

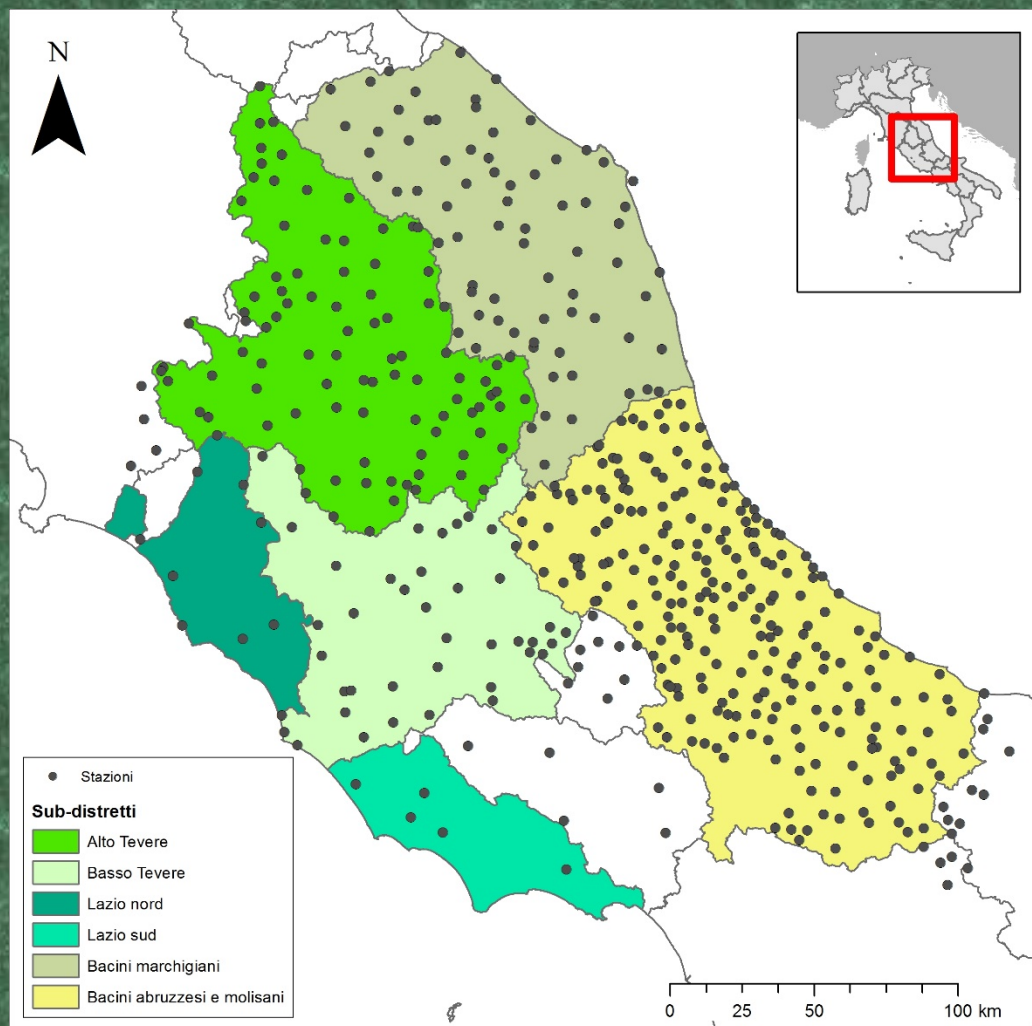


QUADRO D'INSIEME DELLE CONDIZIONI CLIMATICHE E IDROLOGICHE NEI BACINI AFFERENTI AL DISTRETTO DELL'APPENNINO CENTRALE (AGGIORNAMENTO AGOSTO 2018)

IRSA-CNR

E. Romano, N. Guyennon, A.B. Petrangeli
romano@irsa.cnr.it

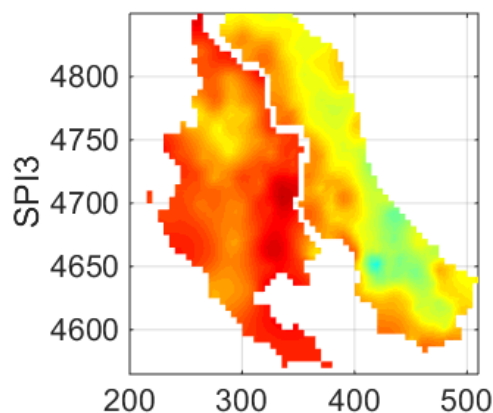
PROSPETTO DEI DATI UTILIZZATI PER L'ANALISI PLUVIOMETRICA



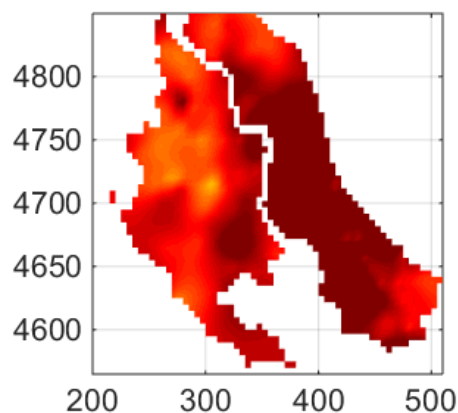
- Periodo di riferimento: gen 1951- ago 2018
- Dati analizzati: precipitazioni mensili
- Area di analisi: Intero distretto
- Metodologia utilizzata per la spazializzazione: kriging

