



*Gestione dei deflussi in uno scenario di
trasformazione del territorio e
cambiamento climatico*

Antonia Longobardi

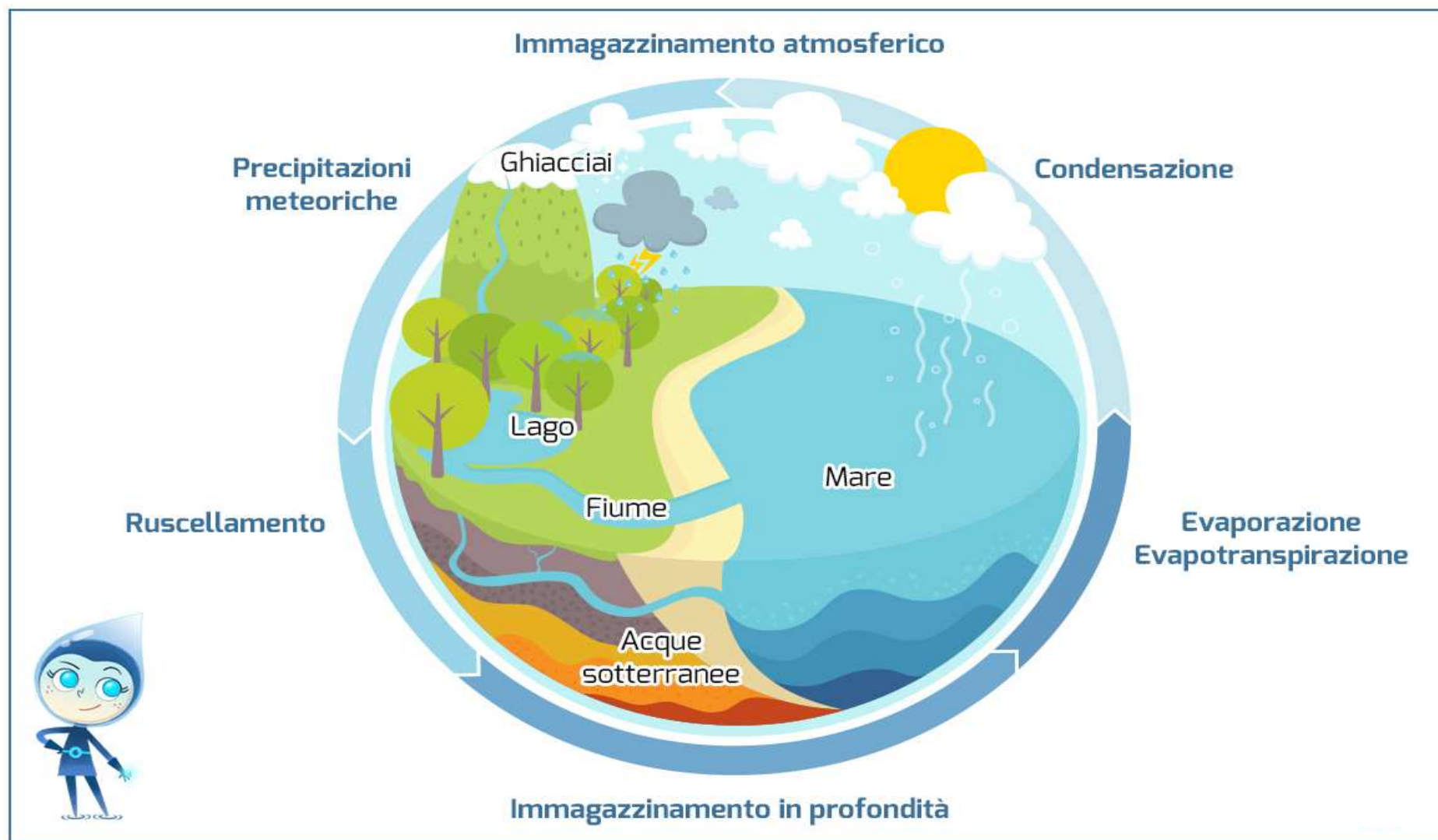


1) Department of Civil Engineering, University of Salerno, Fisciano (SA), Italy.

