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Off-The-Grid Meteorological radar

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Precipitations in remote mountainous areas are often the source of flooding in downstream areas of the catchment. Due to the mountains and the lack of infrastructure, it is often impossible to obtain timely information on this danger. This paper describes the possibility for using the Furuno WR-2100, a fully equipped dual polarized, Doppler weather radar, as an Off-The-Grid (OTG) device powered by solar panels and communicating with the flood forecasting center by satellite link. The radar is equipped with a GPS compass insuring exact knowledge on coordinates, orientation and time. The paper describes the conditions under which solution is possible.