

Relationship between extreme precipitation events and vegetation cover in the Amazon basin

Kentrosaurus_foxtrot_Rinforzando



ClimateMatch
Academy —

We are:

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Campos Sánchez, Kevin
Cardona Barrero, Salvador
Diez, Francisco
Peña, Manuel
Romero Arrieta, Sebastián
Sanchez, Juan Manuel

[Speaker
Zoom
video]

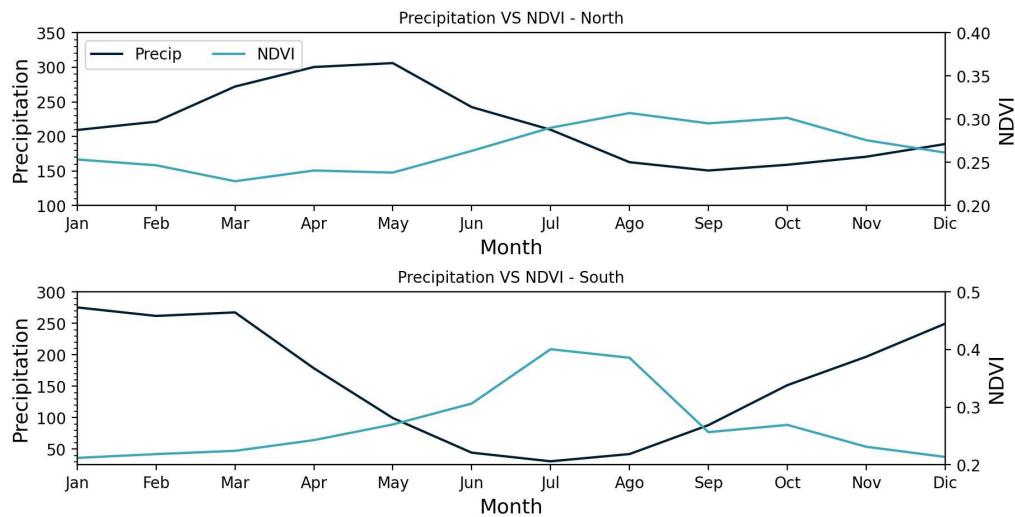
Introduction

Sánchez, Juan Manuel



Introduction

[Speaker
Zoom
video]

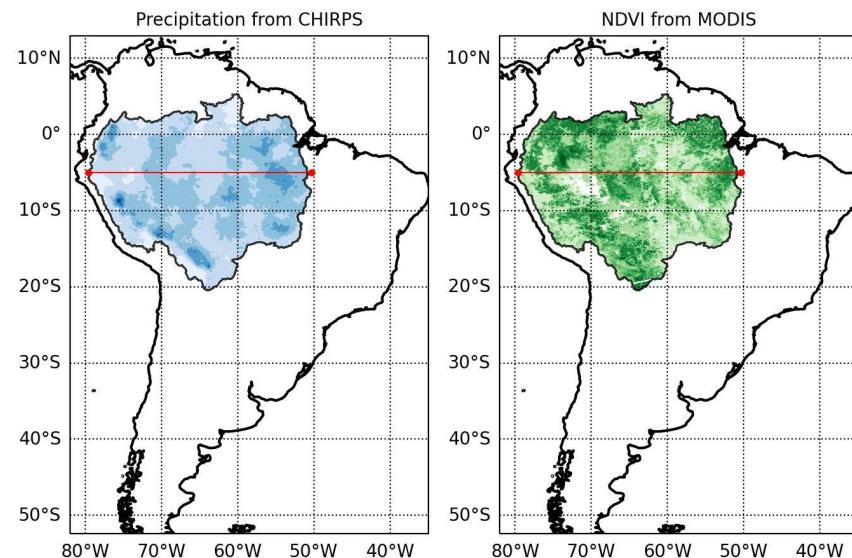


North: FMAM - PPT \uparrow NDVI \downarrow

JASO - PPT \downarrow NDVI \uparrow

South: DJFM - PPT \uparrow NDVI \downarrow

JASO - PPT \downarrow NDVI \uparrow



[Speaker
Zoom
video]

