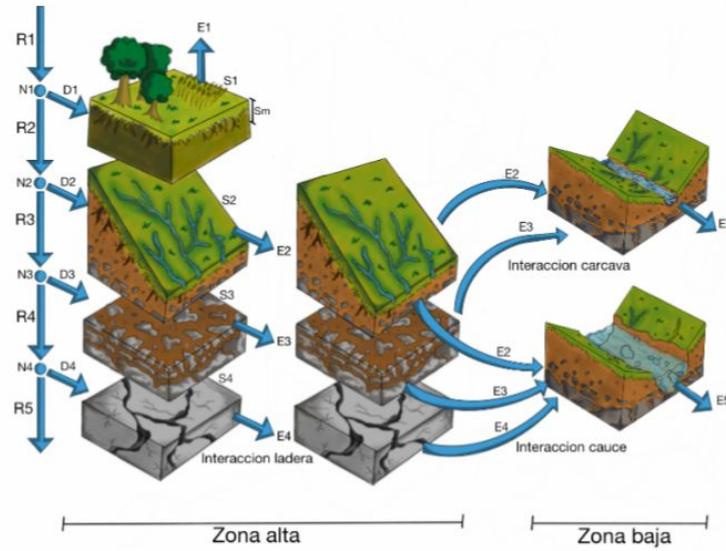
Precipitación



UNA NUBE



EMERGENCIAS



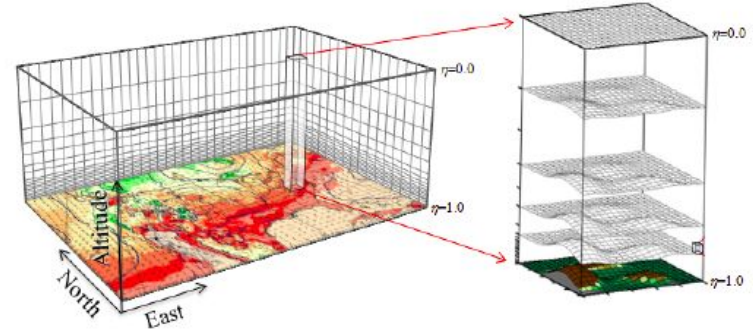
DATOS

MODELO NUMÉRICO

ERA5

RESOLUCIÓN E : $0.25^{\circ} \times 0.25^{\circ} \sim 30 \text{ km}$

RESOLUCION T : 1 hora



MODELO SATELITAL

IMERG

RESOLUCIÓN $0.1^{\circ} \times 0.1^{\circ} \sim 10 \text{ km}$

RESOLUCION T : 1 hora



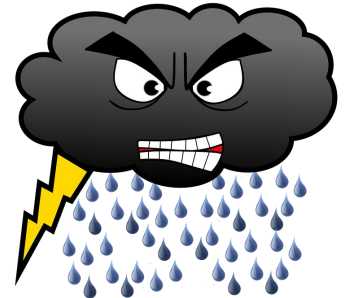
REGIÓN: SANTANDER

AÑO: 2018

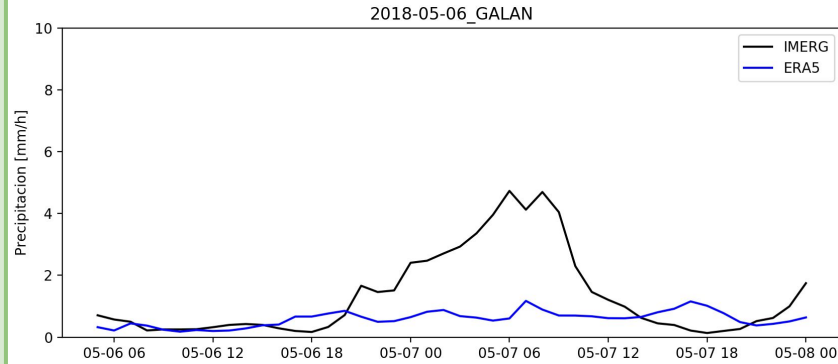
BASE DE DATOS EVENTOS

UNGRD

INUNDACIONES

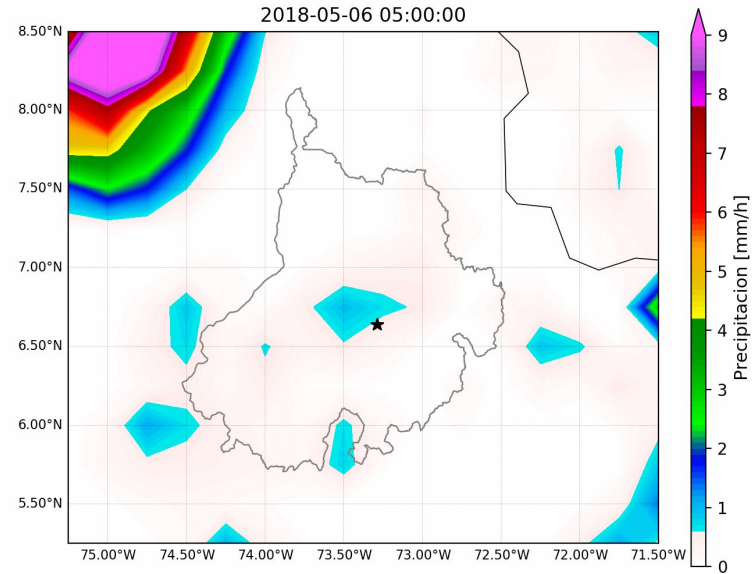
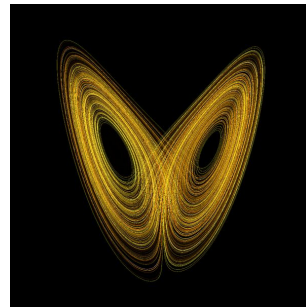