PRECIPITAZIONI AUTUNNALI – SPI3 DICEMBRE

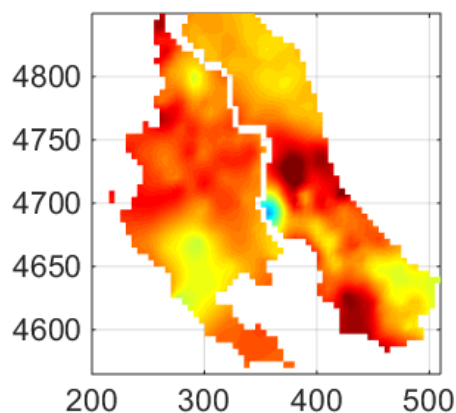
Dec01



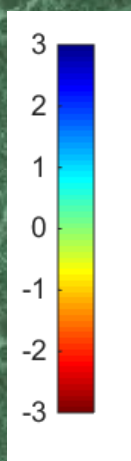
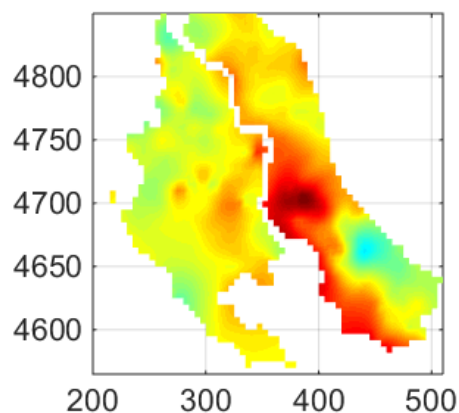
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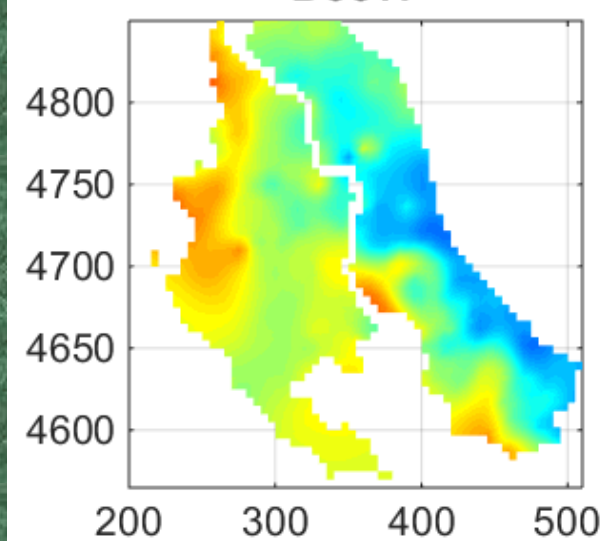
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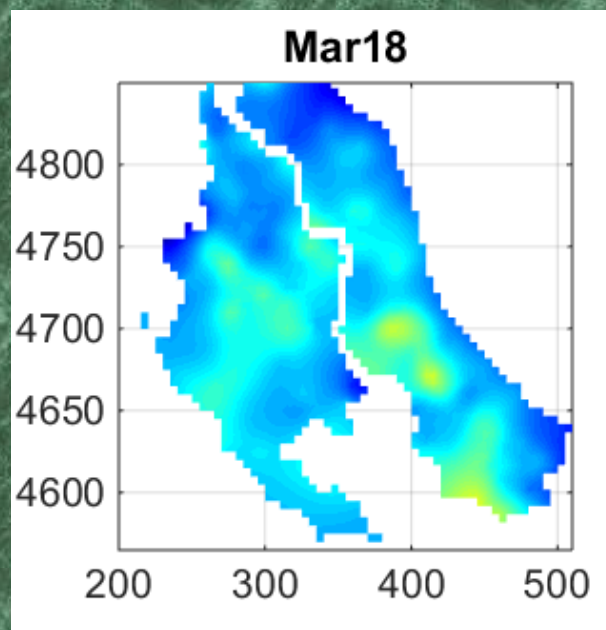
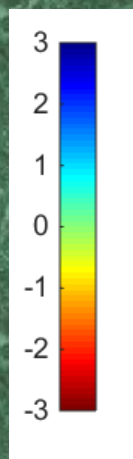
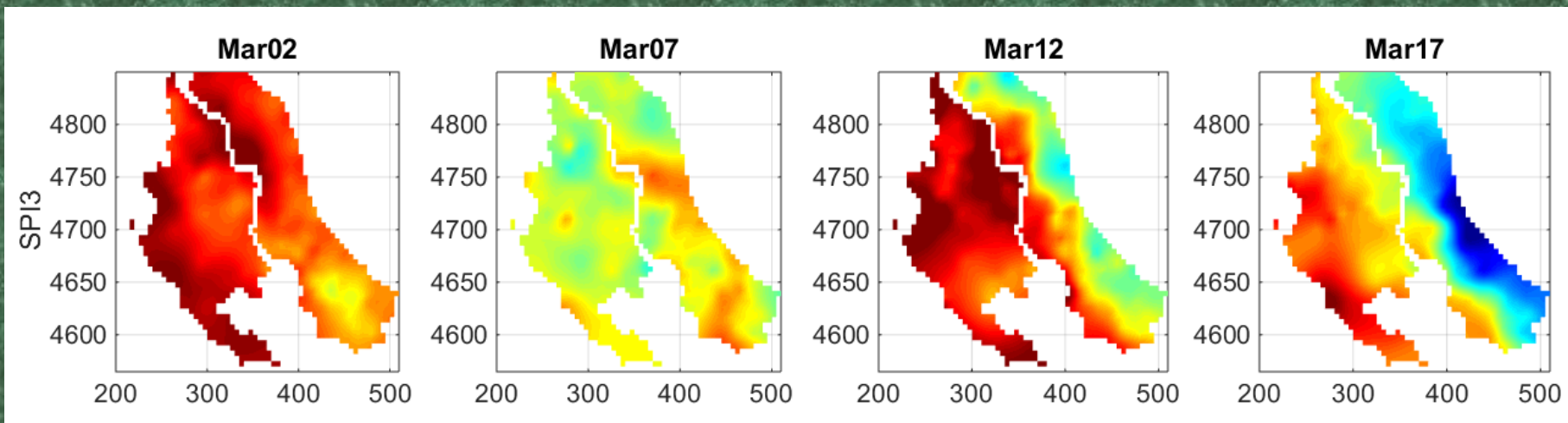
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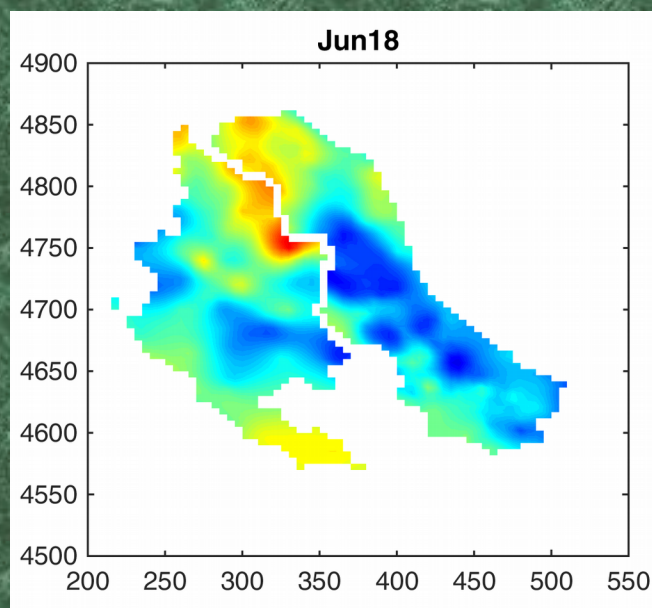
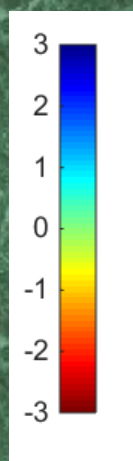
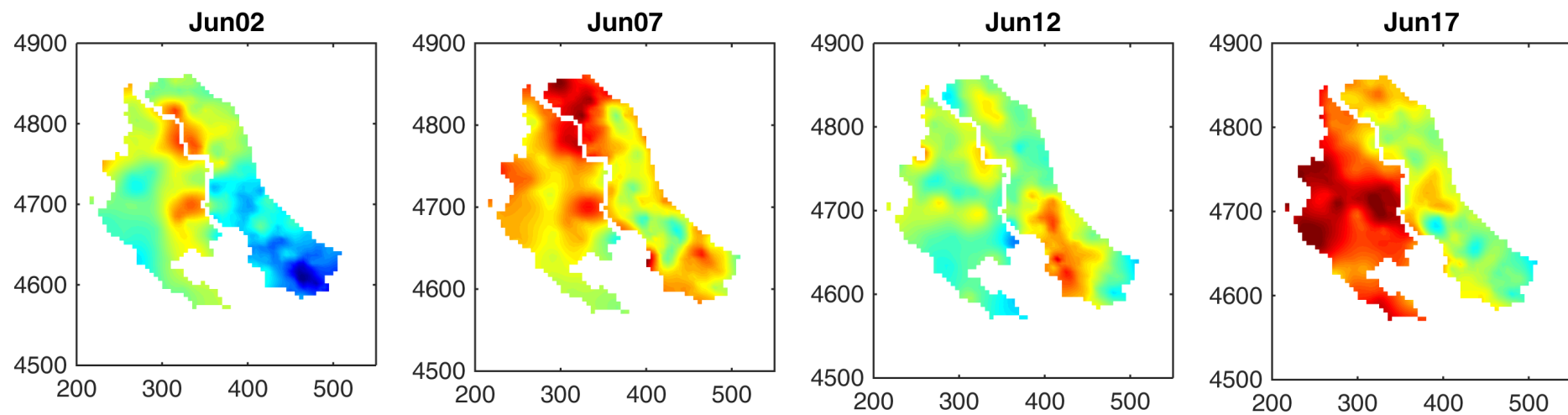
Dec17



