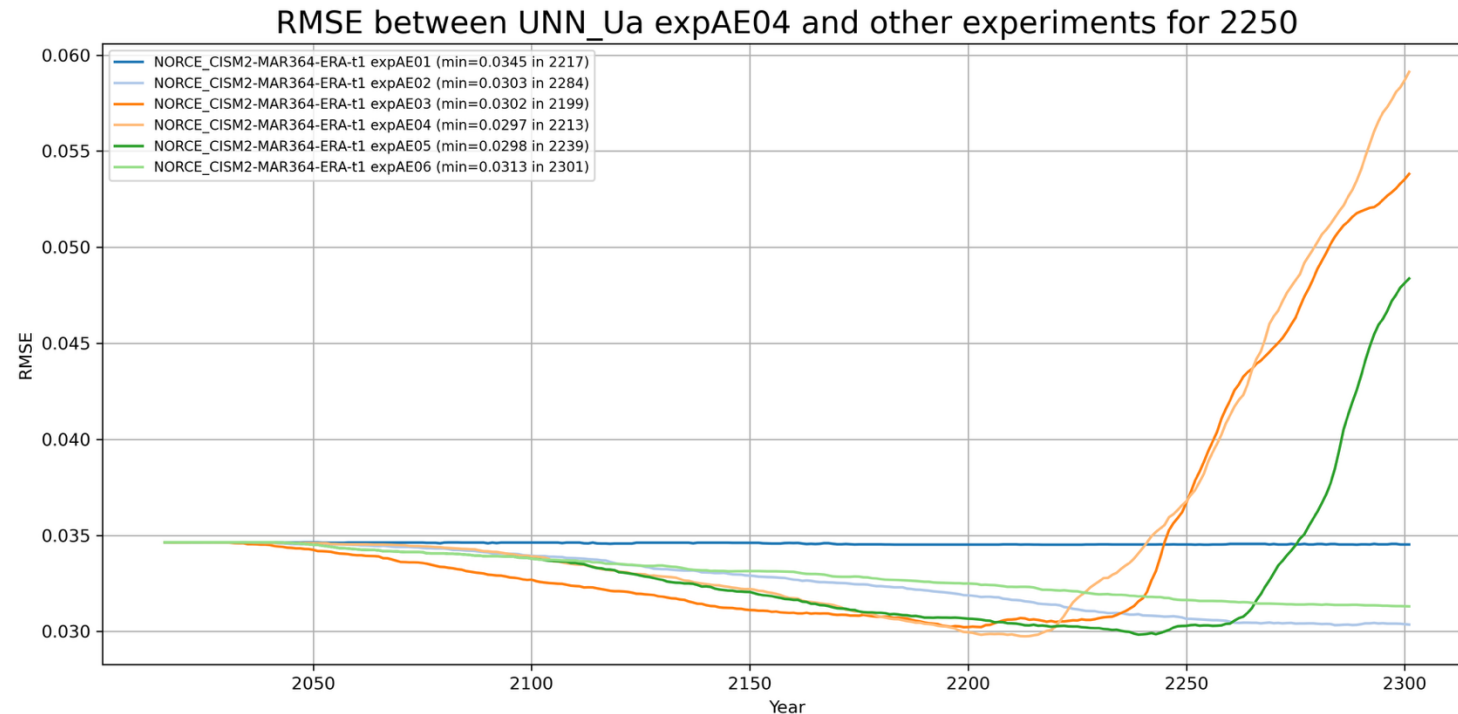


# Internal comparison of NORCE model with UNN Uà and RMSE over relative flux

16 Juillet 2025

Marine de Coatpont

# RMSE: target UNN\_Ua compared to NORCE

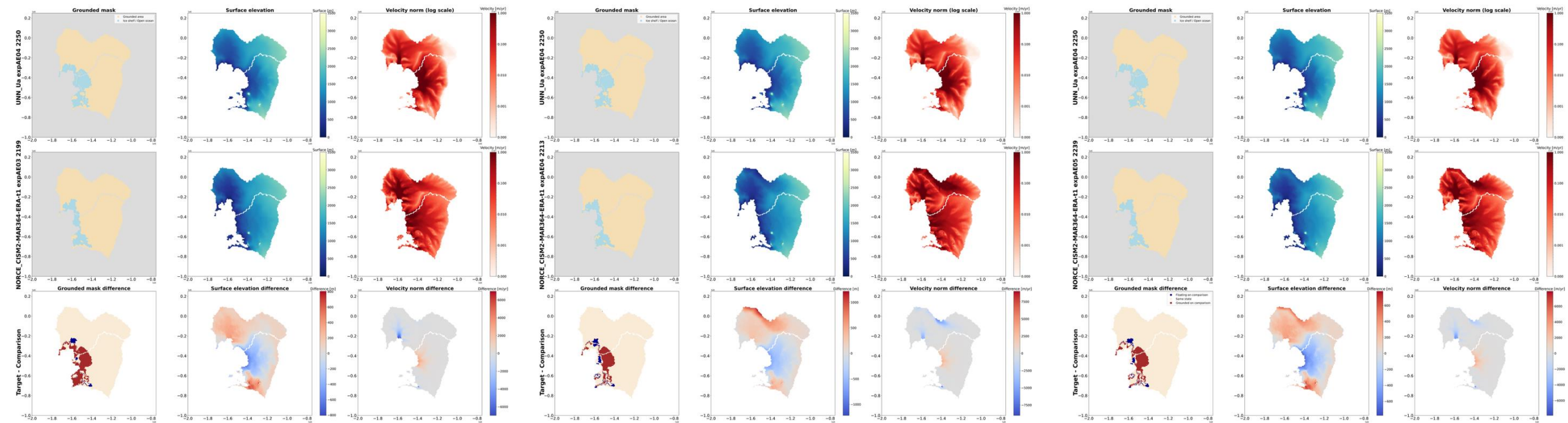


## RMSE min:

- expAE03
- expAE04
- expAE05

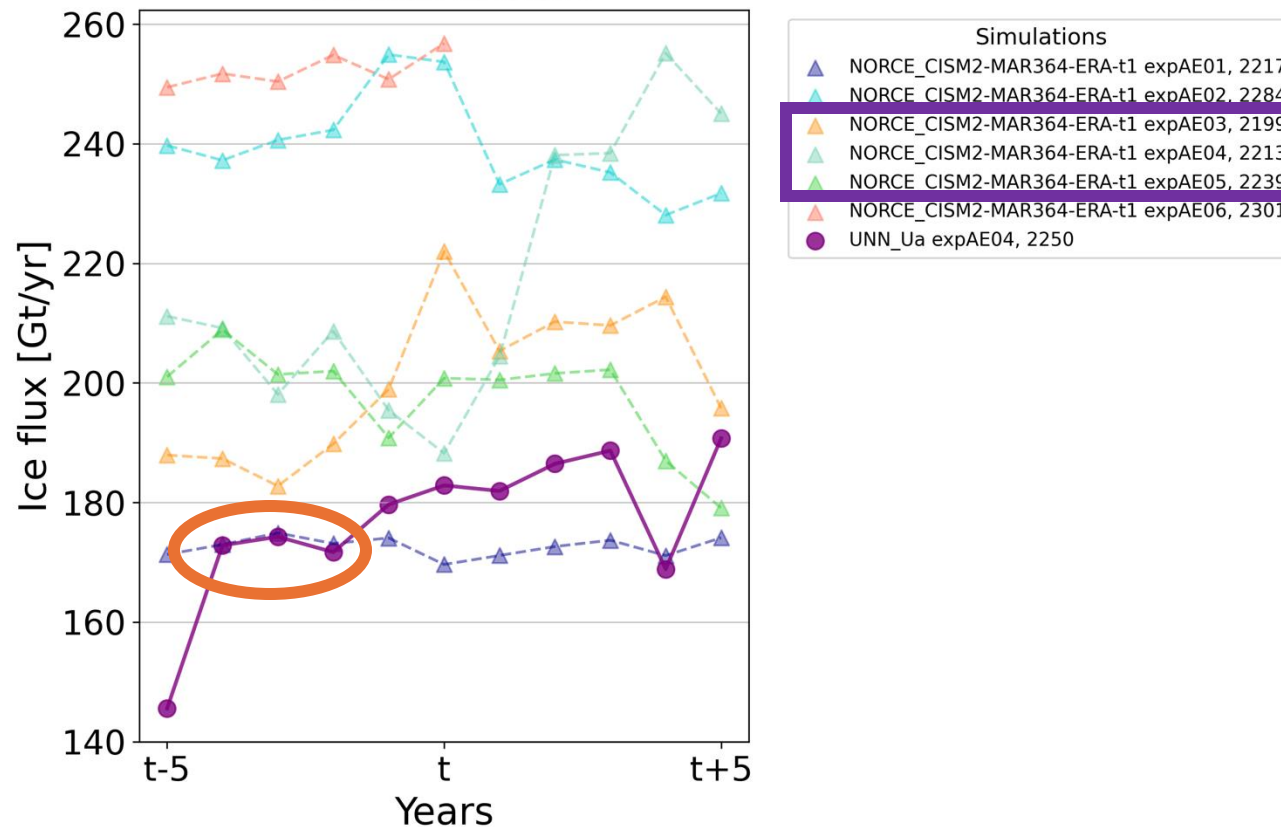
ISMIP6 - Antarctica 2300 Projections						
Experiment #	Experiment ID	Scenario	AOGCM	Ice shelf collapse	Forcing	Tier
1	expAE01	2,6	NorESM1-M	No	Repeat	Tier 1 (Table 1 wiki; core experiments)
2	expAE02	8,5	CCSM4	No	To 2300	
3	expAE03	8,5	HadGEM2-RS	No	To 2300	
4	expAE04	ssp585	CESM2	No	To 2300	
5	expAE05	ssp585	UKESM1-0-LL	No	To 2300	
6	expAE06	ssp585	UKESM1-0-LL	No	Repeat	