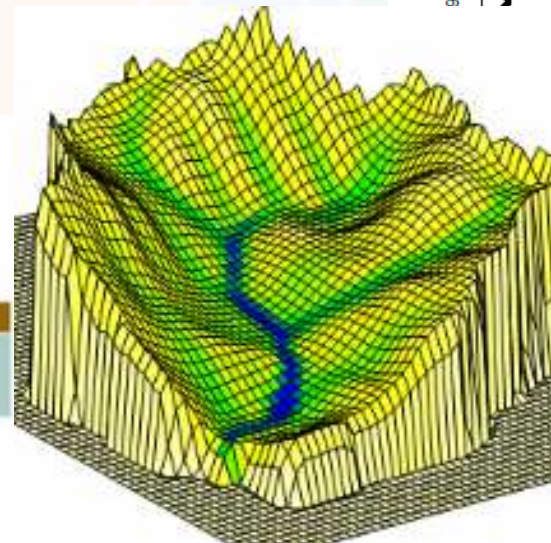
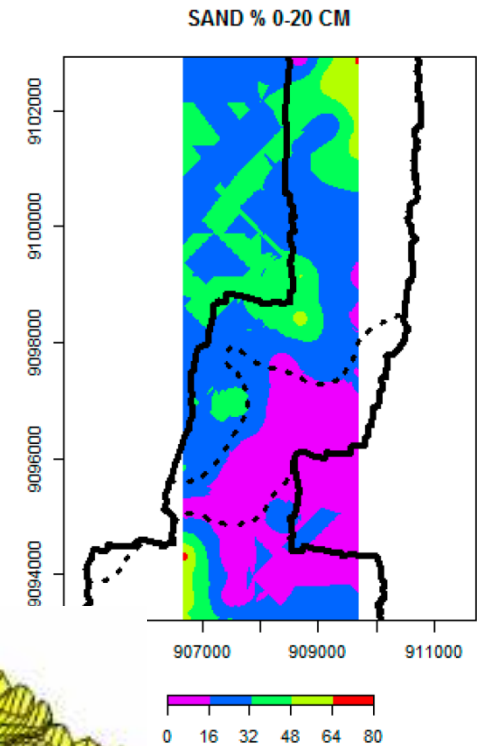
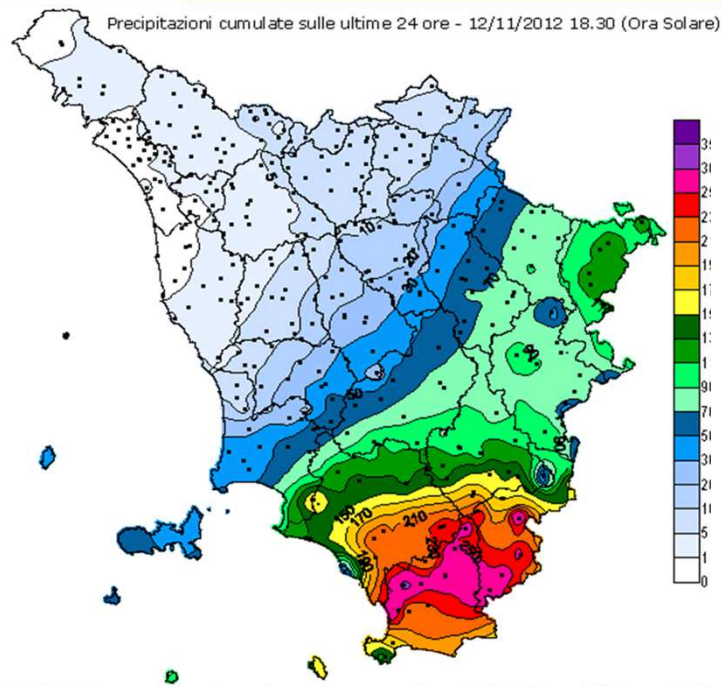
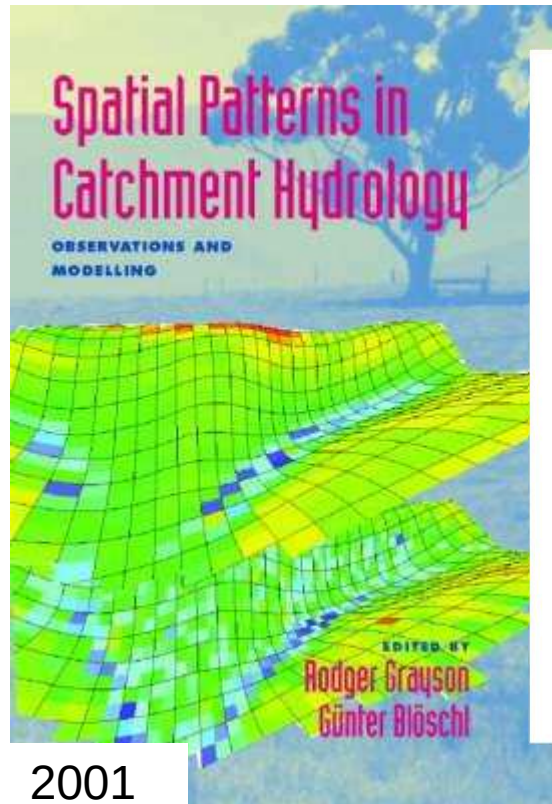


2) LIDAM, Environmental and Maritime Hydraulics Laboratory, University of Salerno, Fisciano (SA), Italy.