PRECIPITAZIONI INVERNALI – SPI3 MARZO

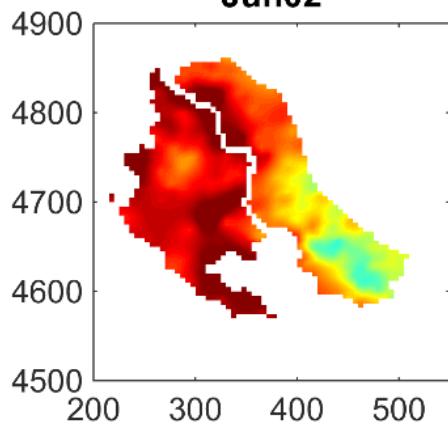


PRECIPITAZIONI PRIMAVERILI – SPI3 GIUGNO

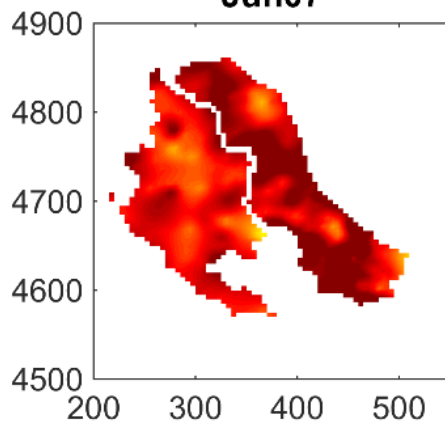


PRECIPITAZIONI AUT-INV-PRI – SPI9 GIUGNO

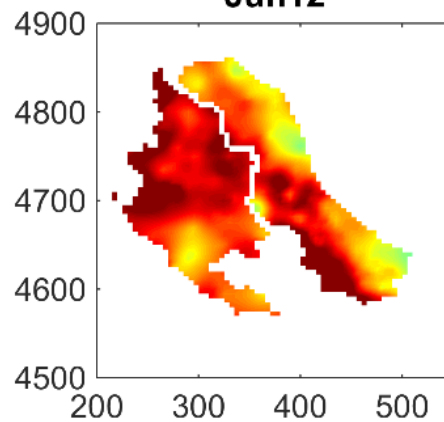
Jun02



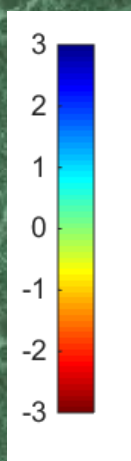
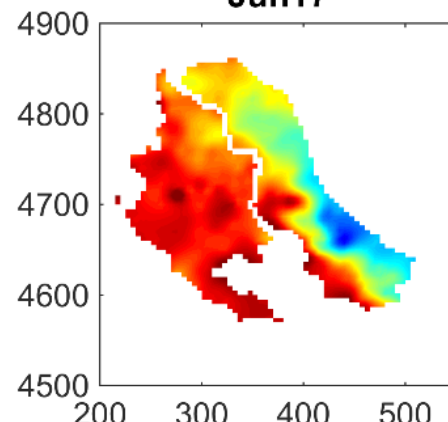
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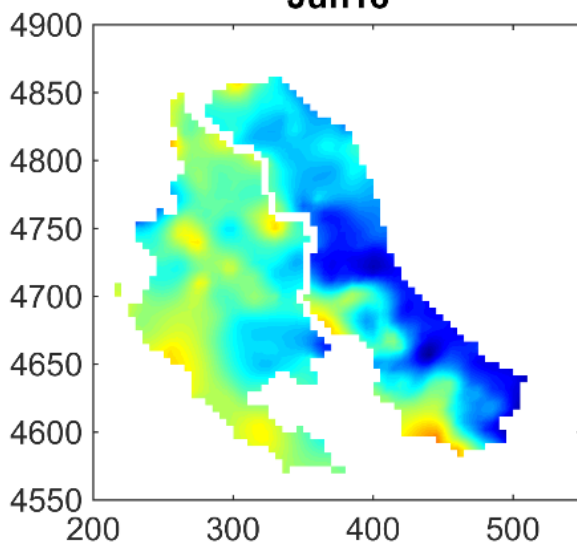
Jun12



