

**Table S1.** List of abbreviations.

Abbreviation	Description
A	Area of the reiver channels
ALOS	Advanced Land Observing Satellite
Dd	Drainage Density
DTM	Digital Terrain Model
GPDEN	Natural Disaster Research Group
GU	Geomorphological units
Li	Drainage network channels
LULC	Land Use and Land Cover
LULCC	Land Use and Land Cover Changes
MAP	Mosaics of Agriculture and Pasture
MH	Mãe dos Homens Community
MH – F	Intersection of Mãe dos Homens Community and Floodplain
MH – H	Intersection of Mãe dos Homens Community and Hillslope
MH – P	Intersection of Mãe dos Homens Community and Plateau
NP	National Park
NP – F	Intersection of National Parks and Floodplain
NP – H	Intersection of National Parks and Hillslope
NP – P	Intersection of National Parks and Plateau
NP-MH	Intersection of National Parks and the Mãe dos Homens Community
NP-MH – F	Intersection among National Parks, Mãe dos Homens Community and Floodplain
NP-MH – H	Intersection among National Parks, Mãe dos Homens Community and Hillslope
NP-MH – P	Intersection among National Parks, Mãe dos Homens Community and Plateau
NP-QSR	Intersection of National Parks and the Quilombola São Roque Community
NP-QSR – F	Intersection among National Parks, Quilombola São Roque Community and Floodplain
NP-QSR – H	Intersection among National Parks, Quilombola São Roque Community and Hillslope
NP-QSR – P	Intersection among National Parks, Quilombola São Roque Community and Plateau
OTC	Other Temporary Crops
PALSAR	Phased Array type L-band Synthetic Aperture Radar sensor
QSR	Quilombola São Roque Community
QSR – F	Intersection of Quilombola São Roque Community and Floodplain
QSR – H	Intersection of Quilombola São Roque Community and Hillslope
QSR – P	Intersection of Quilombola São Roque Community and Plateau
RS	<i>Rio Grande do Sul</i>
S	Slope
SC	<i>Santa Catarina</i>
SGU	Sociogeomorphological Unit
SU	Social Units
UFRGS	<i>Universidade federal do Rio Grande do Sul</i>
Z	Altitude