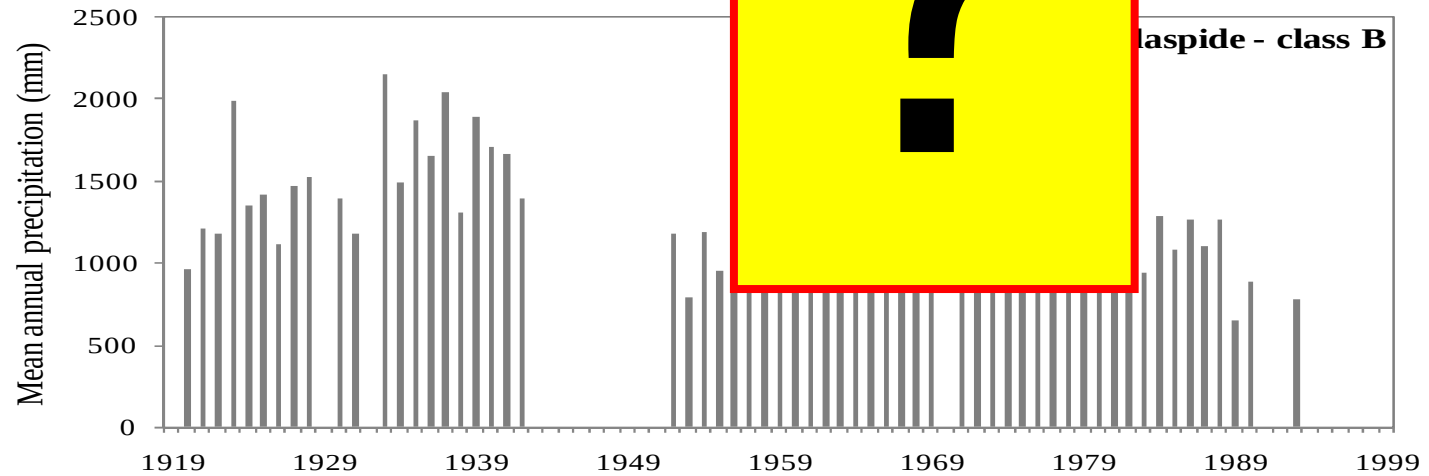
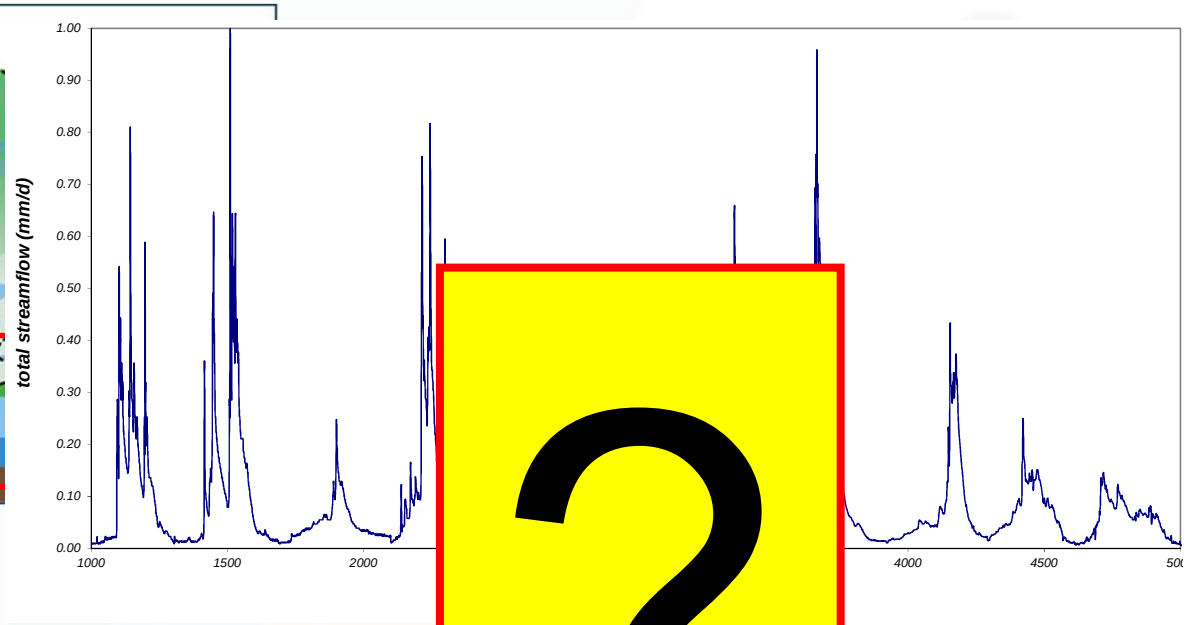
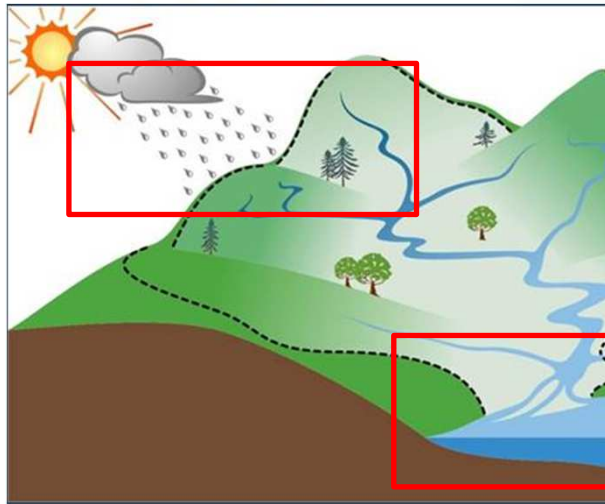
LA RISORSA IDRICA



LA VARIABILITA' SPAZIALE



LA VARIABILITA' TEMPORALE



LA VARIABILITA' TEMPORALE (??)

Il cambiamento climatico

ipcc The IPCC prepares comprehensive Assessment Reports about climate change, its impacts and future risks, and options for reducing the rate of change. Special Reports on topics agreed to by its member governments, as well as Methodology Reports on the preparation of greenhouse gas inventories. Learn more about the reports [here](#).