Correlations

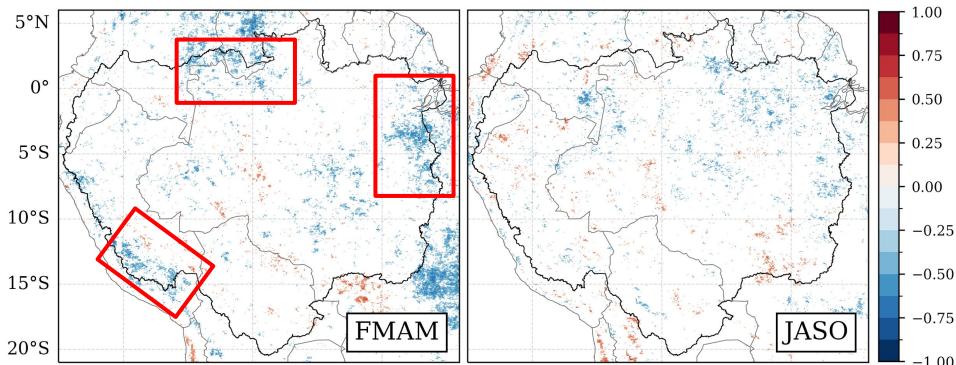
Diez, Francisco



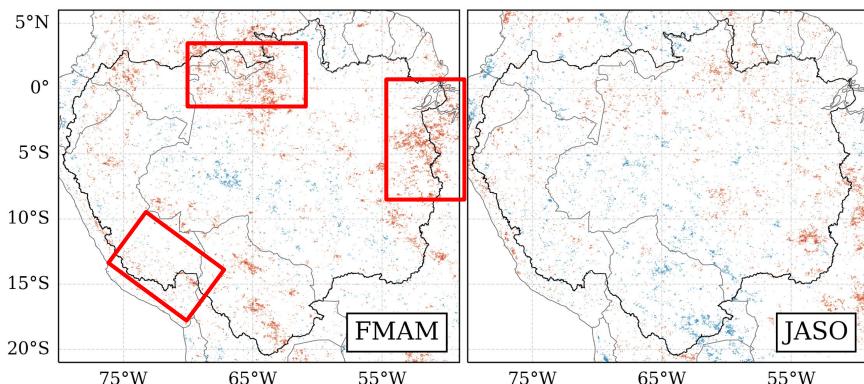
Relationship between precipitation and vegetation cover

[Speaker
Zoom
video]

PP vs NDVI [SPEARMAN] - AMAZON BASIN

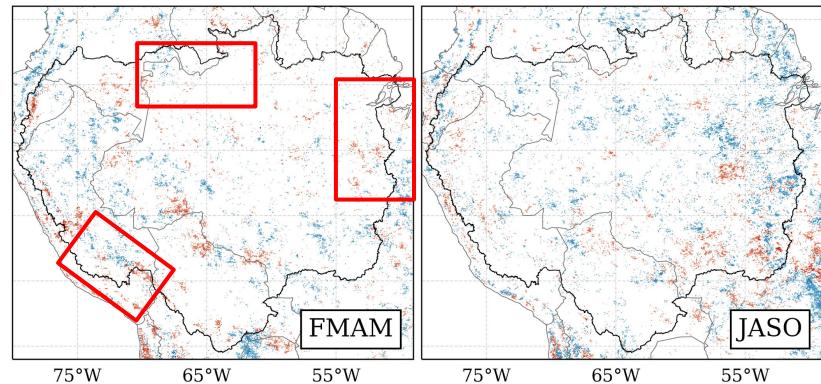


CDD vs NDVI [SPEARMAN] - AMAZON BASIN



Anticorrelation Between
the vegetal cover the
amount of precipitation!

SDII vs NDVI [SPEARMAN] - AMAZON BASIN



[*] Only significant correlation at the 95% confidence level are plotted



[Speaker
Zoom
video]

