

Metadata Report

Project Name

Garopaba Dune Field, Santa Catarina State, Brazil. SfM-MVS point cloud

Summary

Survey conducted under research grant FAPESP #2016/06628-0 “Application of high-resolution digital elevation models in geology and geomorphology”. Data derived from this survey is being compared with airborne LiDAR data from the same dune field collected in 2010, to evaluate dune migration and volume change.

Personnel

- PI: Carlos Henrique Grohmann
- Field staff: Alynne Almeida Affonso, Guilherme P.B. Garcia, Rafael W. de Albuquerque

Site Information

- Coastal dune field, north of the Garopaba city, Santa Catarina State, southern Brazil
- UAV flights for SfM-MVS reconstruction
- UTM 22 South LL: 732000/689900, UR:733000/6901000
- Cloudy/Clear sky
- Field work February 26-28, 2019

Survey Results

- UAV: DJI Phantom 4 Pro
- 6 GCPs collected with Spectra Precision SP60 DGPS
- GCPs Processing report attached



Products

- Date of dataset collection: February 26-28, 2019
- Coordinate System: UTM 22 South (EPSG: 32722)
- Spatial Resolution: DEM: 6 cm
- Horizontal Accuracy
- Vertical Accuracy
- Format: GeoTIFF
- Data processing methods: SfM-MVS (Agisoft Metashape Pro 1.5.1)

Misc Notes