

OCEAN OPTICS XXIV

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<https://oceanopticsconference.org>

Monday, October 8

Poster Session 1

16:00–18:00

Poster 272

KEEPING AN EYEONWATER

Natural water color measurements are based on multi- and hyper-spectral measurements performed in the field and from space. A simpler approach to determine the color of natural waters is by means of the Forel-Ule color comparator scale, a scale that has been applied globally and extensively by oceanographers and limnologists since the 19th century. Since 2015 the EyeOnWater app and website aim to involve citizens in the observation of ocean color based on the Forel-Ule color comparator scale. Since then, over 4500 observations were gathered on a global scale, including open ocean, coastal and inland water measurements. Here we present a first statistical analysis of data availability, regional and temporal distribution. Furthermore we identify hot spots of EoW activities and connect them with historical measurements from the past century, a database of over 280.000 observations. We conclude with an outlook on the next steps of EoW, both in terms of technological development and its scientific valorization.

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