Correlations lag-1

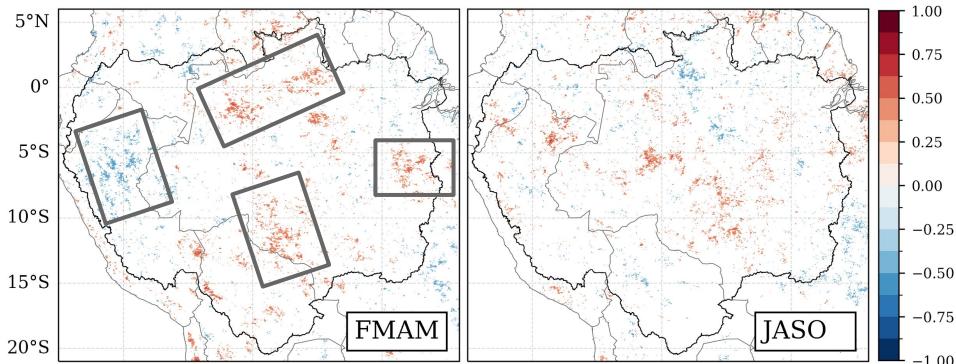
Cardona Barrero, Salvador



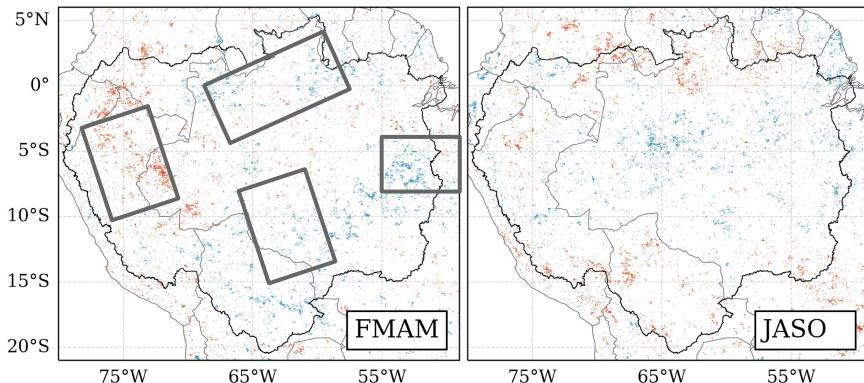
Relationship between precipitation and vegetation cover

[Speaker
Zoom
video]

PP vs NDVI [SPEARMAN - LAG-1] - AMAZON BASIN

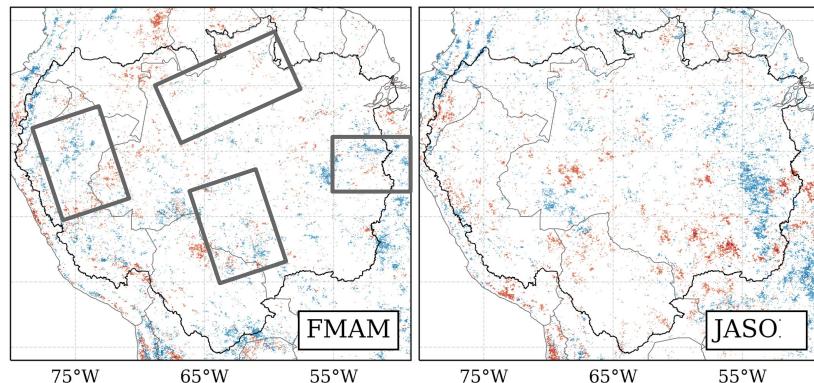


CDD vs NDVI [SPEARMAN - LAG-1] - AMAZON BASIN



The vegetal cover correlates with the precipitation of the previous season!

SDII vs NDVI [SPEARMAN - LAG-1] - AMAZON BASIN



[*] Only significant correlation at the 95% confidence level are plotted



[Speaker
Zoom
video]

Conclusions

Peña, Manuel



Conclusions

- Stational drought-related response.
- Future changes on PP patterns could modify Vegetation Cover.
- Keep Researching!



C. Imágenes impactantes de la sequía del río Amazonas, ... [Photograph].



[Speaker
Zoom
video]

Questions?