Latest and Upcoming Report

Special Report

Global Warming of 1.5°C

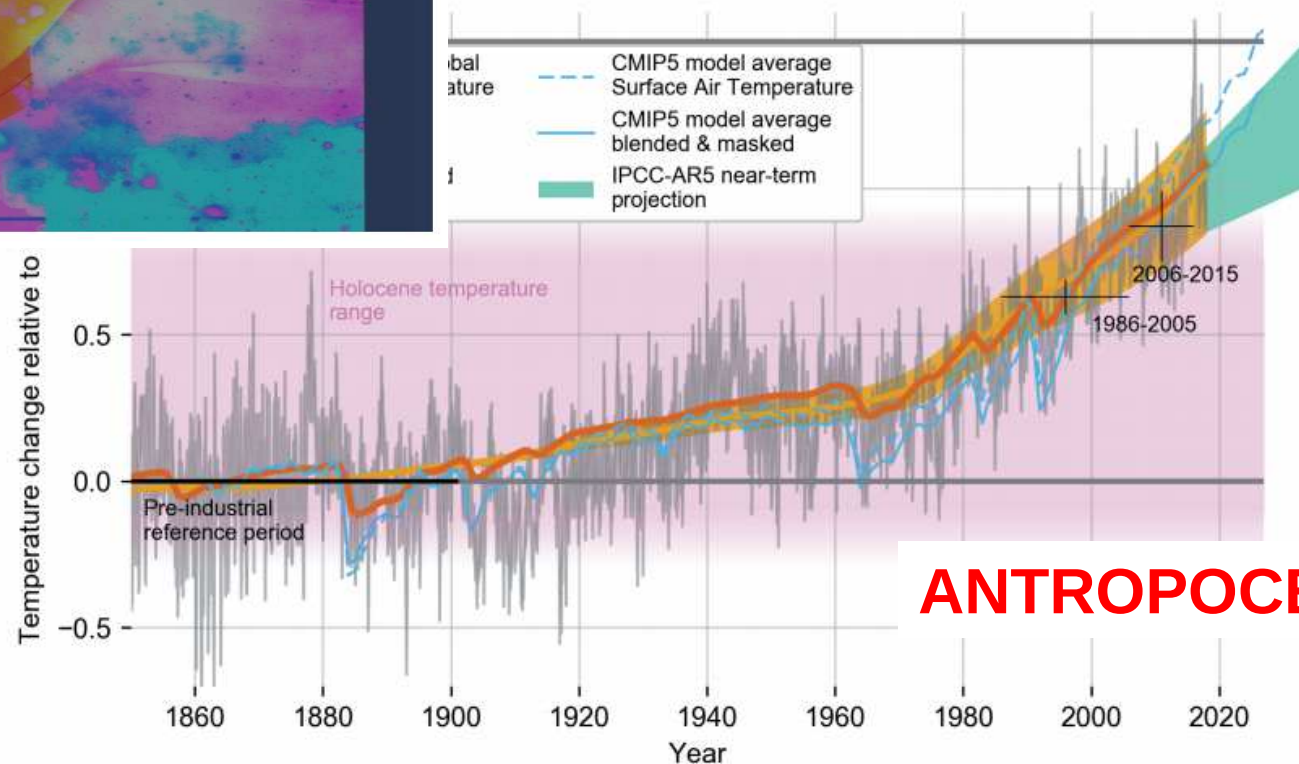
October 2018

ipcc

REPORTS WORKING GROUPS ACTIVITIES NEWS CALEND

About the IPCC

The Intergovernmental Panel on Climate Change (IPCC) is the United Nations body for assessing the science related to climate change.



ANTROPOCENE

LA VARIABILITA' TEMPORALE (??)

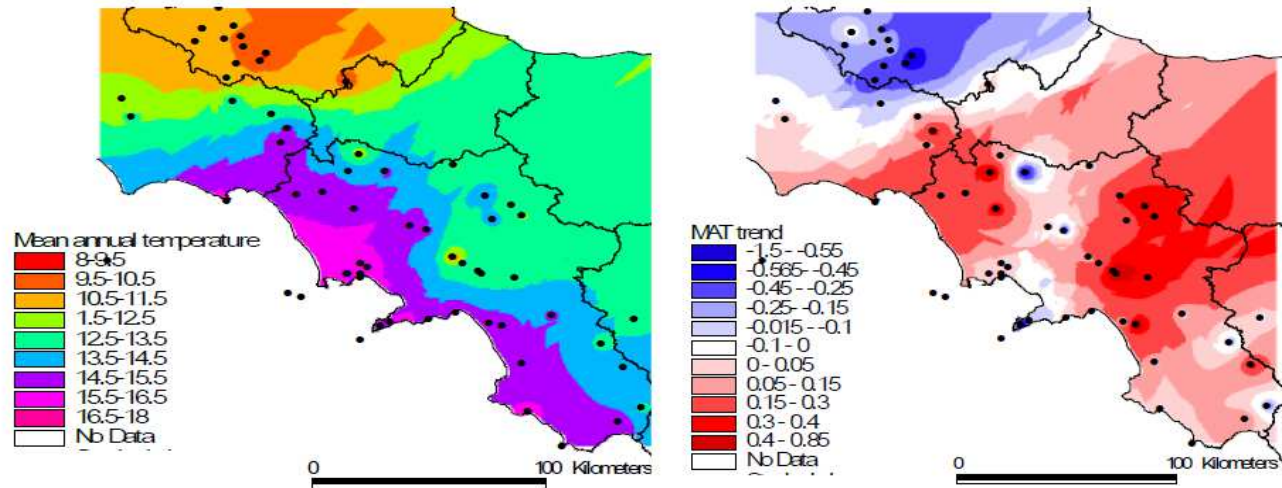


Figure 4.1: Mean annual temperature (left panel) and mean annual temperature trend spatial distribution (°C/decade – right panel) for the studied area.

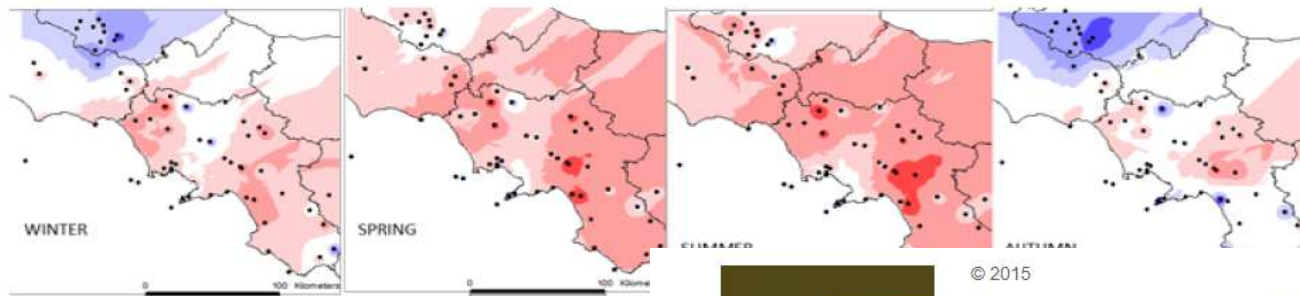


Figure 4.2: Seasonal temperature trend spatial distribution (°C/decade – right panel) for the studied area.

