

Supplementary information

Average width

ASGM-impact period	Year	Section A1	Section A2	Section A3	Total
Minimal mining	1984	115.7	114.5	164.9	131.7
	1987	147.1	129.8	182.4	153.1
	1992	146.0	125.7	179.0	150.2
	1996	110.1	122.1	163.9	132.0
	2000	157.1	147.8	186.3	163.7
	Median per period	146.0	125.7	179.0	150.2
Moderate mining	2004	116.8	144.0	183.2	148.0
	2008	142.3	191.9	184.7	173.0
	Median per period	129.5	168.0	184.0	160.5
Intensive mining	2012	155.3	182.6	192.2	176.7
	2016	176.6	190.5	187.6	184.9
	2020	158.5	191.5	180.0	176.7
	Median per period	158.5	190.5	187.6	178.9
Total		143.0	155.7	181.1	160.0

Table x. Average width medians per period and sub-periods

Erosion and deposition

ASGM-impact Period	Sub-period	Erosion (ha)			Deposition (ha)		
		A1	A2	A3	A1	A2	A3
Minimal mining	1984-1987	206.4	245.8	217.4	62.4	116.7	95.5
	1987-1992	162.5	245.3	186.3	212.9	264.4	205.3
	1992-1996	99.4	188.6	96.8	171.3	261.8	189.1
	1996-2000	183.3	247.6	260.9	79.2	195.7	64.5
Moderate mining	2000-2004	155.4	222.3	184.8	143.1	365.0	169.2
	2004-2008	114.9	393.8	145.0	106.7	117.3	139.8
Intensive mining	2008-2012	142.1	254.7	255.2	122.7	193.3	140.5
	2012-2016	224.3	294.7	215.9	191.8	365.7	203.2
	2016-2020	180.3	299.0	195.0	240.0	438.8	275.1

Table x. Erosion and deposition areas (ha) per sub-periods and river section.



Migration

ASGM-impact period	Sub-periods	A2	A3	Total
Minimal mining	1984-1987	11.01	13.15	12.77
	1987-1992	10.39	7.00	8.29
	1992-1996	8.27	5.48	6.41
	1996-2000	6.94	4.73	5.33
	Median per period	8.56	5.96	7.26
Moderate mining	2000-2004	12.32	6.05	7.14
	2004-2008	9.86	4.86	5.82
	Median per period	11.09	5.45	8.27
Intensive mining	2008-2012	9.93	5.55	6.53
	2012-2016	13.08	7.97	9.10

	2016-2020	15.65	9.05	10.48
	Median per period	11.15	6.67	8.91
Total		9.20	5.92	8.27

Table x. Migration rates medians per period and sub-periods

Satellite images catalog

Year	ID	Satellite	Factor	Row	Date of acquisition
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1984	LT05_002069_19840901	Landsat 5	0.002	069	9/1/1984
1984	LT05_003069_19840620	Landsat 5	0.003	069	6/20/1984
1984	LT05_003069_19840706	Landsat 5	0.003	069	7/6/1984
1984	LT05_003069_19840722	Landsat 5	0.003	069	7/22/1984
1984	LT05_003069_19840807	Landsat 5	0.003	069	8/7/1984
1984	LT05_003069_19841010	Landsat 5	0.003	069	10/10/1984
1987	LT05_002069_19870302	Landsat 5	0.002	069	3/2/1987
1987	LT05_002069_19870318	Landsat 5	0.002	069	3/18/1987
1987	LT05_002069_19870521	Landsat 5	0.002	069	5/21/1987
1987	LT05_002069_19870622	Landsat 5	0.002	069	6/22/1987

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9 8 7	LT05_002069_198 70825	Lan dsat 5	0 0 2	069	8/25/1987
9 8 7	LT05_002069_198 70926	Lan dsat 5	0 0 2	069	9/26/1987
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2008	LE07_003069_200 80817	Lan dsat 7	003 003	069	8/17/2008

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2011	LE07_002069_20120501	Landsat 7	002069	5/1/2012
2011	LE07_002069_20120602	Landsat 7	002069	6/2/2012
2011	LE07_002069_20120618	Landsat 7	002069	6/18/2012
2011	LE07_002069_20120720	Landsat 7	002069	7/20/2012
2011	LE07_002069_20120805	Landsat 7	002069	8/5/2012
2011	LE07_002069_20120821	Landsat 7	002069	8/21/2012
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2 0 1 7	LC08_002069_201 70507	Lan dsat 8	0 0 2	069	5/7/2017