# Diagnostics of the best RMSE matches in NORCE experiments



# Ice flux at the grounding line in NORCE experiments

**Ice flux at the grounding line  
Amundsen**



**Best match with RMSE:**

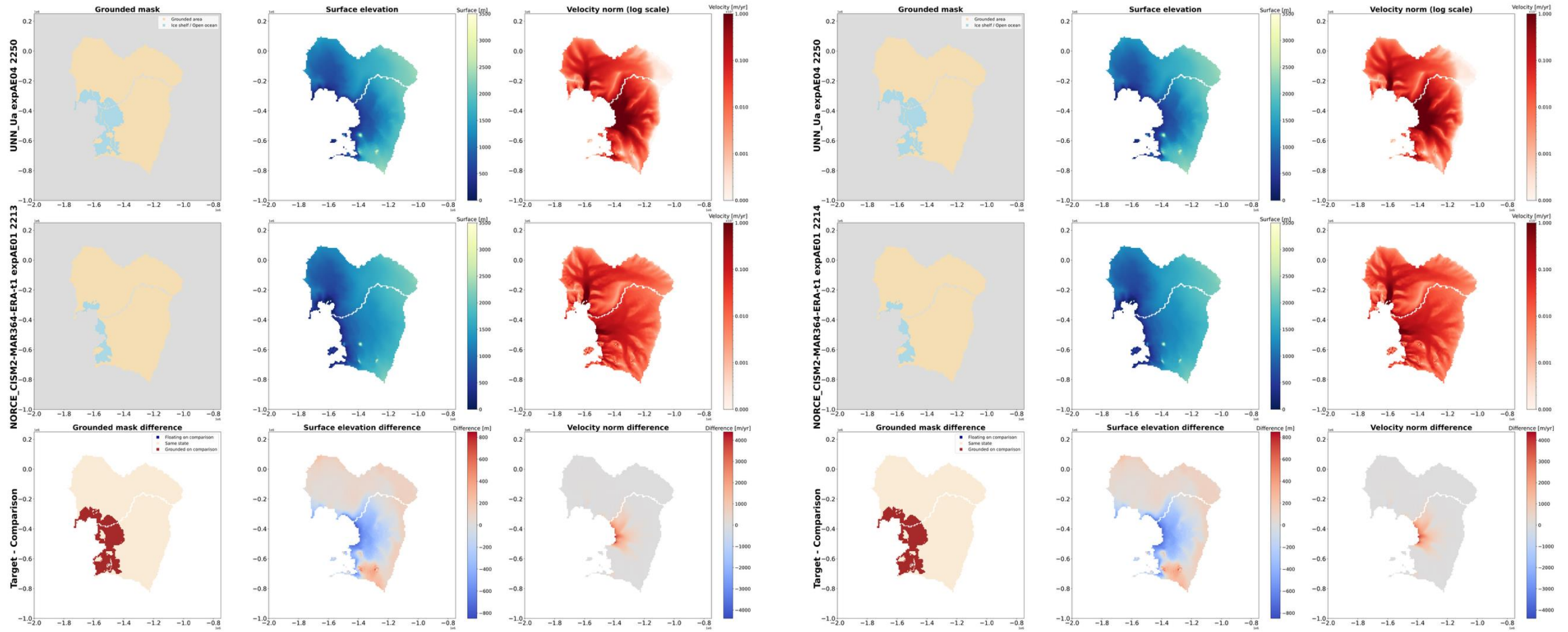
expAE03

expAE04

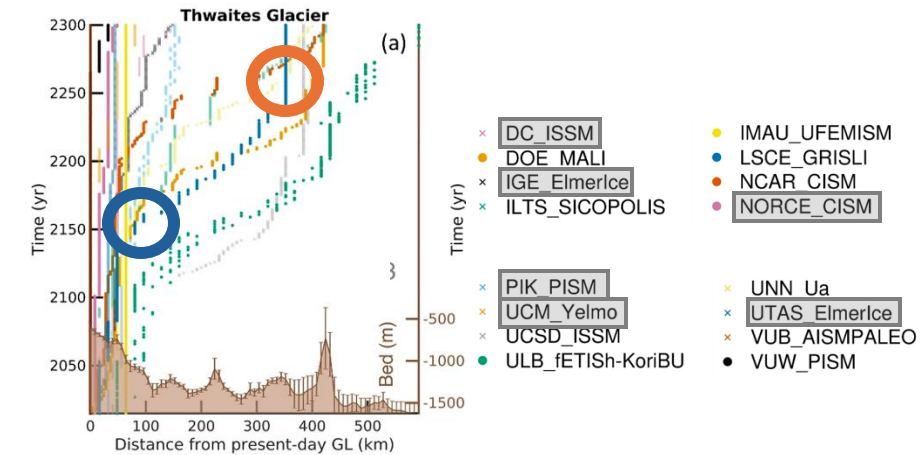