Jun17



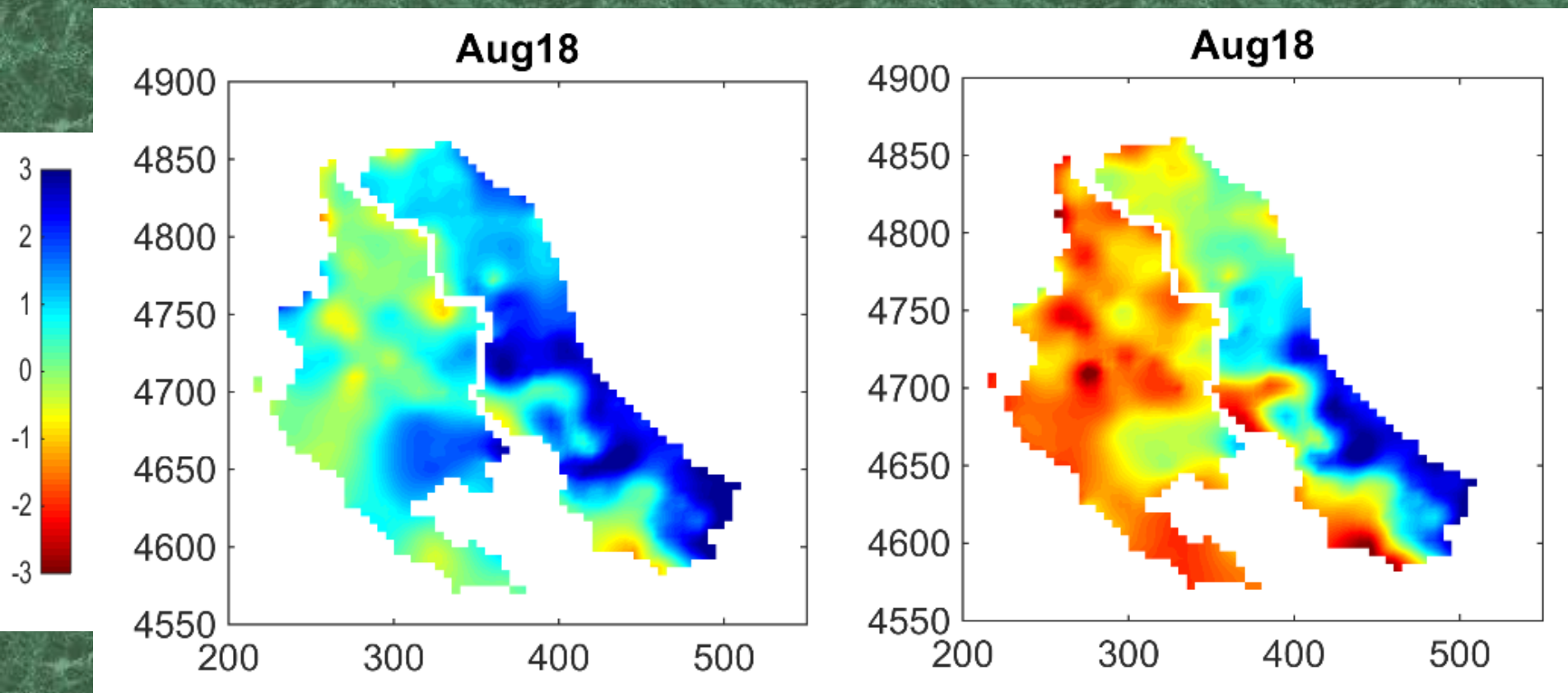
Jun18



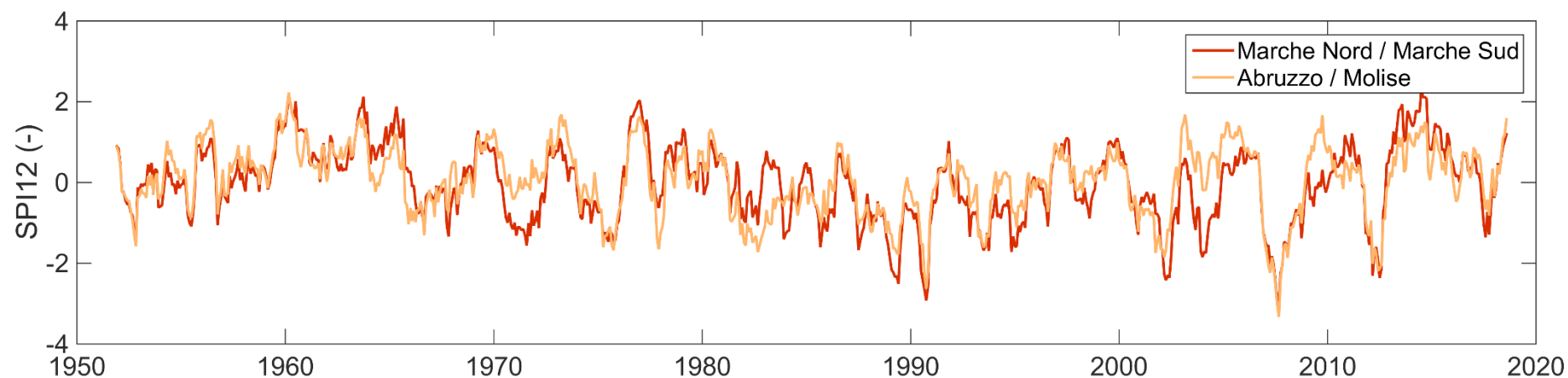
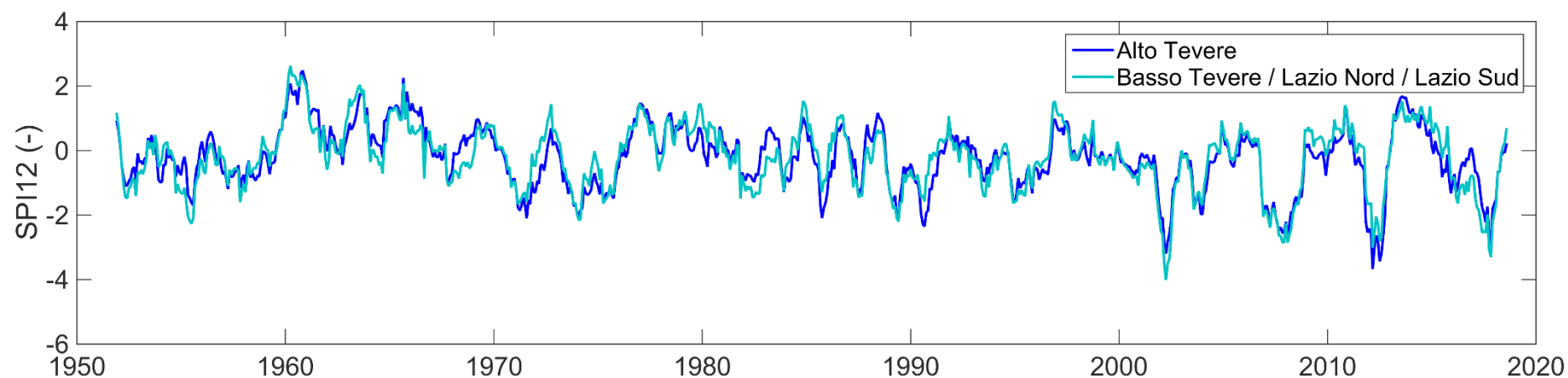
PRECIPITAZIONI ANNUALI – BIANNUALI