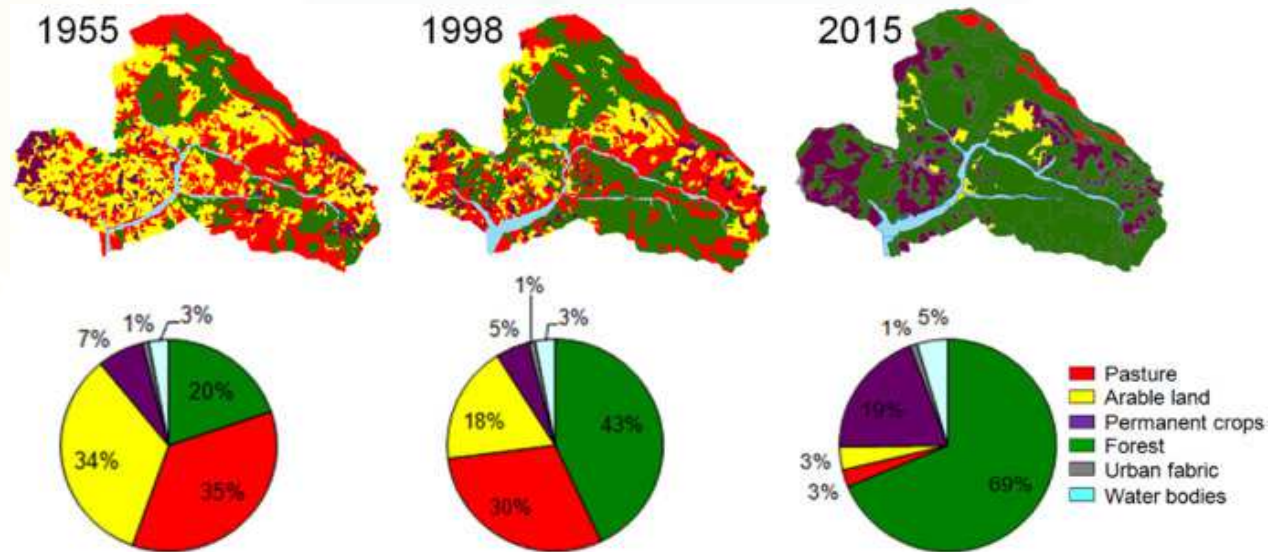


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Engineering Geology for Society and Territory - Volume 3

River Basins, Reservoir Sedimentation and Water Resources

LA VARIABILITA' TEMPORALE (??)



Science of The Total Environment

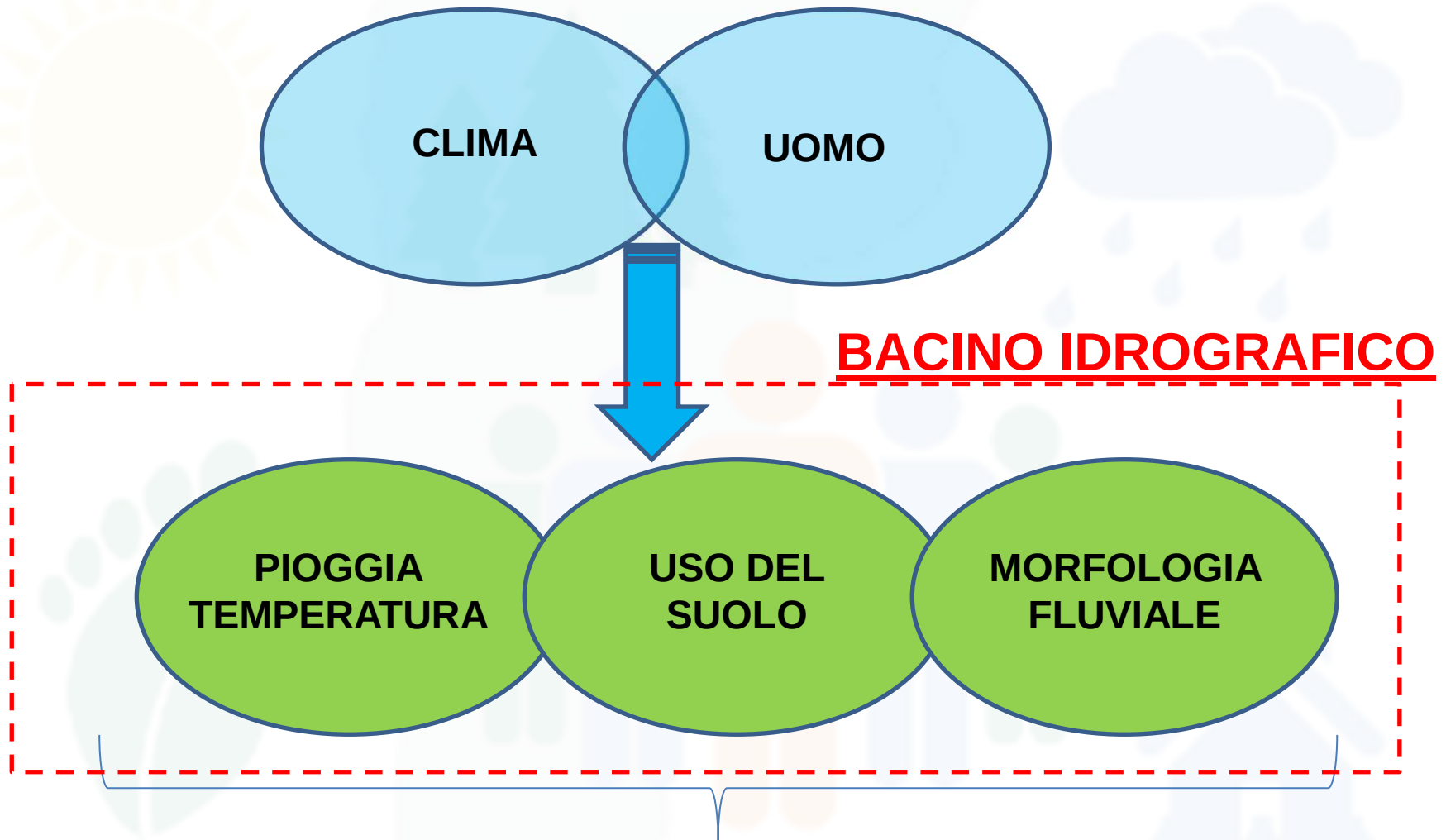
Volumes 605–606, 15 December 2017, Pages 1070–1082



