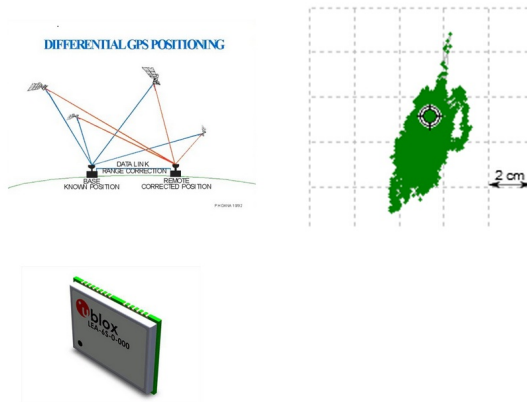


Evaluation of an Open Source Realtime-Kinematic GPS Software Library

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Abstract—The accuracy of GPS in general is about 10 meters. One possibility to get more exact values for the outdoor positioning solution is Real-Time Kinematic GPS (RTK-GPS). There is an open source library, written in ANSI-C, which provides algorithms using this method, called RTKLIB. It was developed at the Tokyo University of Marine Science and Technology and was published under the BSD 2-clause license. This paper will test the provided functions. It shows how robust they work in certain situations and provides measurements of the localisation results for both, static and moving objects. The standard deviation is determined and the measurements will be discussed.

I. GRAPHICS



REFERENCES

- [1] "Tokyo University of Marine Science and Technology," 2013. [Online]. Available: <http://www.rtklib.com>