

## Theme: Forest Monitoring Research Challenges

### Reference

Misiukas, J.M., Carter, S., Herold, M., 2021. Tropical Forest Monitoring Challenges and Recent Progress in Research. *Remote Sensing (accepted)*.

### Files

#### Research\_Challenges.xlsx

Excel file with 35 tropical countries with the following attributes:

Column name	Description
GID_0	Country ISO3 Code
Country	Country name
N_studies	Total number of studies in which the country has been the target of research
U_studies	Total number of studies in which the country has been the only target of the study, or the target together with neighbouring countries with the same conditions
Frequency_Research	Frequency of research in the country
Affiliated	Frequency of research in the country where the author is affiliated with
Sentinel	Number of studies per country using Sentinel
Landsat	Number of studies per country using Landsat
MODIS	Number of studies per country using MODIS
O_Sensors	Number of studies per country using other sensors
M_Sensors	Number of studies per country using other multi-resolution sensors
ARD	Percentage of studies in the country that were related to Analysis Ready
Activity	Percentage of studies in the country that were related to Activity Data
Land_use	Percentage of studies in the country that were related to Land Use and Land Management
Biomass	Percentage of studies in the country that were related to Biomass and Carbon Stocks
NRT	Percentage of studies in the country that were related to Near-Real Time
Methods	Percentage of studies in the country that were related to development of methods and platforms
Conditions	Classification of the country regarding the biophysical conditions (based on the presence of dry forests and mangroves)
Influences	Classification of the country regarding the anthropogenic influences (based on biomass loss, carbon emission, tree cover loss and proportion of burned area)
Monitoring	Classification of the country regarding the forest monitoring capacities (based on indicators of forest inventory capacity, area change and remote sensing capacity and carbon emissions reporting, internet subscription per 100 inhabitants, reporting on FRA variables and participation on REDD programmes)
Class	Final classification of the country considering the biophysical conditions, the anthropogenic influences, and the forest monitoring capacities

Score and classification are related in the following way:

Score	Classification
1	Least challenging
2	Less challenging
3	Challenging
4	More challenging
5	Most challenging

