

Supplementary Materials S1

Table S1. Main Dataset used in this study. The table involve mostly the spatial data obtained during the research. The detailed sources can be found in [84].

External Environment Type	Asset	Available Data	Format type	Source
Human	Population	Number of people per commune	text	Insee, 2015
		Number of people per commune	shape	Adapted from INSEE, (2015) on SIG
		Ethnical distribution per commune ?	n/a	
	Buildings	Construction features	text	Local Urban Plan of Mana municipality (AUDeG, 2018)
				Local Urban Plan of Saint Laurent du Maroni municipality in 2013. Data were confidentially provided.
				Local Urban Plan of Saul municipality (AUDeG, 2016)
		Number of buildings	shape	https://www.data.gouv.fr/fr/datasets/r/7f4559b9-08c8-4f71-97b3-625ae1a8ee11 consulted the 11/04/2019
		Types of buildings and use	shape	
		Strategic infrastructures	shape	Georeferenced from the urban plan basemap of Geoguyane.fr
		Number of buildings per commune	shape	https://www.data.gouv.fr/fr/datasets/r/7f4559b9-08c8-4f71-97b3-625ae1a8ee11 consulted the 11/04/2019

	Roads	Roads	shape	https://www.data.gouv.fr/fr/datasets/r/7f4559b9-08c8-4f71-97b3-625ae1a8ee11
	Urbanized areas	Urbanized surfaces	shape	Local Urban Plan of Mana municipality (AUDeG, 2018)
			shape	Local Urban Plan of Saint Laurent du Maroni municipality in 2013. Data were confidentially provided.
			shape	Local Urban Plan of Saul municipality (AUDeG, 2016)
			shape	Land Use and Land Cover Map, 2015 (ONF, 2017)
		Spontaneous urbanized surfaces	shape	Geoguyane platform and Audeg, (2018)
	Industrial areas	Industrialized surfaces	shape	Local Urban Plan of Mana municipality (AUDeG, 2018)
			shape	Local Urban Plan of Saint Laurent du Maroni municipality in 2013. Data were confidentially provided.
			shape	Local Urban Plan of Saul municipality (AUDeG, 2016)
			shape	Land Use and Land Cover Map, 2015 (ONF, 2017)
	Agricultural areas	Agricultural surfaces	shape	Local Urban Plan of Mana municipality (AUDeG, 2018)
			shape	Local Urban Plan of Saint Laurent du Maroni municipality in 2013. Data were confidentially provided.
			shape	Local Urban Plan of Saul municipality (AUDeG, 2016)

			shape	Land Use and Land Cover Map, 2015 (ONF, 2017)
	Wood production	Forest zoning per utility	text	Adapted from ONF, 2015
			shape	WWF, 2014
	Wastewater treatment points	Wastewater treatment points	shape	Geodata provided by PTMG (WWF - PTMG, 2010)
	Water supply points	Water supply points	shape	WWF, 2013;
	Electrical supply points	Electrical supply points	shape	Morel C., - DAAF/EDF, 2015
	Fishing areas	Professional fishing surfaces	shape	WWF, 2011
		Leisure fishing surfaces	shape	WWF, 2011

	Quarries	Number of quarries and extracted materials	shape	Georeferenced from Nontanovanh & Marteau, 2010 - BRGM
	Illegal mining	Surfaces impacted from illegal mining	shape	Adapted from WWF, 2015
		Communes per impacted surfaces by illegal mining in 2015	shape	
Natural	Soil	Simplified soil map	shape	Adapted and created from Turenne1972a and georeferencing IRD, 1979
		Hydro ecorégions	shape	DEAL, CEMAGREF/IRSTEA, 2005
		Soil per habitat type	text	Guitet et al., 2015 – ONF ; provided confidentially
	Surface water	Global chemical and ecological quality of aquatic and surface ecosystems	text	Bargier et al., 2013 SDAGE, 2014"
		Hydrographic network	shape	DEAL Guyane, SANDRE, AFB (2015) French Guiana hydrographic network map, 1: 100,000. https:// geo. data. gouv. fr/ fr/ datas ets/ be0f0 6d4ff 70793 fba2b b545b 5168e 84c43 c1290
		Hydrographic zoning	shape	SANDRE, 2012
	Underground water	Global chemical and ecological quality of underground water	text	Bargier et al., 2013 SDAGE, 2014"
		Underground water	shape	SANDRE and BRGM, 2019, Masses d'eau souterraines - Guyane - Version État des Lieux 2019 à l'échelle 1 / 100000. https://geo.data.gouv.fr/fr/datasets/71f08230496aa18dd045c519aae65cace8cf676a
	Biodiversity (flora & fauna)	Natural surfaces	shape	Local Urban Plan of Mana municipality (AUDeG, 2018)
			shape	Local Urban Plan of Saint Laurent du Maroni municipality in 2013. Data were confidentially provided.
			shape	Local Urban Plan of Saul municipality (AUDeG, 2016)

		ZNIEFF surfaces	shape	<p>DEAL Guyane (2014a) Biotope Amazonie-Caraibes, ZNIEFF de type 1 en Guyane, 1 : 50,000. https:// geo. data. gouv. fr/ fr/ datas ets/ e64cc 7d16b 1a22e 1f364 34c13 c53e6 6b20b 6326e.</p> <p>DEAL Guyane (2014b) Biotope Amazonie-Caraibes, ZNIEFF de type 2 en Guyane, 1 : 50,000. https:// geo. data. gouv. fr/ fr/ datas ets/ e64cc 7d16b 1a22e 1f364 34c13 c53e6 6b20b 6326e.</p>
		Zones d'interet écologique pour oiseaux, tortues, crevettes etc.	shape	Confidential data
		Zones de reproduction des tortues	shape	
		Ramsar protection surface of Amana (Basse Mana)	shape	
		Portal biosphere reserve surface	shape	
		Biodiversity potential per area (3classes)	text	<p>Guitet S, Euriot S, Brunaux O, Dewynter M, Virevaire M, Gogouillon B, Miramond N, Baraloto C, Denis T, Freycon V, Gonzalez S, de Granville J-J, Jaouen G, Richard-Hansen C, Sabatier D, Tostain O (2015) Catalogue des habitats forestiers de Guyane, Office National des Forêts</p>