Tendency Error in a Climate Model: iterative estimation Michel Déqué, Météo-France, 42 Av. Coriolis, Toulouse, France

BACKGROUND

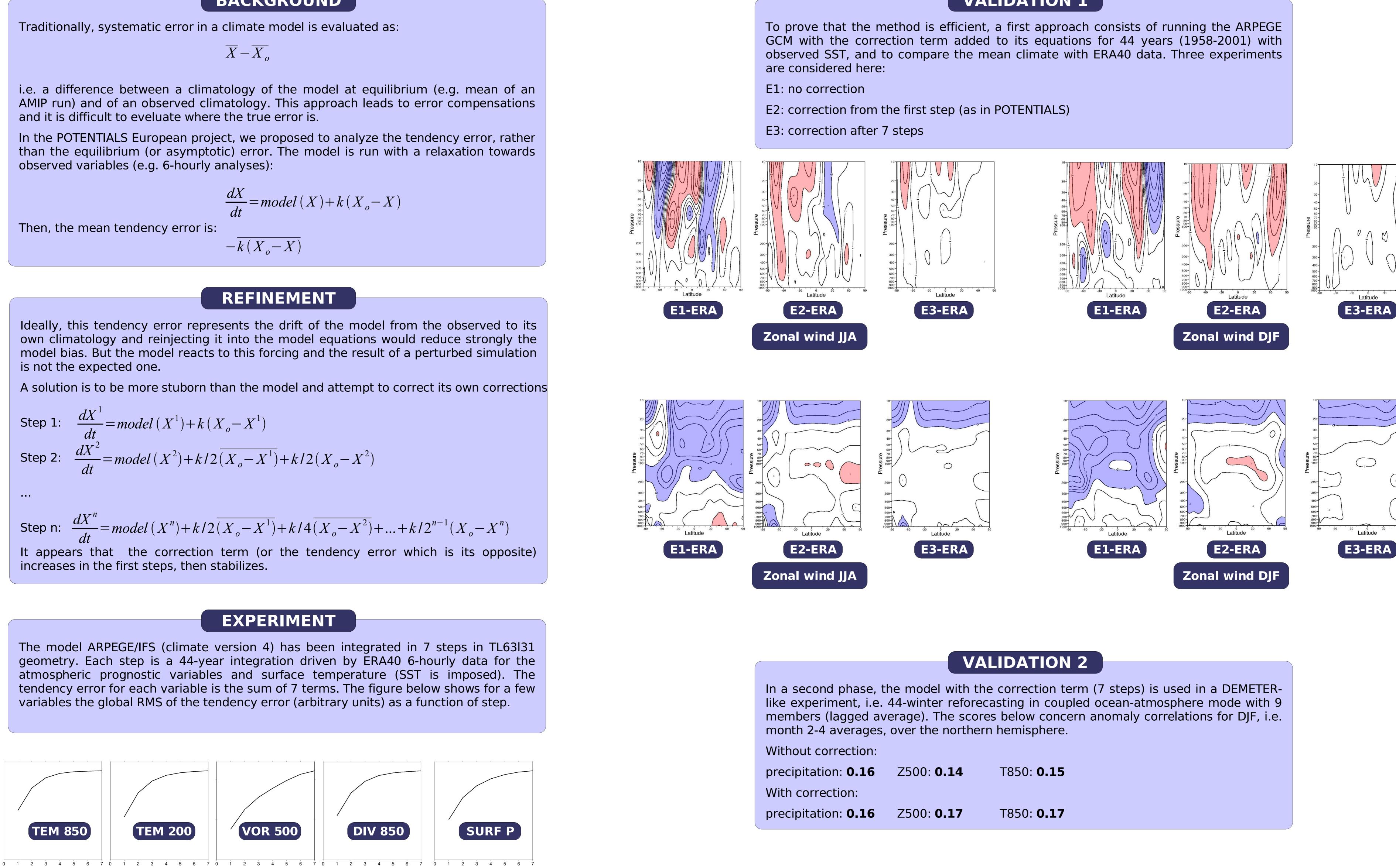
$$\overline{X} - \overline{X_o}$$

$$\frac{dX}{dt} = model(X) + k(X_o - \frac{1}{k(X - X)})$$

Step 1:
$$\frac{dX^{1}}{dt} = model(X^{1}) + k(X_{o} - X^{1})$$

Step 2: $\frac{dX^{2}}{dt} = model(X^{2}) + k/2(\overline{X_{o} - X^{1}}) + k/2(X_{o} - X^{2})$

Step n:
$$\frac{dX^{n}}{dt} = model (X^{n}) + k/2 \overline{(X_{o} - X^{1})} + k/4 \overline{(X_{o} - X^{2})} + k/4$$



VALIDATION 1

on: 0.16	Z500: 0.14	T850: 0.15
ction:		
on: 0.16	Z500: 0.17	T850: 0.17

