



## **Skill of hindcasts initialized through surface nudging**

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We present an evaluation of the IPSL decadal prediction system. The hindcasts are initialized through nudging towards observed SSTs, using a relatively weak damping coefficient ( $-40 \text{ W/m}^2/\text{K}$ ). It is shown that such strategy has a positive impact on the predictive skill of thermal characteristics of the ocean down to 300m for about 4 years both in the North Pacific and Atlantic. Regional origin for this skill is investigated. The effects of climate sensitivity bias, start date frequency as well as the ensemble size on the detection of skill are discussed.