UN EVENTO



IMERG - Observaciones

**ERA5 - Modelación
numérica**



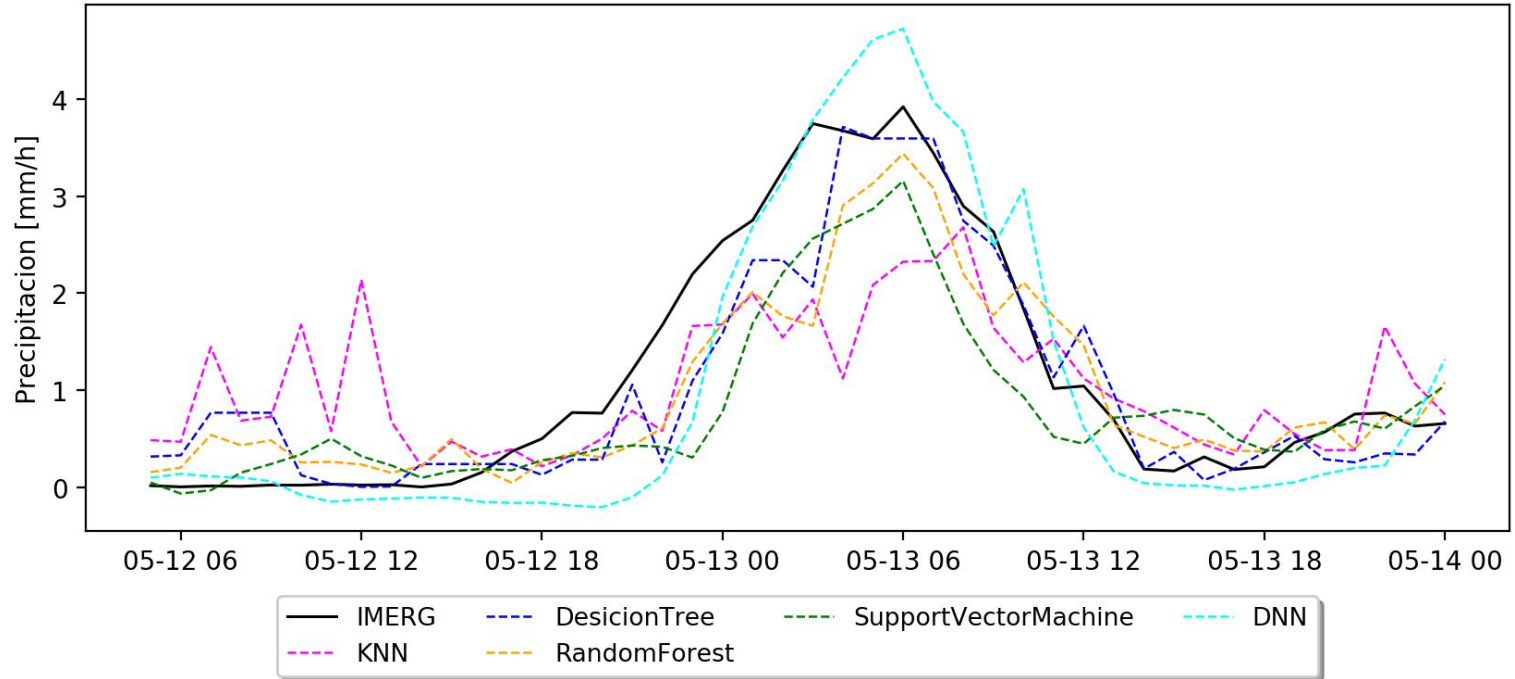
14 x 16 pixeles

224 celdas

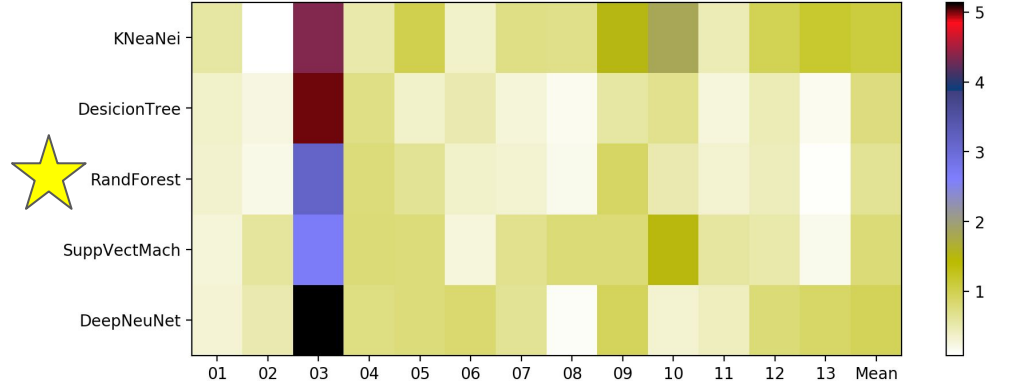
