

Co-developing a SAR for Disasters Reference Guide for the International Applications Community

Vanesa Martin-Arias^{1,2}, Eric R. Anderson², Franz J. Meyer³, Tannia Margarita Torres⁴, Leah M. Kucera^{1,2}, Kel Nicolas Markert², Jordan R. Bell¹, Lori A. Schultz¹, Paul A. Rosen⁵, Africa Flores Cordova^{1,2}, Emil Cherrington^{1,2}, Batuhan Osmanoglu⁵, Robert Griffin^{1,2}

¹University of Alabama in Huntsville, Earth System Science Center, Huntsville, AL, USA
²NASA SERVIR Science Coordination Office, Huntsville, AL, USA
³University of Alaska Fairbanks, Fairbanks, AK, USA
⁴Universidad Central del Ecuador, Quito, Ecuador
⁵NASA Jet Propulsion Laboratory, Pasadena, CA, USA

Introduction & Motivation

Synthetic Aperture Radar (SAR) data are widely applicable for disaster monitoring, especially in Central and South America where atmospheric effects are a frequent obstacle to using optical data.

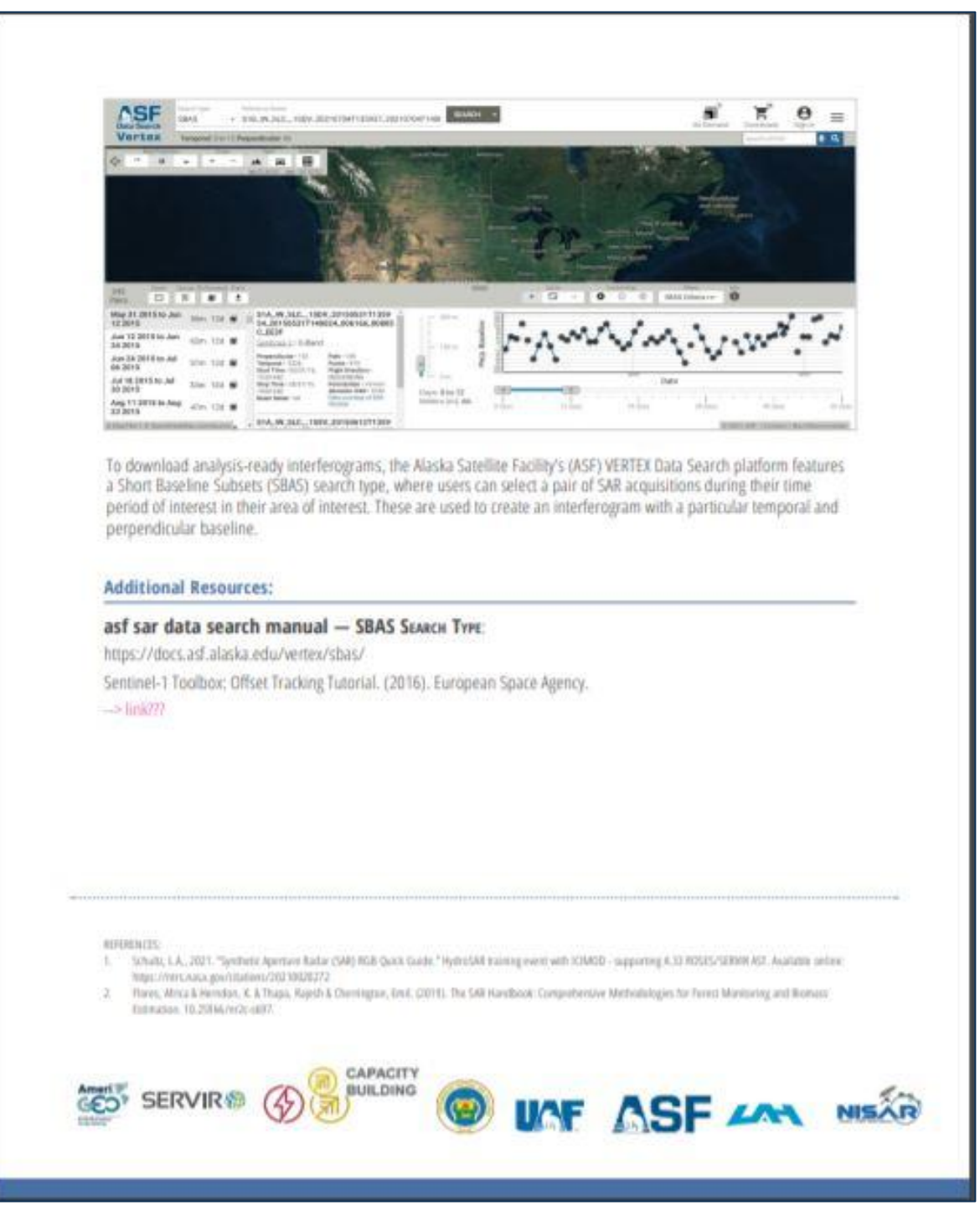
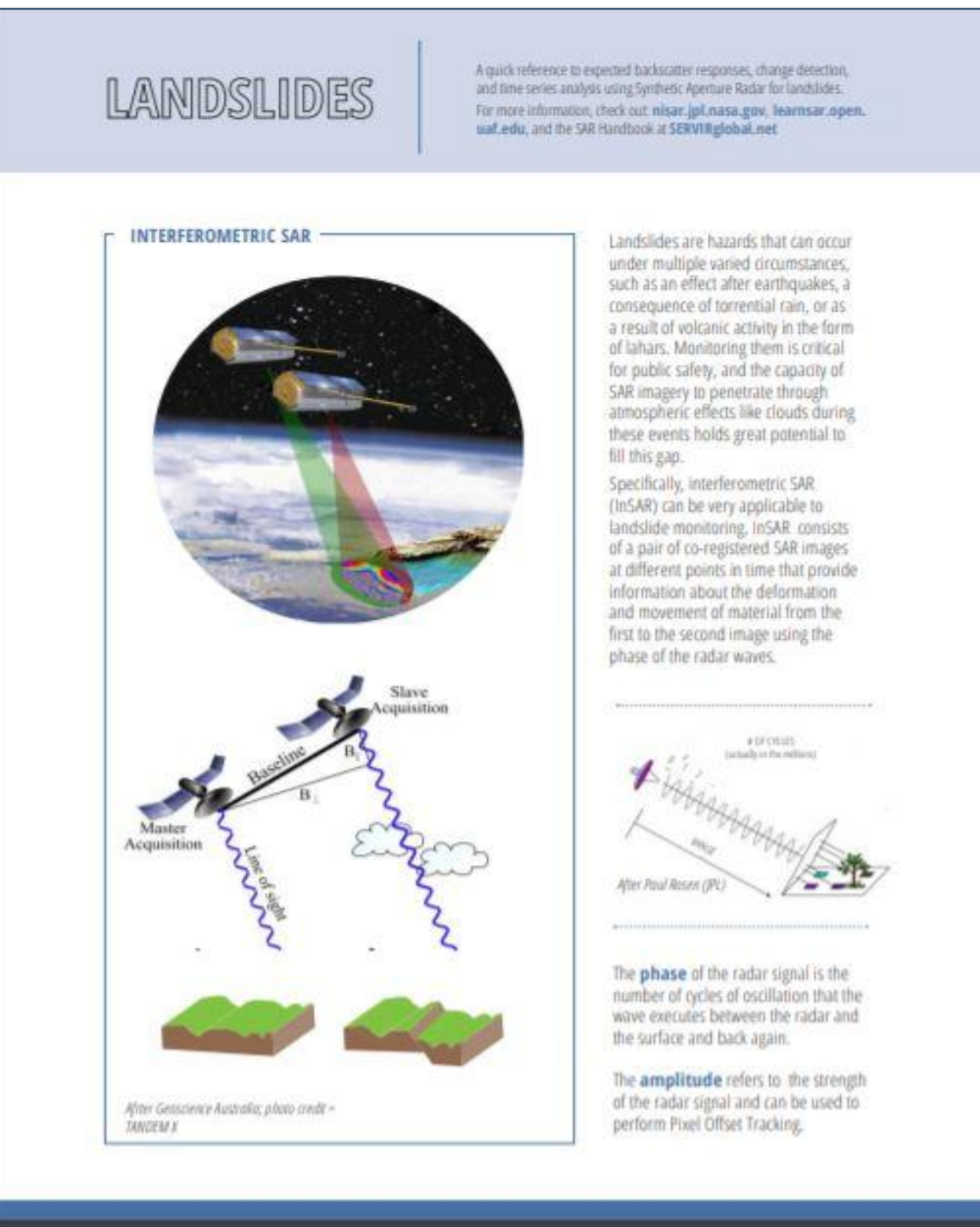
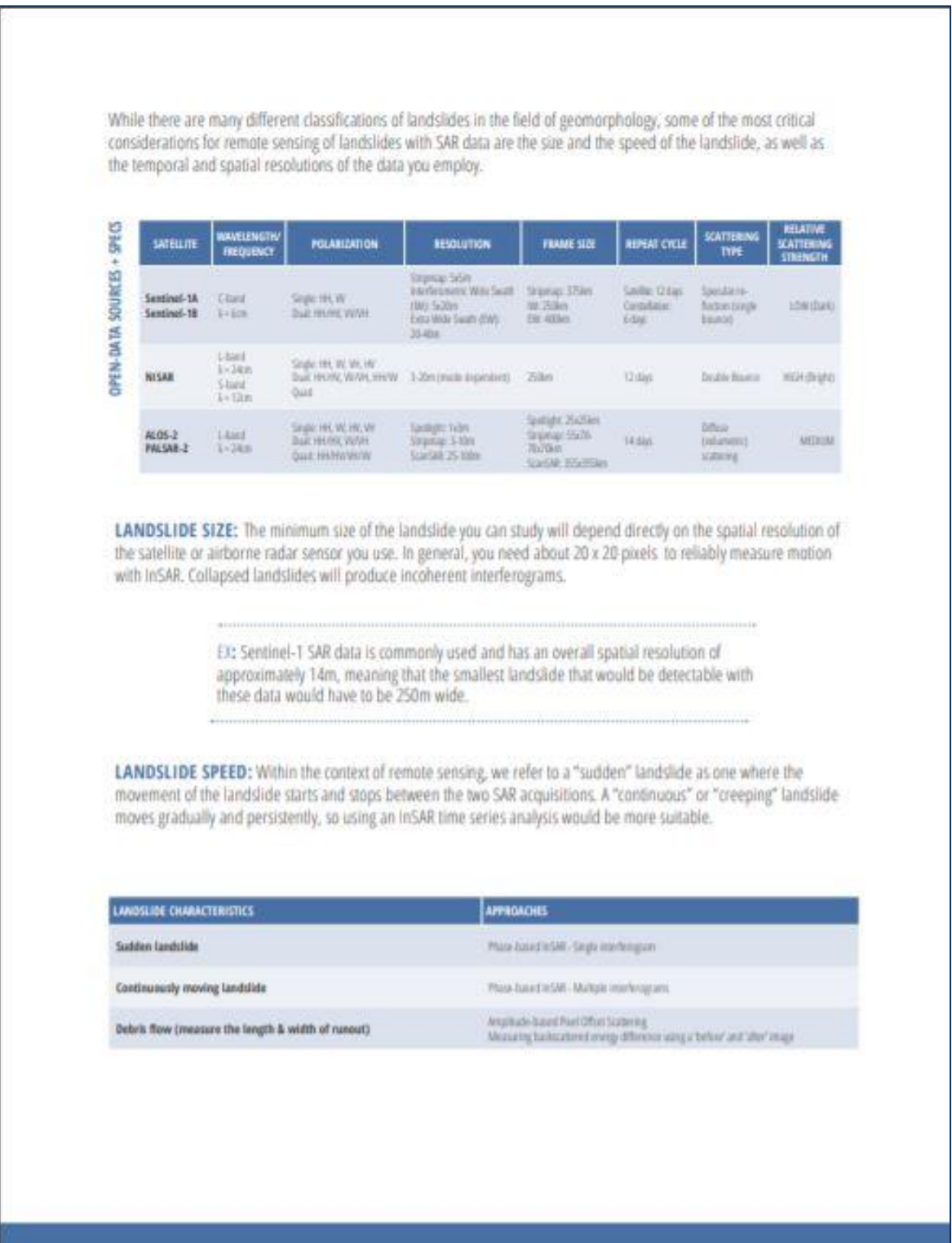
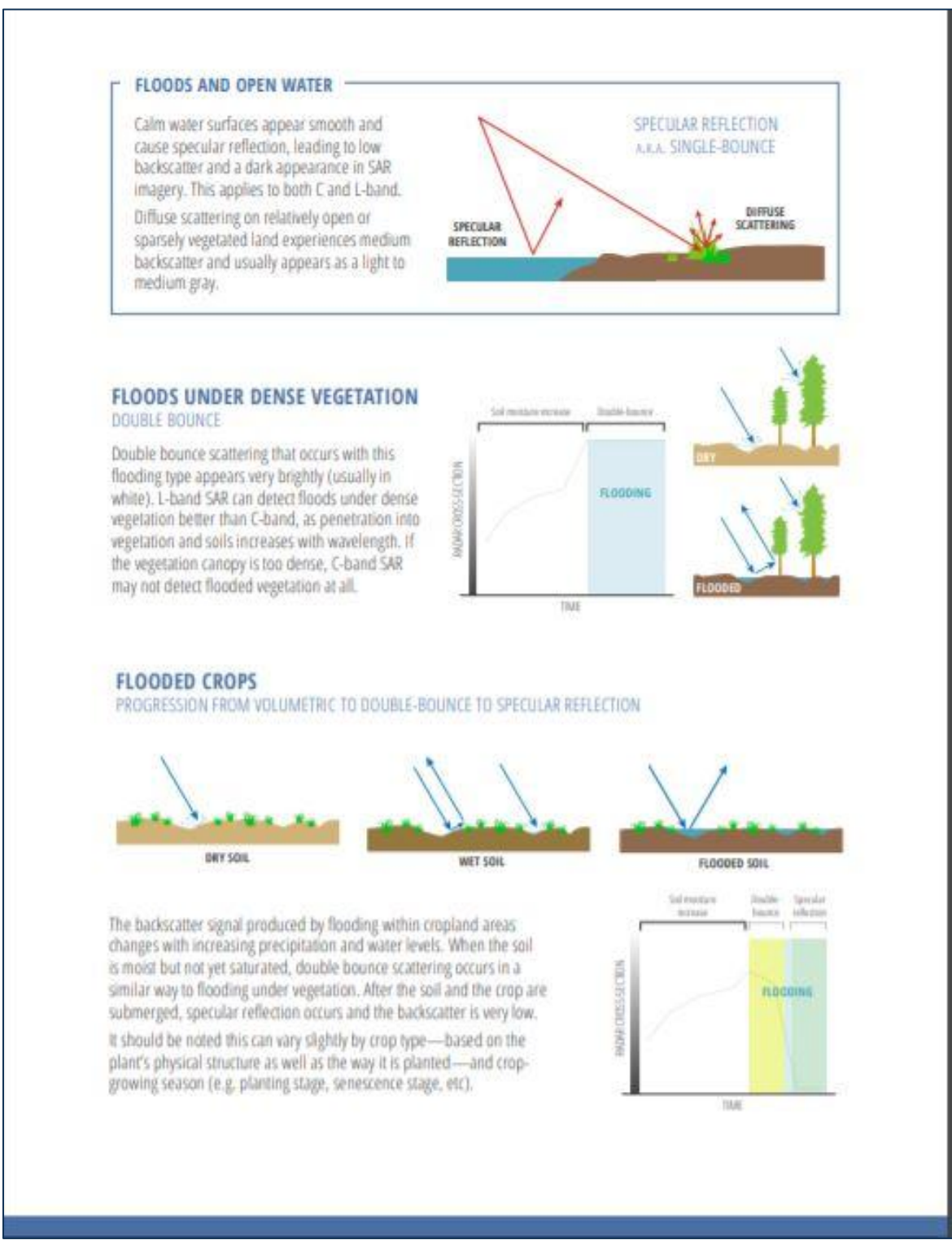
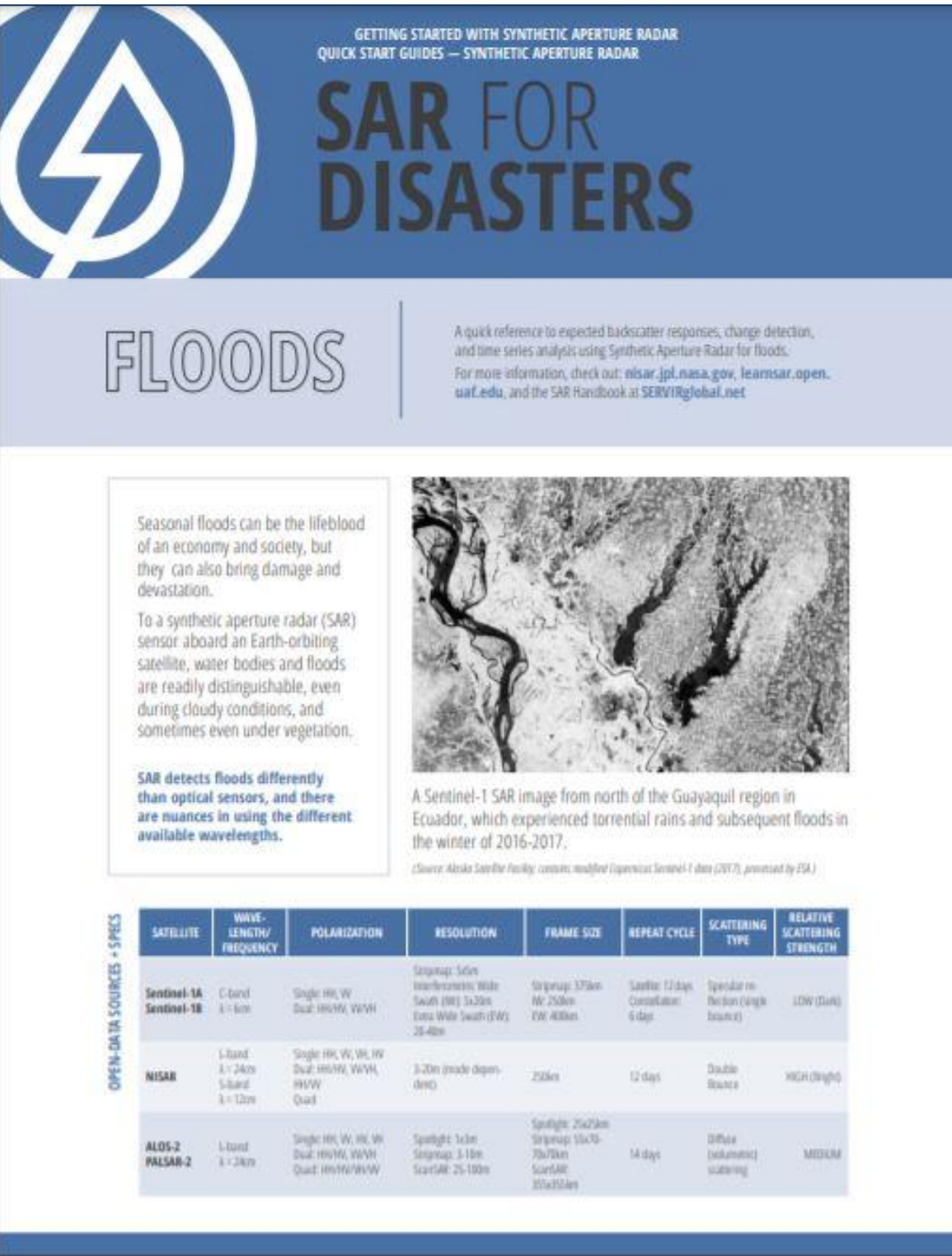
