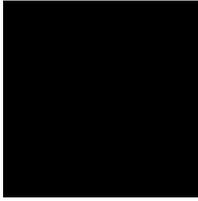


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Paradigm change in Earth Observation; SkySat-1 and the Skybox Constellation

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ABSTRACT

Skybox Imaging is building a constellation of high-resolution Earth imaging micro-satellites and high performance data platform to provide revolutionary insight into global activity for business and consumers. In 2013, Skybox launched its first satellite, SkySat-1 as the pathfinder to a constellation eventually consisting of 18-24 spacecraft. SkySat-1 is one of the highest performance microsattellites ever launched and is prime example of the revolutionary potential of the SmallSat ethos applied in a commercial application.

This paper begins with a high-level overview of Skybox Imaging and its mission. It then goes on to discuss the unique design approach at Skybox and the critical engineering ingredients that have enabled such a powerful spacecraft in a small package and at low cost.

Finally we give a preview of the 18-24 satellite constellation design, concept of operations and applications which it will enable.