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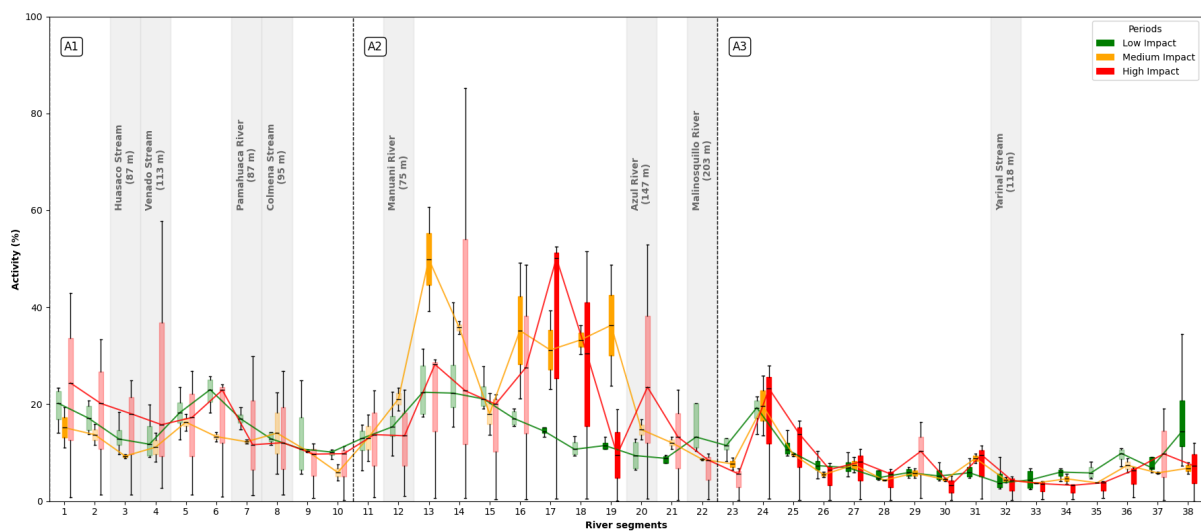
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					8/26/2020
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					9/11/2020
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0	0	00927	dsat	0	
			8	3	069
					9/27/2020
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			8	3	069
					10/13/2020
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			8	3	069
					10/29/2020

Activity



La actividad en el periodo de alto impacto es significativamente distinta y mas baja que en el subperiodo de bajo impacto, mientras que el subperiodo de impacto medio no difiere estadísticamente de ninguno de los otros dos periodos de impacto.

Prueba de Kruskal-Wallis:

Estadístico: 8.914, p-valor: 0.012

Resultado: Existen diferencias significativas entre los niveles de impacto en cuanto a la actividad.

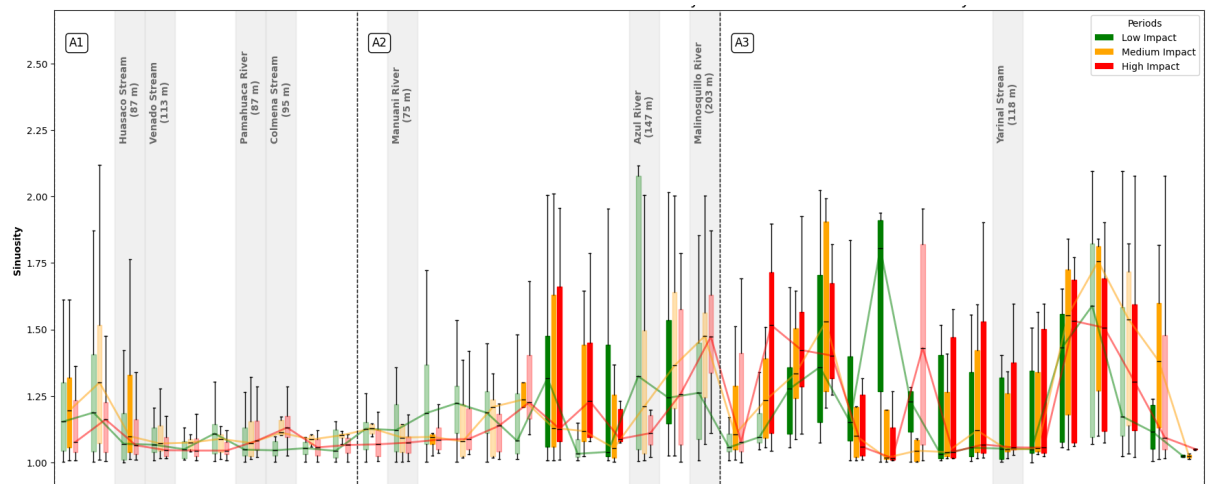
Prueba de Mann-Kendall para tendencia

Tendencia: Decreciente

Estadístico Tau: -0.085, p-valor: 0.020

Resultado: La tendencia es estadísticamente significativa en función del nivel de impacto.

Sinuosity



Prueba de Kruskal-Wallis para Sinuosity:

Estadístico: 1.634, p-valor: 0.442

Resultado: No se encontraron diferencias significativas entre los niveles de impacto para Sinuosity.