PRONÓSTICO

Entrenamiento = Año 2018 sin eventos ~ 90%

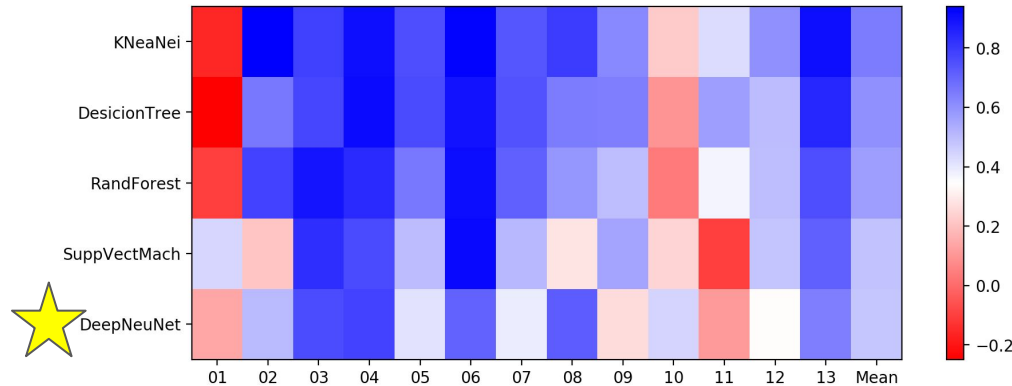
Test = eventos (13 total 44 h c/u) ~ 10%