Botetano, Gianella
Campos, Kevin

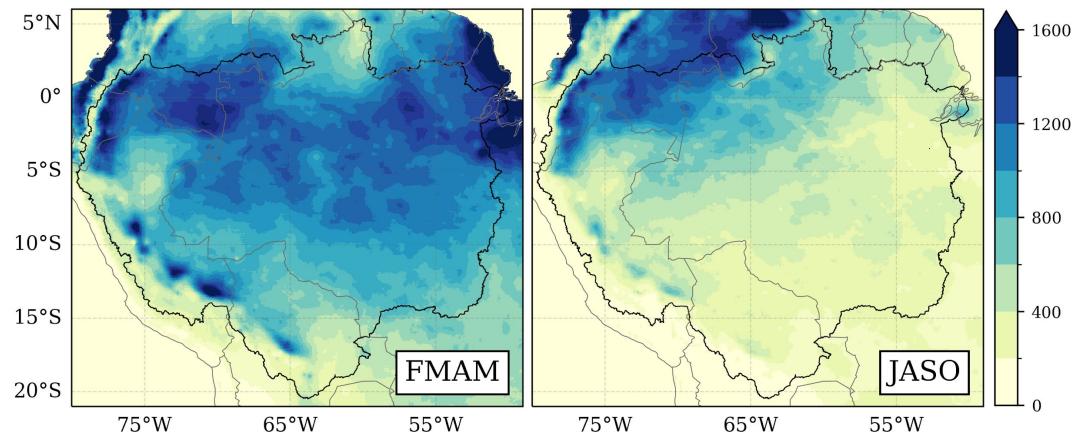


[Speaker
Zoom
video]

Supplementary Material



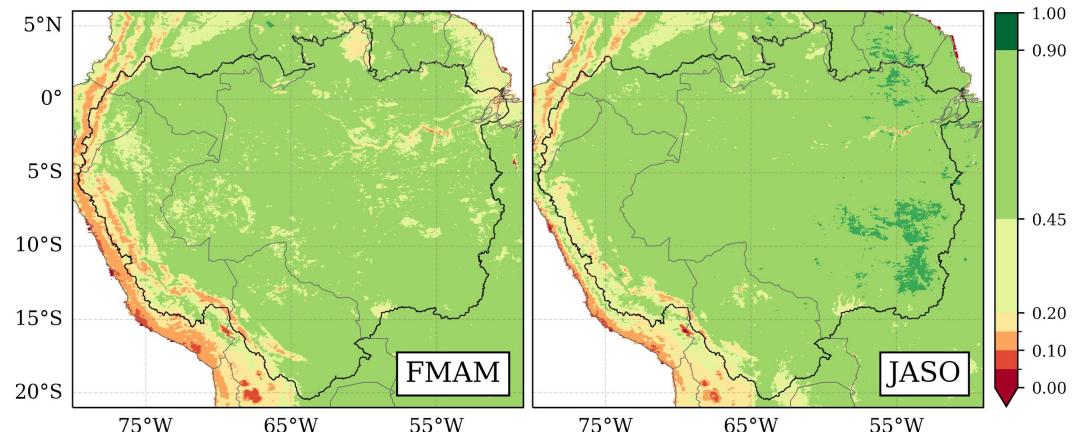
PP climatology [1982-2010]



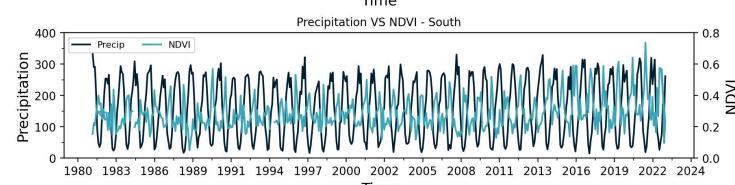
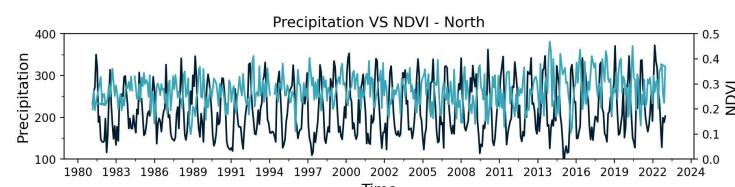
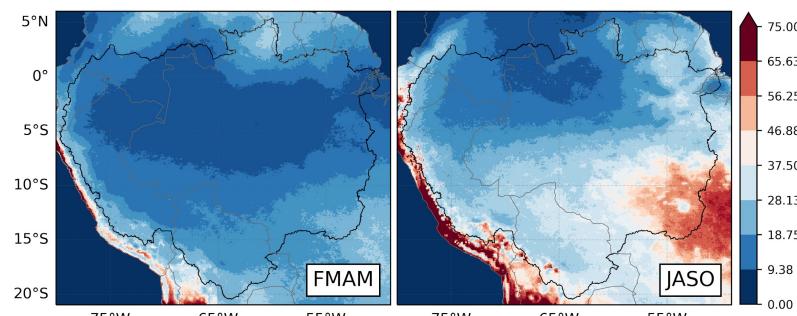
Climatologies