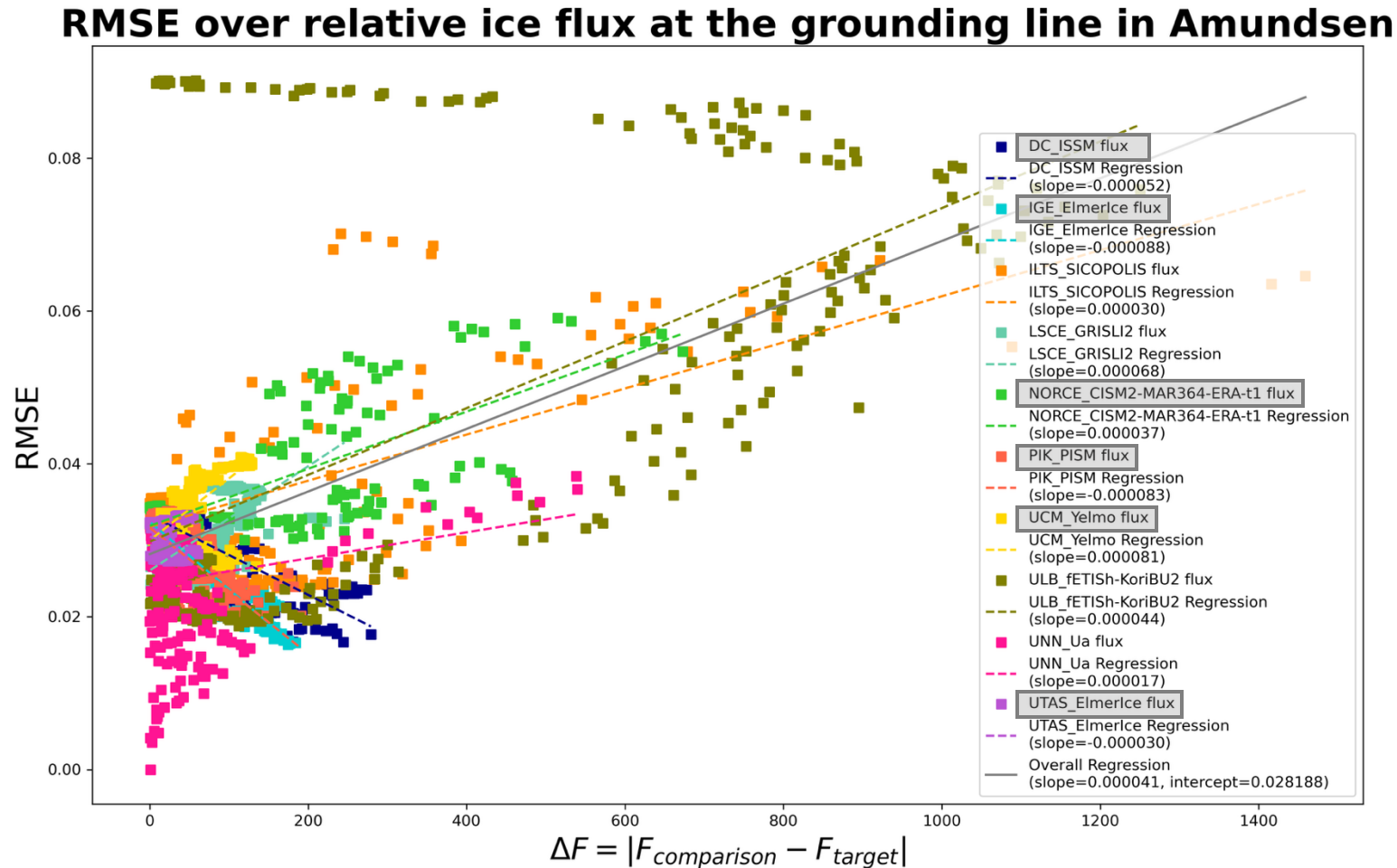
expAE05

**Matching flux** for expAE01  
for 2214 and 2213

# When NORCE flux matches UNN Uà



# RMSE over absolute relative ice flux



Modified figure from Seroussi 2024, evolution of the relative distance of the grounding line over the time