

Technical Guidelines for Small Island Mapping with UAVs

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Abbreviations

2D two-dimensional

ADS-B Automatic Dependent Surveillance–Broadcast

AGL above ground level

AOI area of interest

AT automatic triangulation

ATC air traffic control

CAA Civil Aviation Authority

CV computer vision

DSLR digital single-lens reflex

DSM digital surface model

DTM digital terrain model
EXIF exchangeable image file format
GCP ground control point
GeoTIFF Georeferenced Tagged Image File Format
GIS geographic information system
GPS Global Positioning System
GPU graphics processing unit
HOT Humanitarian OpenStreetMap Team
IMU inertial measurement unit
LiDAR Light Detection and Ranging
LiPo lithium polymer
NIR near infrared
NOTAM Notice to Airmen
OAM OpenAerialMap
OSM OpenStreetMap
PacDID Pacific Drone Imagery Dashboard
PIC Pacific Island Country
PPK Post-Processed Kinematic
RGB red-green-blue
RTK Real-Time Kinematic
SfM Structure from Motion
SIDS Small Island Developing States
SSD solid-state drive
UAV unmanned aerial vehicle
UAViators Humanitarian UAV Network
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