[Speaker
Zoom
video]

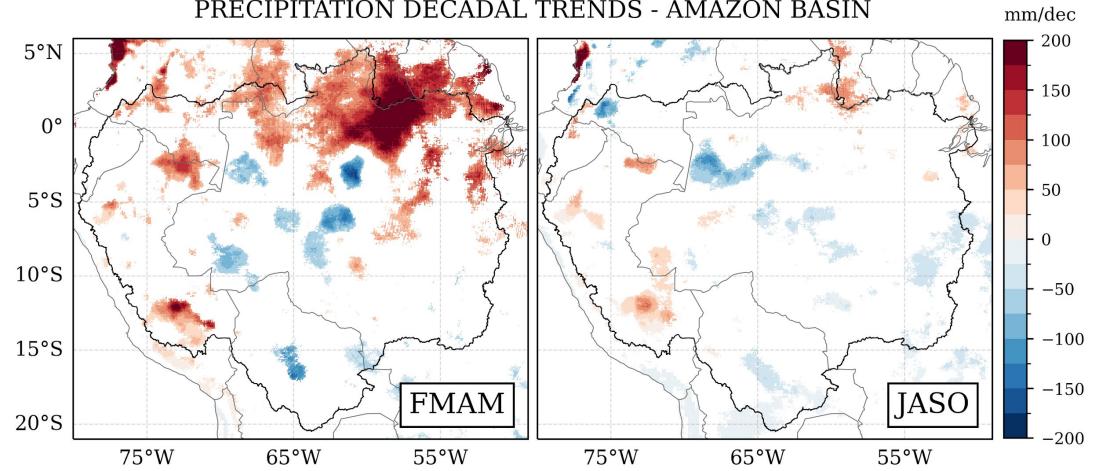
NDVI climatology [1982-2010]



CDD - AMAZON BASIN



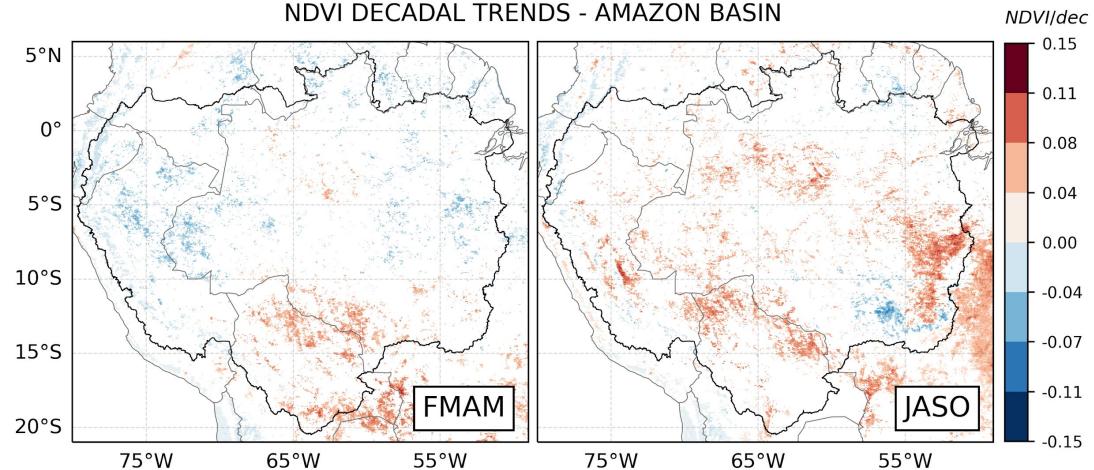
PRECIPITATION DECADAL TRENDS - AMAZON BASIN



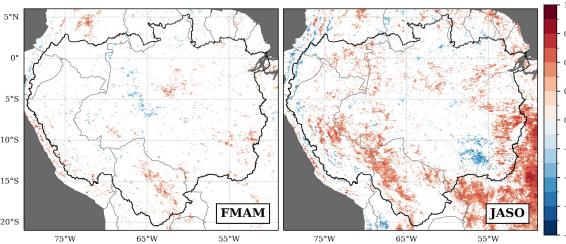
Trends

[Speaker
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video]