SPI12

SPI24



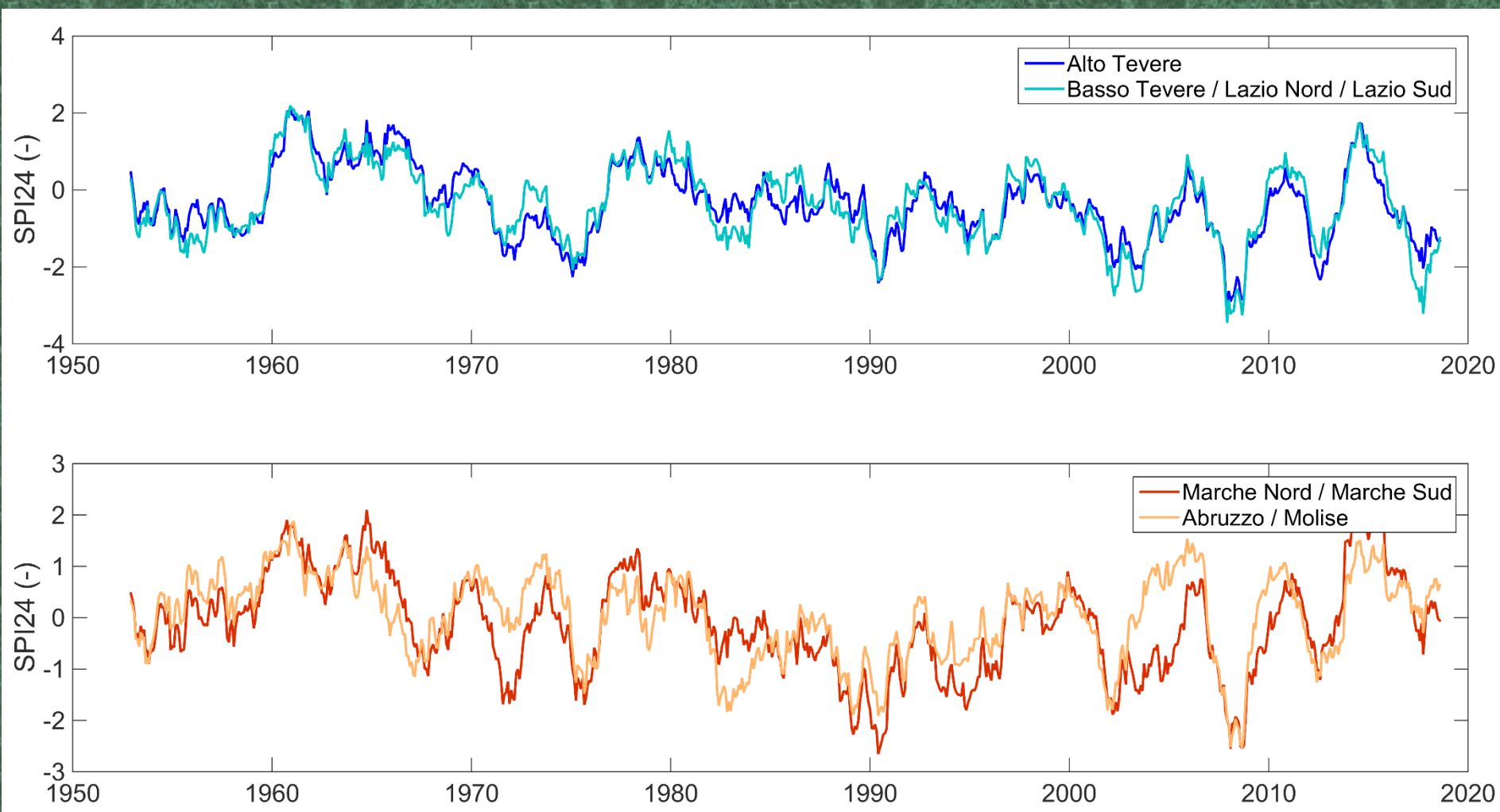
STANDARDIZED PRECIPITATION INDEX 12



SPI 12 Ago-2018 – Alto Tevere : +0.18 – Basso Tevere/Lazio Nord/Lazio Sud : +0.65