EVALUACIÓN

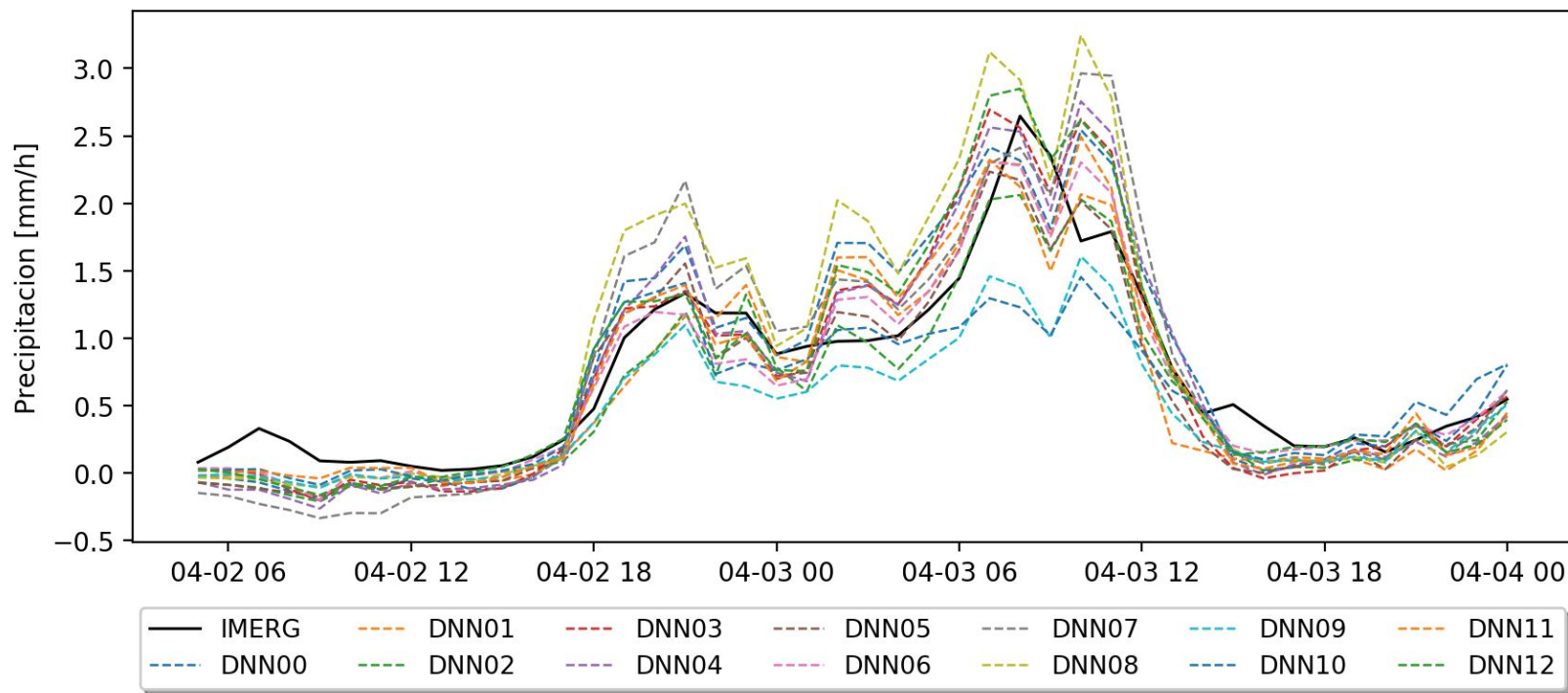


MSE

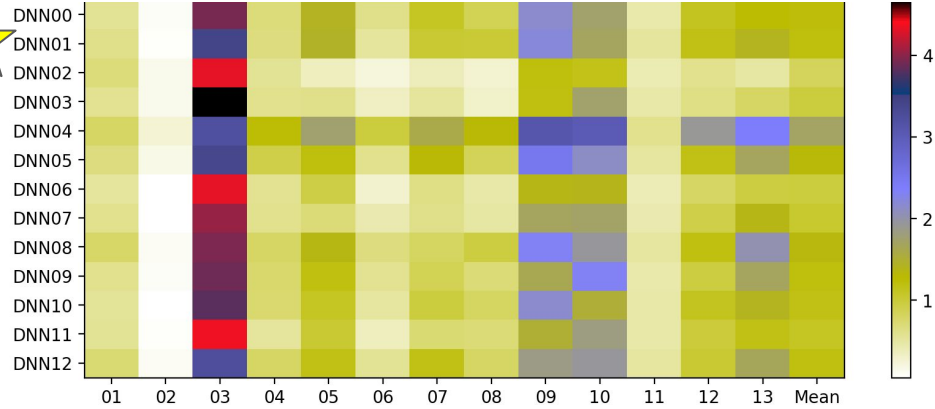


Correlación

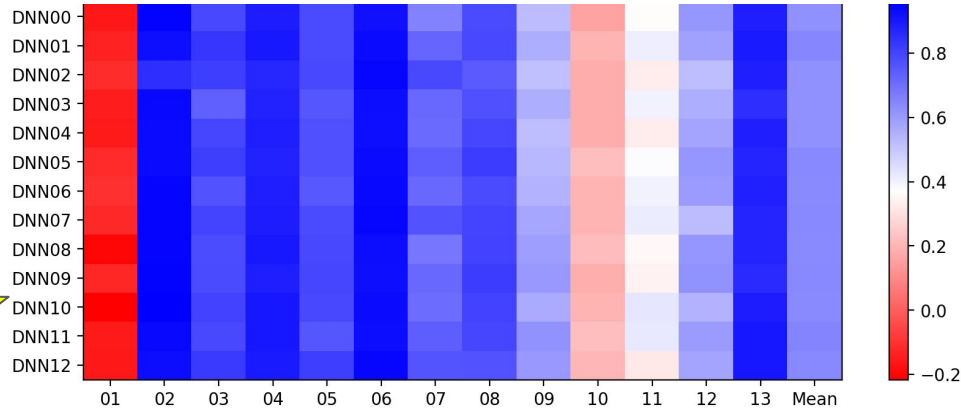