Assessing long-term impact of land-use change on hydrological ecosystem functions in a Mediterranean upland agro-forestry catchment

Paolo Nasta ^a, Mario Palladino ^a, Nadia Ursino ^b, Antonio Saracino ^c, Angelo Sommella ^a, Nunzio Romano ^a ✉

CAMBIAMENTI NELLA RISORSA DISPONIBILE



CAMBIAMENTI NEL REGIME FLUVIALE

ALLUVIONI



FIUME SELE



TORRENTE
SOLOFRANA
(FISCIANO) – 29.10.2015



FIUME CALORE (BENEVENTO) – 15.10.2015

Il Sele in m

FIUME

Arpa Campania Ambiente
online
Agenzia Regionale per la Protezione Ambientale della Campania

rivista@arpacampania.it

QUINDICINALE DI INFORMAZIONE AMBIENTALE - ONLINE

31 LUGLIO 2017 - Anno XIII N.14

La siccità in Campania nel 2017: alcune cifre

Da aprile a giugno, piogge ridotte del 50% rispetto alla media storica

L'anomalia pluviometrica negativa del 2017 in Campania si sta protrando dall'inizio dell'anno ad oggi ed è associata negli ultimi mesi ad anomalie positive delle temperature. Questi due fattori cruciali del bilancio idrogeologico, unitamente alle carenze infrastrutturali del sistema acquedottistico, hanno causato a partire da giugno situazioni di ridu-

L'EDITORIALE

Qualità aria: impegno extra per monitorarla

di Luigi Stefano Sorvino

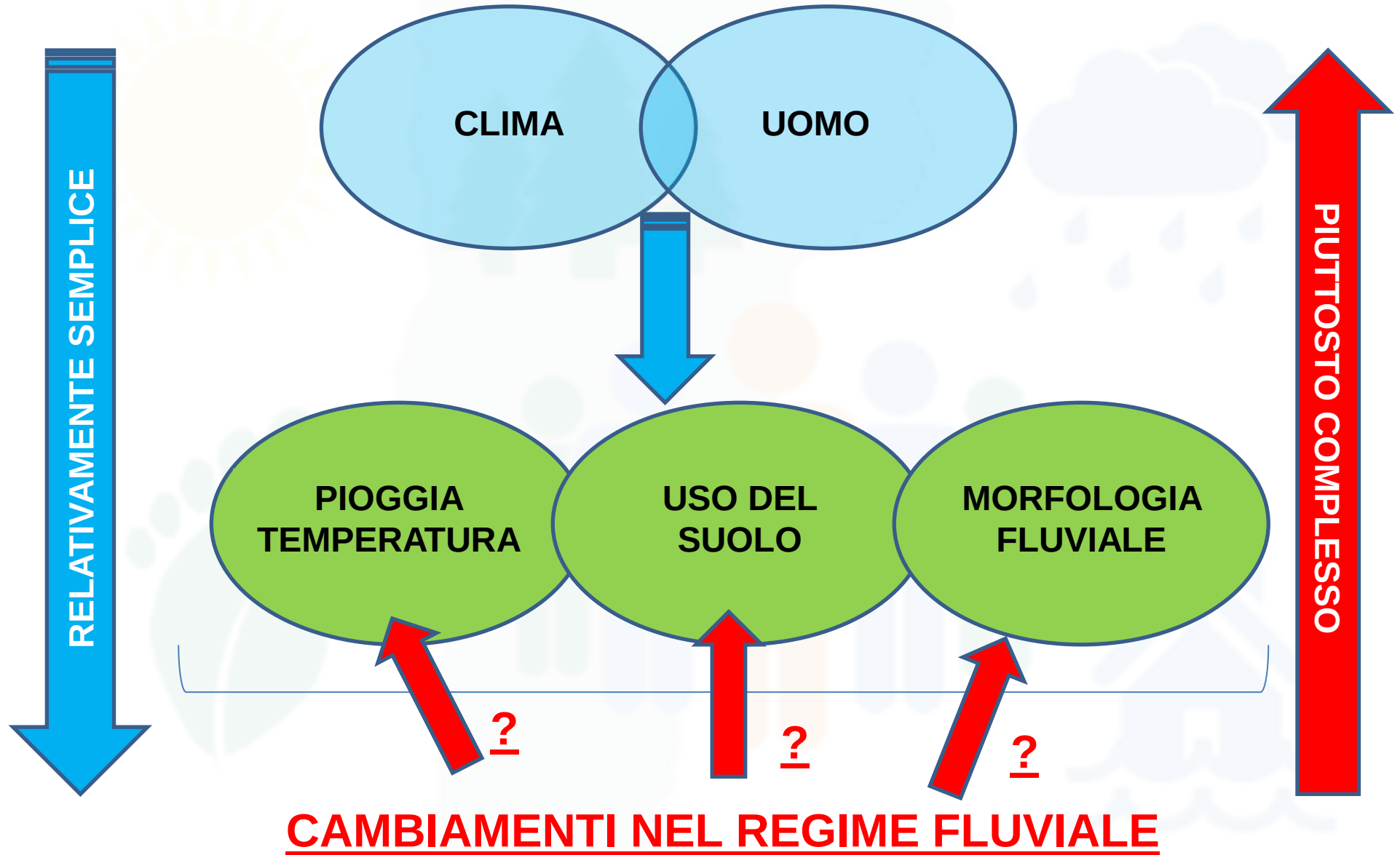
Sono già trascorsi quattro mesi dal mio insediamento nella gestione commissaria-

vio. La pericolosità e virulenza dei focolai estivi di lunga durata ha fortemente impegnato l'apparato tecnico dell'Agenzia per il mo-

DM n°9588 campania DL 8 siccità marzo settembre 17 AV BN CE NA SA.