SPI 12 Ago-2018 – Marche Nord/Sud : +1.19 – Abruzzo/Molise: +1.56

STANDARDIZED PRECIPITATION INDEX 24

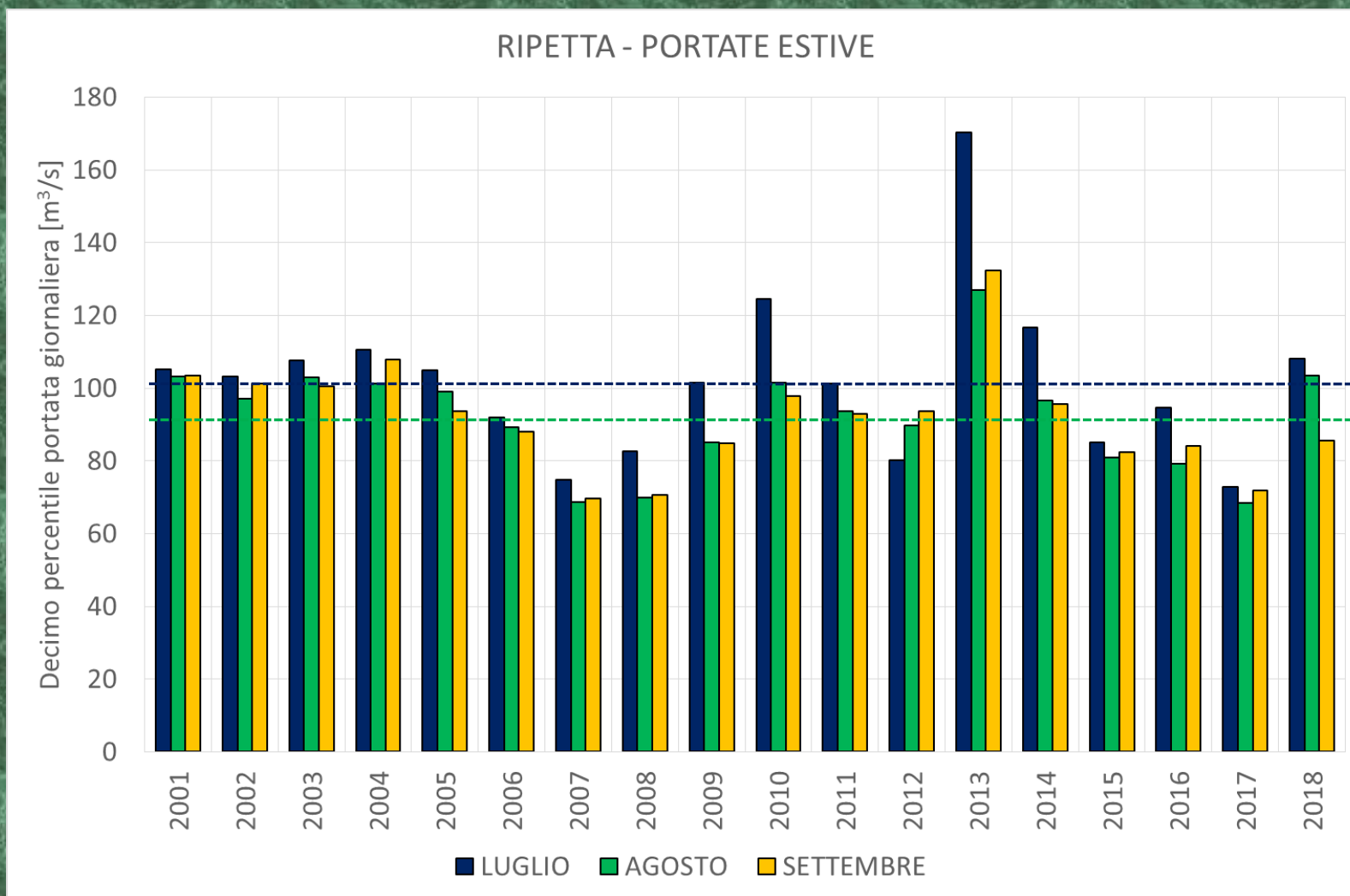


SPI 24 Ago-2018 – Alto Tevere : -1.31 – Basso Tevere/Lazio Nord/Lazio Sud : -1.25

SPI 24 Ago-2018 – Marche Nord/Sud : -0.05 – Abruzzo/Molise: + 0.63

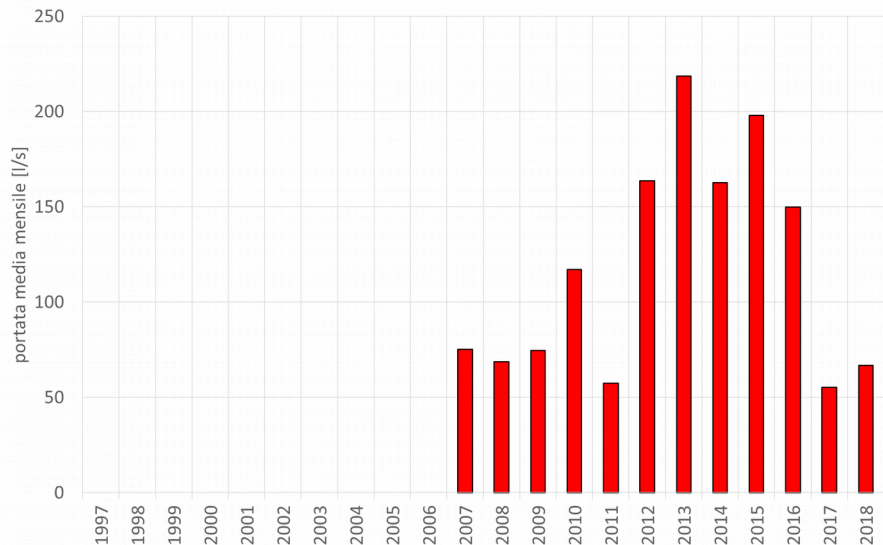
ANALISI SITUAZIONE IDROLOGICA - RIPETTA

- Periodo di riferimento: 2001-2018
- Dati analizzati: portata idrometro Ripetta
- Metodologia di analisi: Q_{10} (luglio/agosto/settembre).

