

## ***Interactive comment on “A long-term record of blended satellite and in situ sea surface temperature for climate monitoring, modeling and environmental studies” by V. Banzon et al.***

**B. Buongiorno Nardelli (Referee)**

bruno.buongiornoardelli@cnr.it

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This paper provides a nice summary of the historical evolution of the SST L4 fields produced by NOAA. It then focuses on the most recent dOISST.v2 described in Banzon et al. (2014), providing examples of application for interannual/climatological studies. In fact, this product covers more than 30 years, going back to late 1981 and it has been identified by NOAA as an operational Climate Data Record. The paper is very clearly written and organized. However, I feel that the discussion on products' effective space-time resolution could be strengthened (e.g. by adding a comparative illustration of wavenumber spectra obtained from the different global analyses available, even at higher nominal resolution, as those developed in the framework of the European

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Space Agency Climate Change Initiative). As these aspects are quite relevant, clear messages would help scientific users to identify which product better fits their needs.

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