PRONÓSTICO



EVALUACIÓN DNN



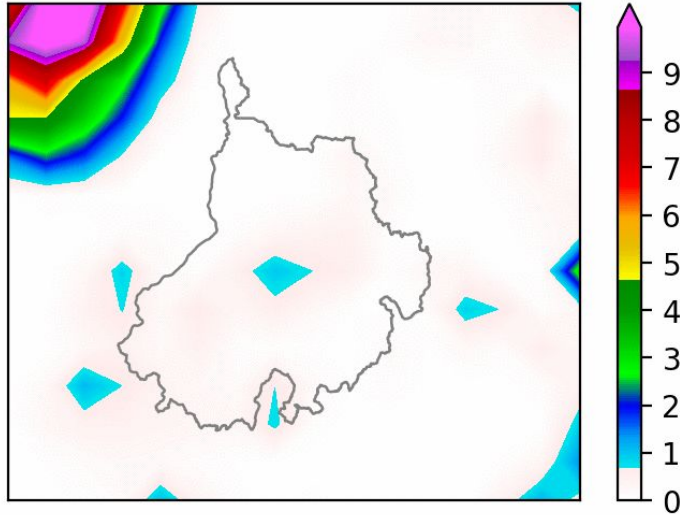
MSE



Correlación

DISTRIBUCIÓN ESPACIAL

IMERG



RFR