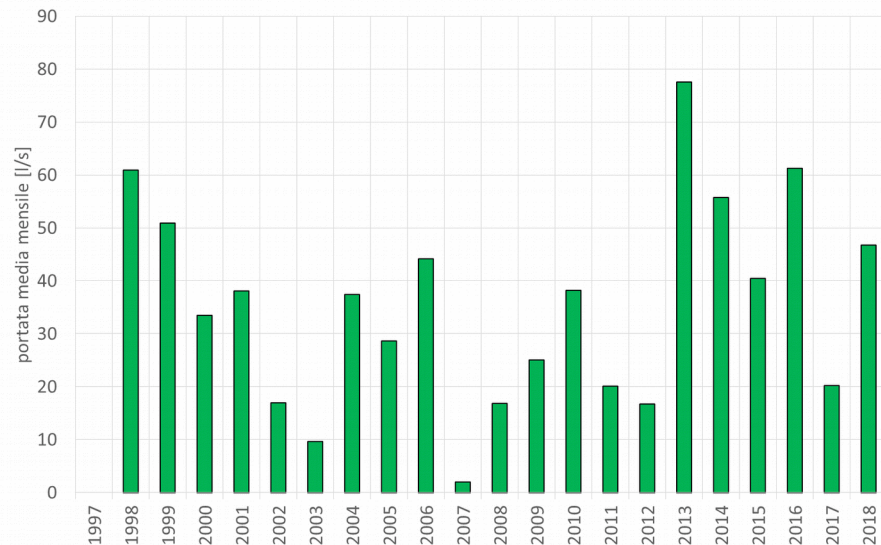


ANALISI SORGENTI UMBRE—portata media ottobre

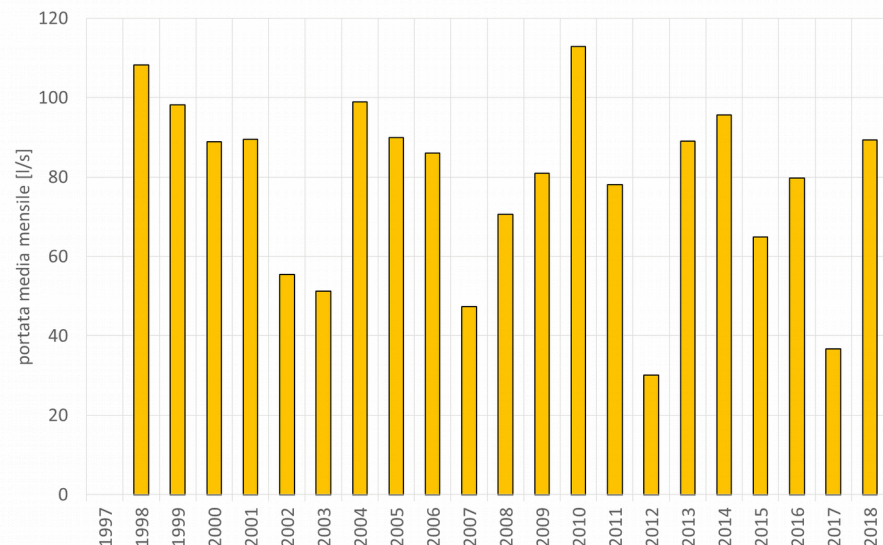
SCIRCA - OTTOBRE



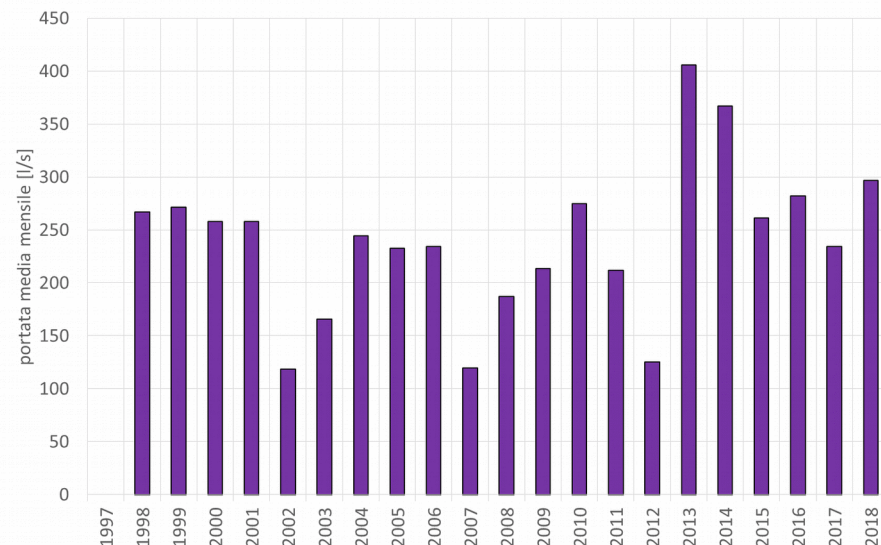
BAGNARA - OTTOBRE



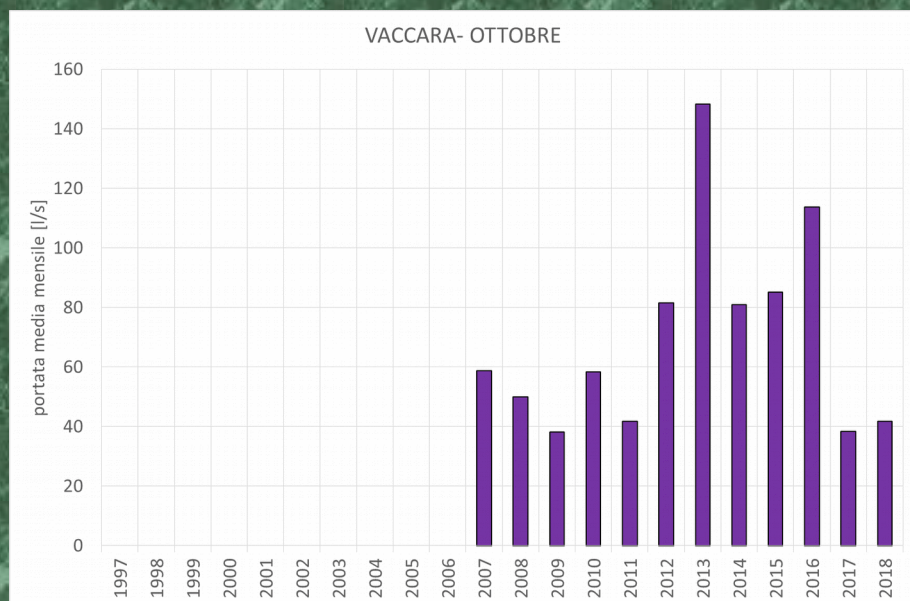
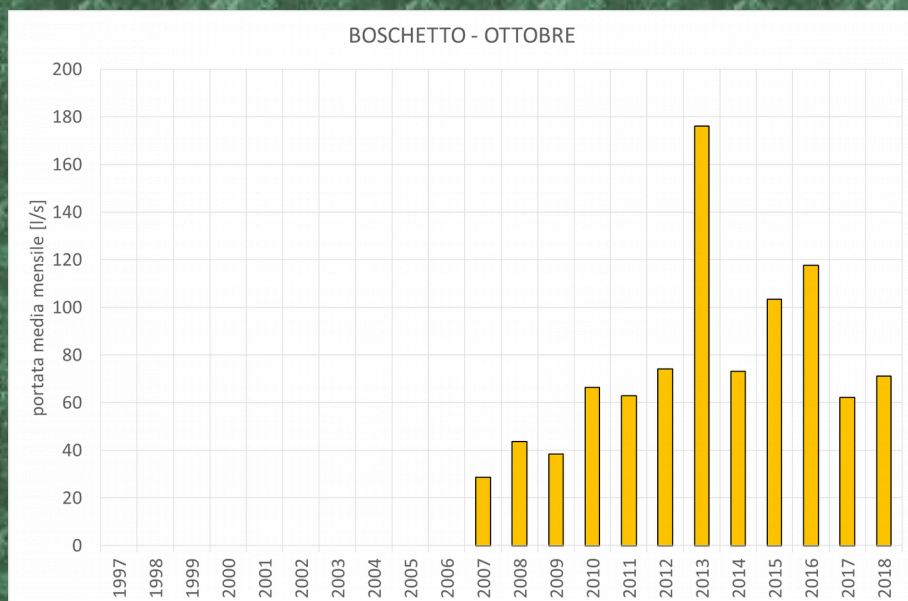
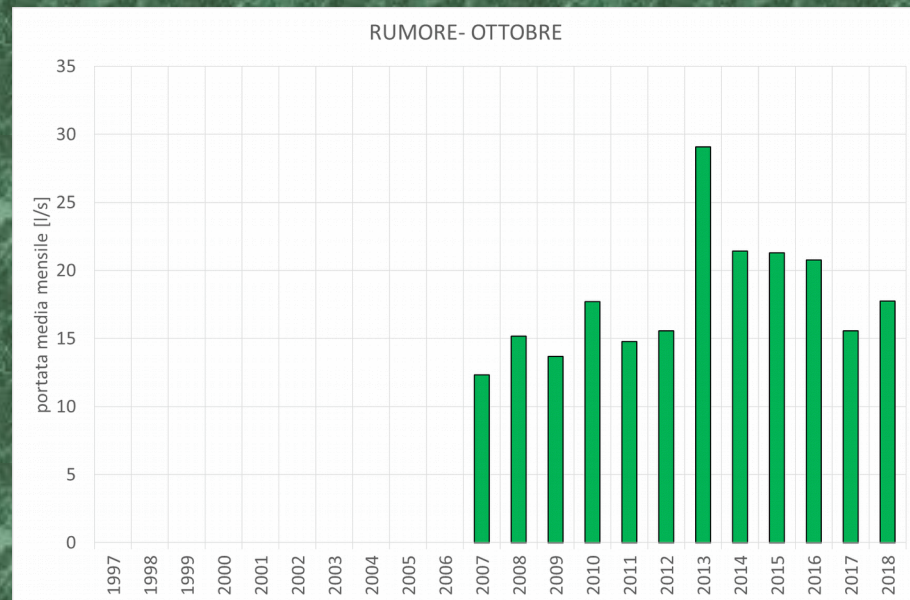
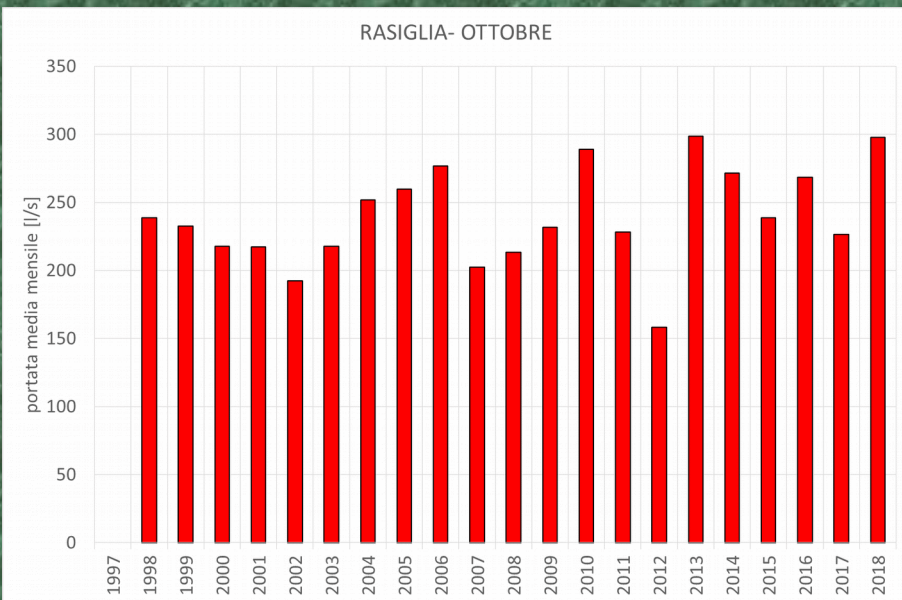
LUPA - OTTOBRE