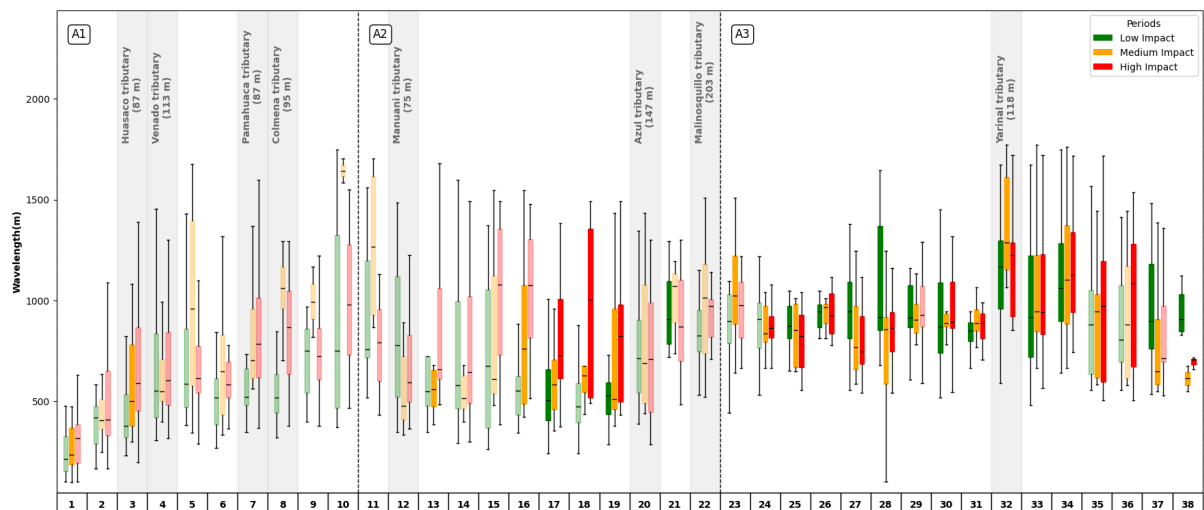
Prueba de Mann-Kendall para Sinuosity:

Tendencia: No significativa

Estadístico Tau: 0.015, p-valor: 0.320

Resultado: La tendencia en Sinuosity no es estadísticamente significativa.

Wavelength:



Prueba de Kruskal-Wallis para Wavelength:

Estadístico: 32.525, p-valor: 0.000

Resultado: Existen diferencias significativas entre los niveles de impacto para Wavelength

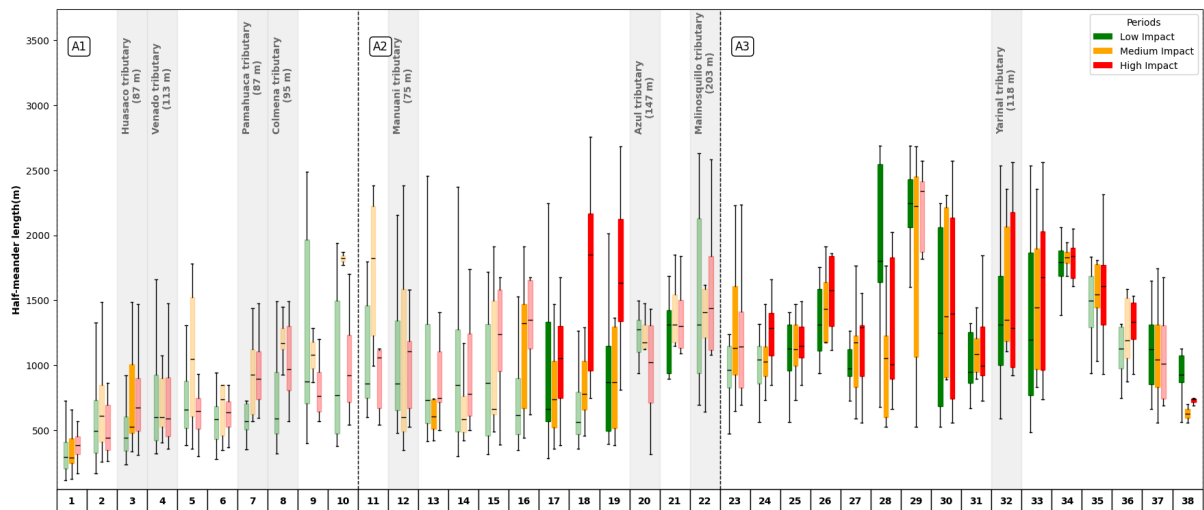
Prueba de Mann-Kendall para Wavelength:

Tendencia: Creciente

Estadístico Tau: 0.063, p-valor: 0.000

Resultado: La tendencia en Wavelength es estadísticamente significativa.

Half-meander length



Prueba de Mann-Kendall para Half-meander length:

Tendencia: Creciente

Estadístico Tau: 0.063, p-valor: 0.000

Resultado: La tendencia en Semimeander length es estadísticamente significativa

Prueba de Kruskal-Wallis para Half-meander length:

Estadístico: 22.482, p-valor: 0.000

Resultado: Existen diferencias significativas entre los niveles de impacto para Semimeander length.