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- Vehicle design and performance

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2. Hobson et al., "Tethys-Class Long Range AUVs – Extending the Endurance of Propeller-Driven Cruising AUVs from Days to Weeks," *Proc. IEEE AUV'2012*, pp. 1-8, Southampton, U.K., September 2012.

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- Software architecture

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2. Raanan et al., "A Real-time Vertical Plane Flight Anomaly Detection System for a Long Range Autonomous Underwater Vehicle," *Proc. MTS/IEEE Oceans'15*, pp. 1-6, Washington, D.C., U.S.A., October 2015.

- Acoustic tracking

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- Targeted sampling and scientific applications

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4. Zhang et al., "Autonomous 4-D Mapping and Tracking of a Coastal Upwelling Front by an Autonomous Underwater Vehicle," *Journal of Field Robotics*, Vol. 33, No. 1, pp. 67-81, January 2016
5. Zhang et al., "Tracking and Sampling of a Phytoplankton Patch by an Autonomous Underwater Vehicle in Drifting Mode," *Proc. MTS/IEEE Oceans'15*, pp. 1-5, Washington, D.C., U.S.A., October 2015.
6. Zhang et al., "Isothermal Tracking by an Autonomous Underwater Vehicle in Drifting Mode," *IEEE Journal of Oceanic Engineering, in review.*
7. Zhang et al., "Evolution of a physical and biological front from upwelling to relaxation," *Continental Shelf Research*, Vol. 108, pp. 55-64, October 2015