SAN GIOVENALE - OTTOBRE

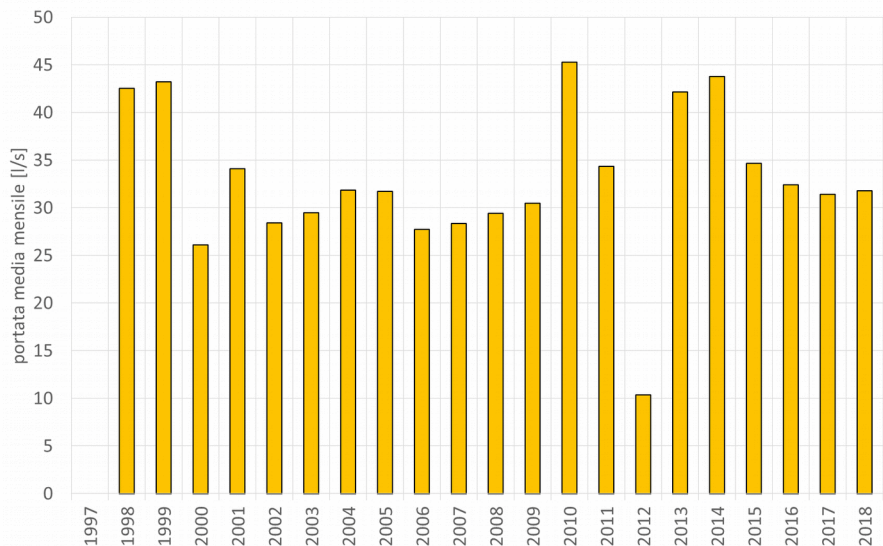


ANALISI SORGENTI UMBRE—portata media ottobre

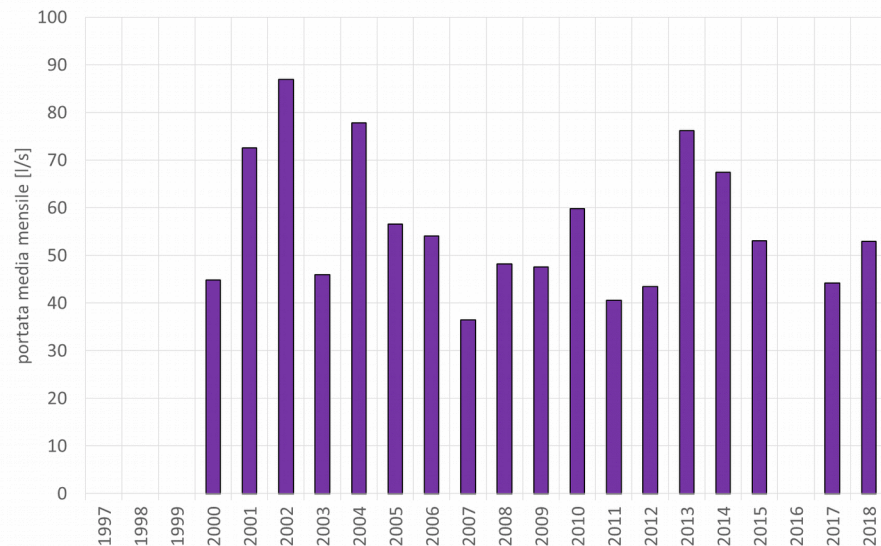


ANALISI SORGENTI UMBRE—portata media ottobre

ACQUABIANCA - OTTOBRE



CAPODACQUA DI NOCERA UMBRA - OTTOBRE



	SCIRCA	BAGNARA	LUPA	SAN GIOVENALE	RASIGLIA ALZABOVE	RUMORE	BOSCHETTO	VACCARA	ACQUABIANCA	CAPODACQUA DI NOCERA U.
Δ 17-18 SPI12 2017= -2.6 SPI12 2018= +0.18	+ 21%	+ 132%	+ 143%	+ 26%	+ 31%	+ 14%	+ 14%	+ 9%	+ 1%	+ 20%
Δ 12-13 SPI12 2012= -3.2 SPI12 2018= +1.7	+ 34%	+ 362%	+ 195%	+ 224%	+ 89%	+ 87%	+ 137%	+ 82%	+ 307%	+ 75%

CONCLUSIONI

- Alla scala annuale (SPI12-agosto) le precipitazioni risultano sopra la media sul versante tirrenico e significativamente sopra la media sul versante adriatico
- Alla scala bi-annuale (SPI24-agosto), relativamente al versante tirrenico, le precipitazioni dell'anno idrologico 2017-2018 (SPI9-giugno) non hanno allo stato attuale consentito di recuperare il deficit pluviometrico cumulato negli ultimi due anni (SPI24 ~ -1.3). Sul versante adriatico, recupero completo del deficit pluviometrico cumulato sull'anno idrologico 2016-2017
- Dal punto di vista idrologico, le portate misurate sul Tevere a Ripetta indicano per il 2018 condizioni di magra (Q_{10} luglio/agosto/settembre) prossime o superiori alla media del periodo 2001-2018
- Le sorgenti umbre presentano nel complesso un incremento delle portate minime rispetto al 2017. Tale incremento appare significativo ($> 20\%$) in più della metà delle sorgenti.