Decreto di declaratoria eccezionali avversità atmosferiche verificatesi nei territori della Regione Campania dal 21 marzo 2017 ai 21 settembre 2017.

CAMBIAMENTI NELLA RISORSA DISPONIBILE



SEGUIAMO LA LINEA BLU.....

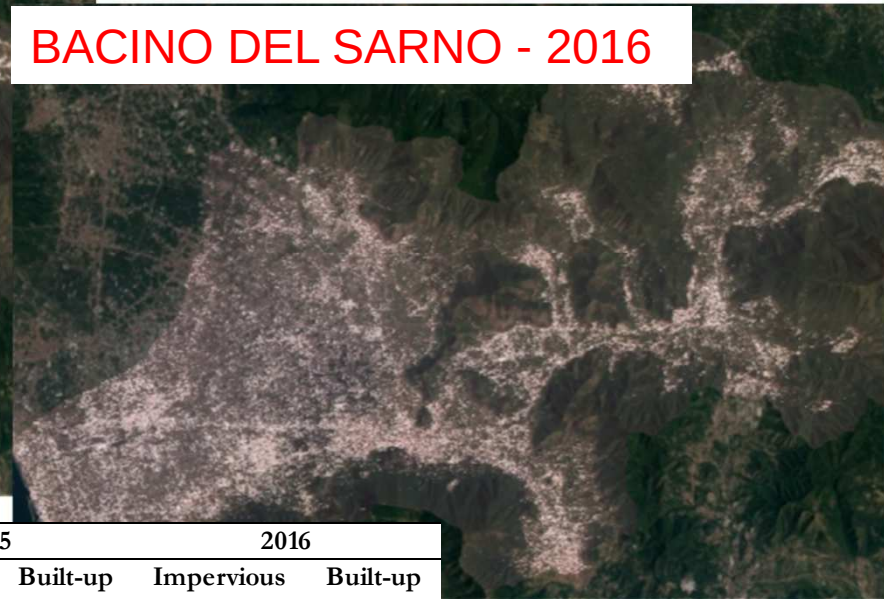
The use of high resolution SAR images for flood risk assessment and flood risk changes in peri-urban Environments (Chair and Principal investigators: COSMO-SkyMed Open Call for Science, ASI, 2016-2019)

RELATIVAMENTE SEMPLICE

BACINO DEL SARNO - 1995



BACINO DEL SARNO - 2016



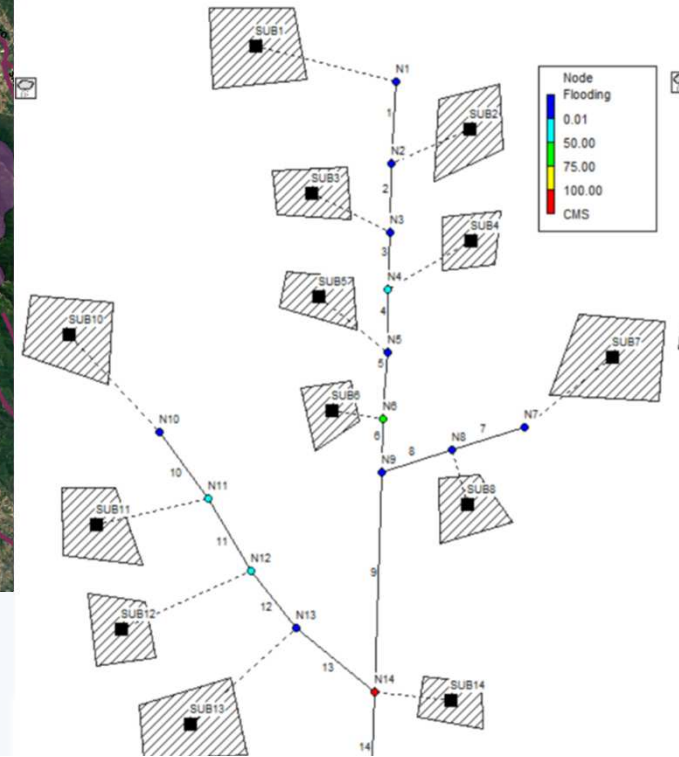
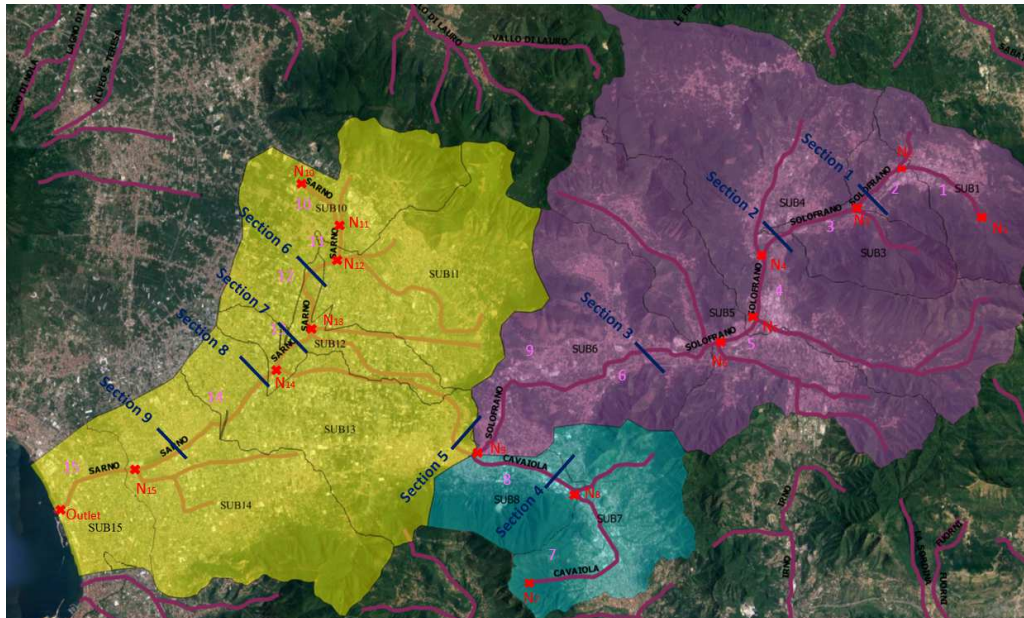
Basin	Total area	1995		2016	
Name	Pixel	Impervious area (Pixel)	Built-up area (%)	Impervious area (Pixel)	Built-up area (%)
Sarno	736237	54494	7,40	91123	12,38
Calvagnola	71087	7105	9,99	9203	12,95
Complementary	300314	31638	10,53	55320	18,42
Solofrana	364836	15751	4,32	26600	7,29
ISPRA (South)	-	-	5,00	-	6,30

