

Global Lidar Altimetry MISsion: GLAMIS

University of Edinburgh:

Space Flow Ltd.:

Fraunhofer Centre for Applied Photonics:

**UK Astronomy Technology Centre:** 

RedWave Labs:

Alter Technology UK:

University of Strathclyde/Manchester:

Steven Hancock, Matthew Purslow, Robbie Ramsay, Johannes Hansen, Ian Davenport, Euan Mitchell, Iain Woodhouse, Kristina Tamane

Callum Norrie

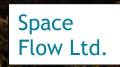
Peter Schlosser, Jack Thomas, Emma Le Francois, Gerald Bonner, Haochang Chen, Ludwig Prade

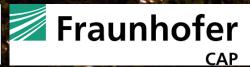
Patrick Smith, Stephen Todd, David Lunney, Donald Mcleod

Andrew Ogden, Dmitry Permogorov

Ben Gore, William Dorward

Ciara McGrath, Chris Lowe









GLAMIS











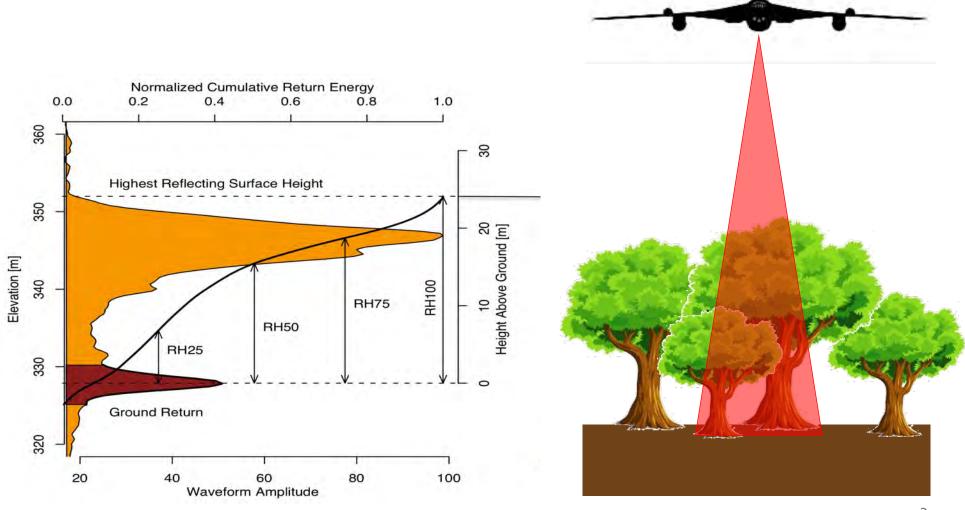
## Need for structure data





# Lidar measurement





### Lidar data



#### Lidar is the only way to directly measure

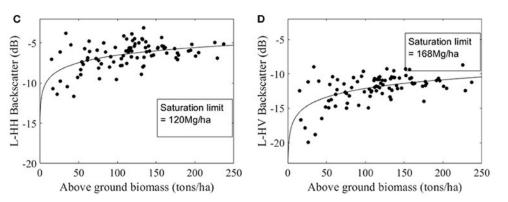
- Bare-Earth topography
- Tree height and cover

#### This enables (amongst others)

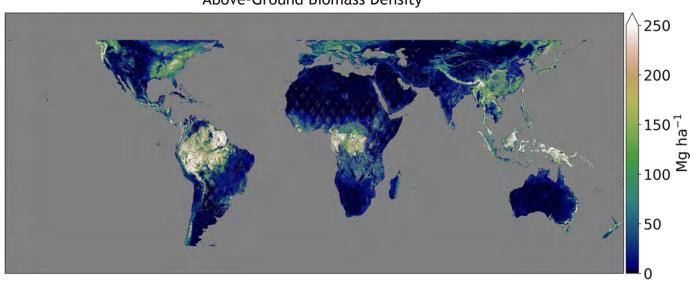
- Flood modelling
- Biomass mapping (underpins many other efforts)

#### Many remote sensing techniques are collected operationally

- There are no globally continuous lidar datasets
- There is no long-term (decadal) lidar dataset



**Above-Ground Biomass Density** 



Musthafa, M. and Singh, G., 2022. Improving Forest Above-Ground Biomass Retrieval Using Multi-Sensor L-and C-Band SAR Data and Multi-Temporal Spaceborne LiDAR Data. Front. For. Glob. Change, 5, p.822704.