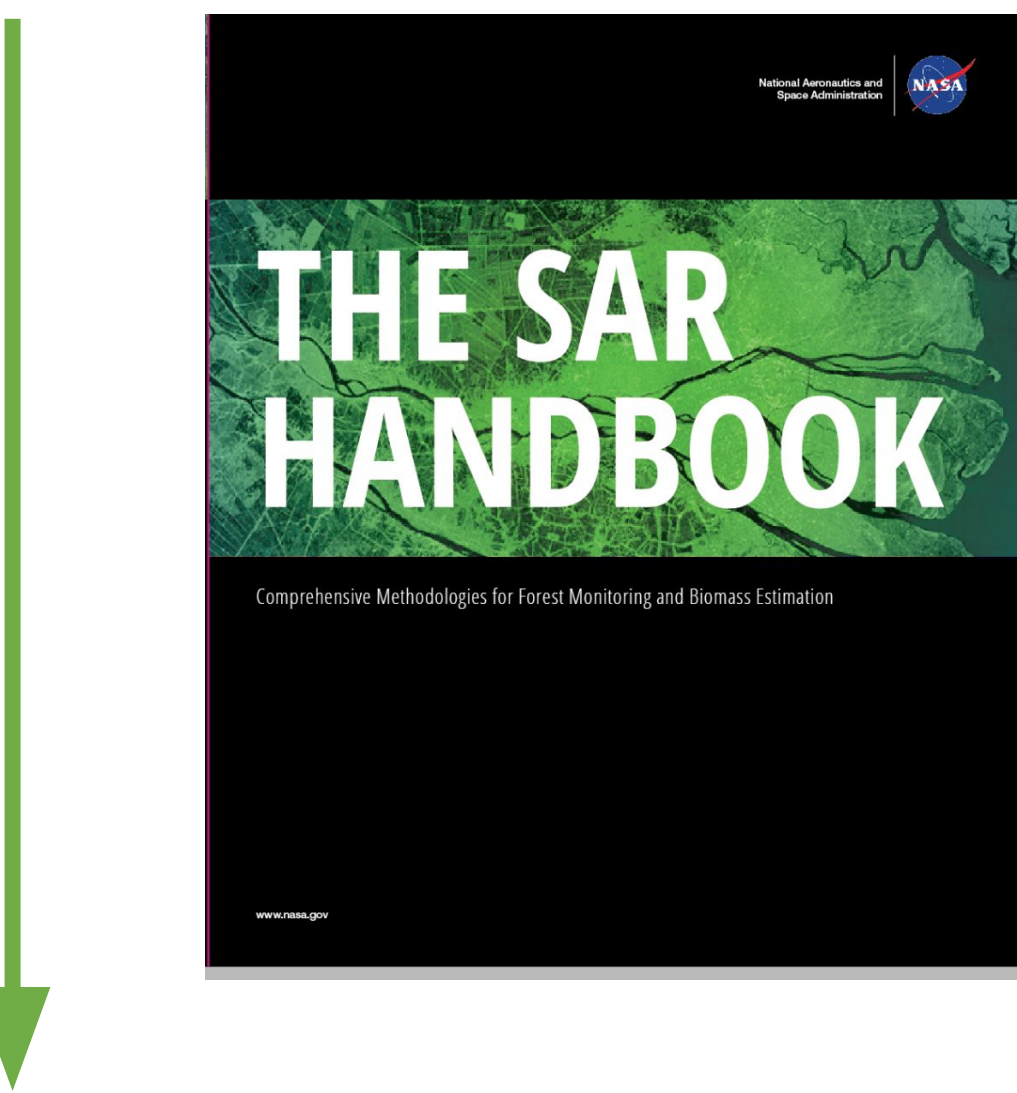
There is a growing interest in the application of SAR data to diverse disasters, ranging from landslides to volcanic eruptions and floods. With this interest comes a growing need for user-friendly guides that facilitate the integration of SAR into existing workflows. A joint effort between AmeriGEO, university networks in the Americas, NASA SERVIR's Science Coordination Office (SCO), and the NASA Earth Science Disasters Program, culminated in the pilot “SAR for Disasters” Guide. The guide is modeled after the one-page informational sheets created for the SAR Handbook project, with the aim to succinctly communicate key considerations needed to apply relevant analyses using SAR.

Developed with contributors from diverse backgrounds, this guide is designed to be a useful reference for experienced technical users and beginners alike.



Objective

Produce easily accessible and digestible reference guides for the application of SAR data to multiple types of hazards and natural disasters.



Please provide your feedback on the reference guides using this QR Code!

We aim to collect community feedback from various types of SAR users in order to make the guides as clear, accurate, and user-friendly as possible.

The NASA-funded SAR Capacity Building Center (SAR-CBC) project conducts SAR trainings and needs assessments in Latin American partner institutions, in support of the AmeriGEO work program. Participants expressed interest in quick SAR reference guides for hazard and natural disaster applications.

These reference guides are modeled after the one-page informational guides from the SAR Handbook, published in 2019. The SAR Handbook focused on Forest Monitoring and has been accessed over **1 million times** in **180+ countries**.

We opted to begin with **floods and landslides** as the first reference guide topics given a wide interest in these applications from participants in SAR-CBC trainings.

We plan to expand the series to other applications in the near future with the help of SAR experts and community input. Final versions of the guide will be translated into multiple languages in order to ensure their wider accessibility.



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