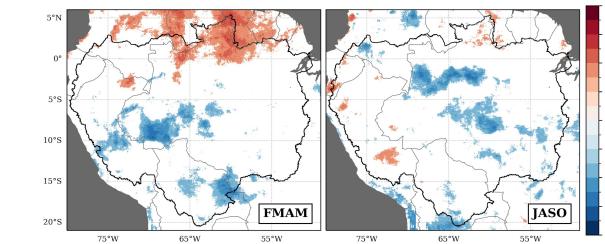
NDVI DECADAL TRENDS - AMAZON BASIN



NDVI vs TNA [SPEARMAN] - AMAZON BASIN

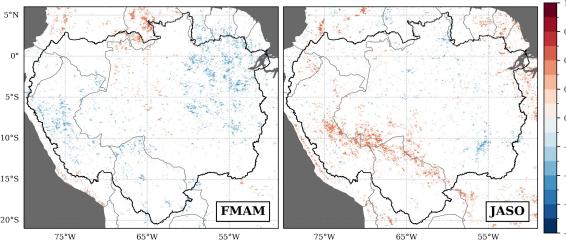


PP vs TNA [SPEARMAN] - AMAZON BASIN

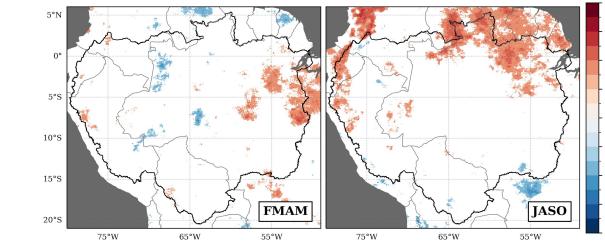


[Speaker
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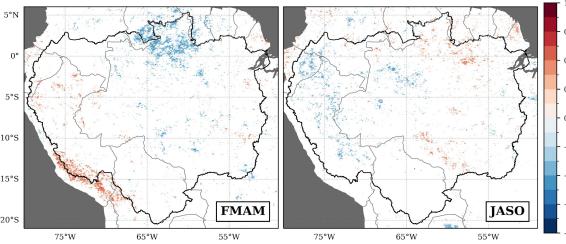
NDVI vs TSA [SPEARMAN] - AMAZON BASIN



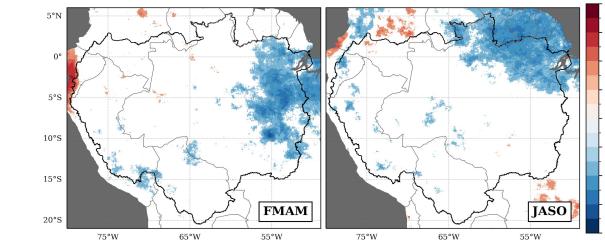
PP vs TSA [SPEARMAN] - AMAZON BASIN



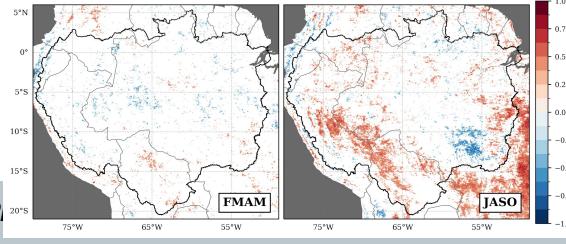
NDVI vs ICEN [SPEARMAN] - AMAZON BASIN



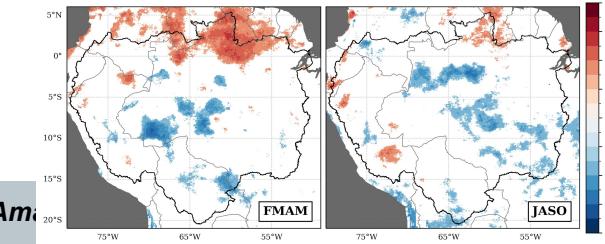
PP vs ICEN [SPEARMAN] - AMAZON BASIN



NDVI vs AMO [SPEARMAN] - AMAZON BASIN



PP vs AMO [SPEARMAN] - AMAZON BASIN



Relationship with variabilities modes