BUILD-UP INDEX INCREASED BY 73%

M. Mobilia, A. Longobardi, D. Amitrano, G. Ruello (2018). Analisi dei cambiamenti climatici e di uso del suolo in un bacino peri-urbano prone al rischio idrogeologico. In: XXXVI Convegno di Idraulica e Costruzioni Idrauliche, Università Politecnica delle Marche, (Ancona, 12-14 Settembre 2018).

SEGUIAMO LA LINEA BLU.....

RELATIVAMENTE SEMPLICE



Environmental Topics

Laws & Regulations

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[CONTACT US](#)

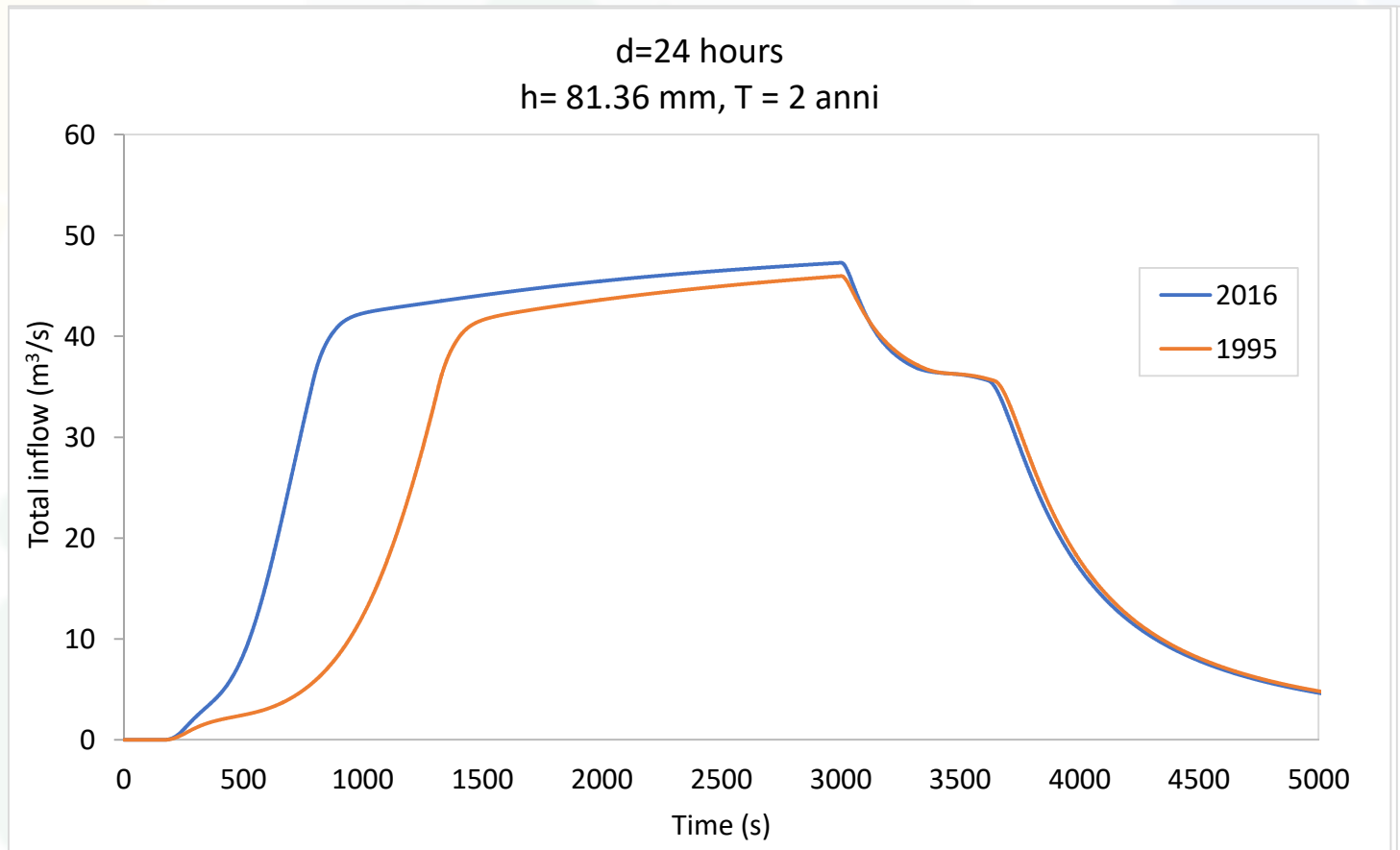
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Storm Water Management Model (SWMM)

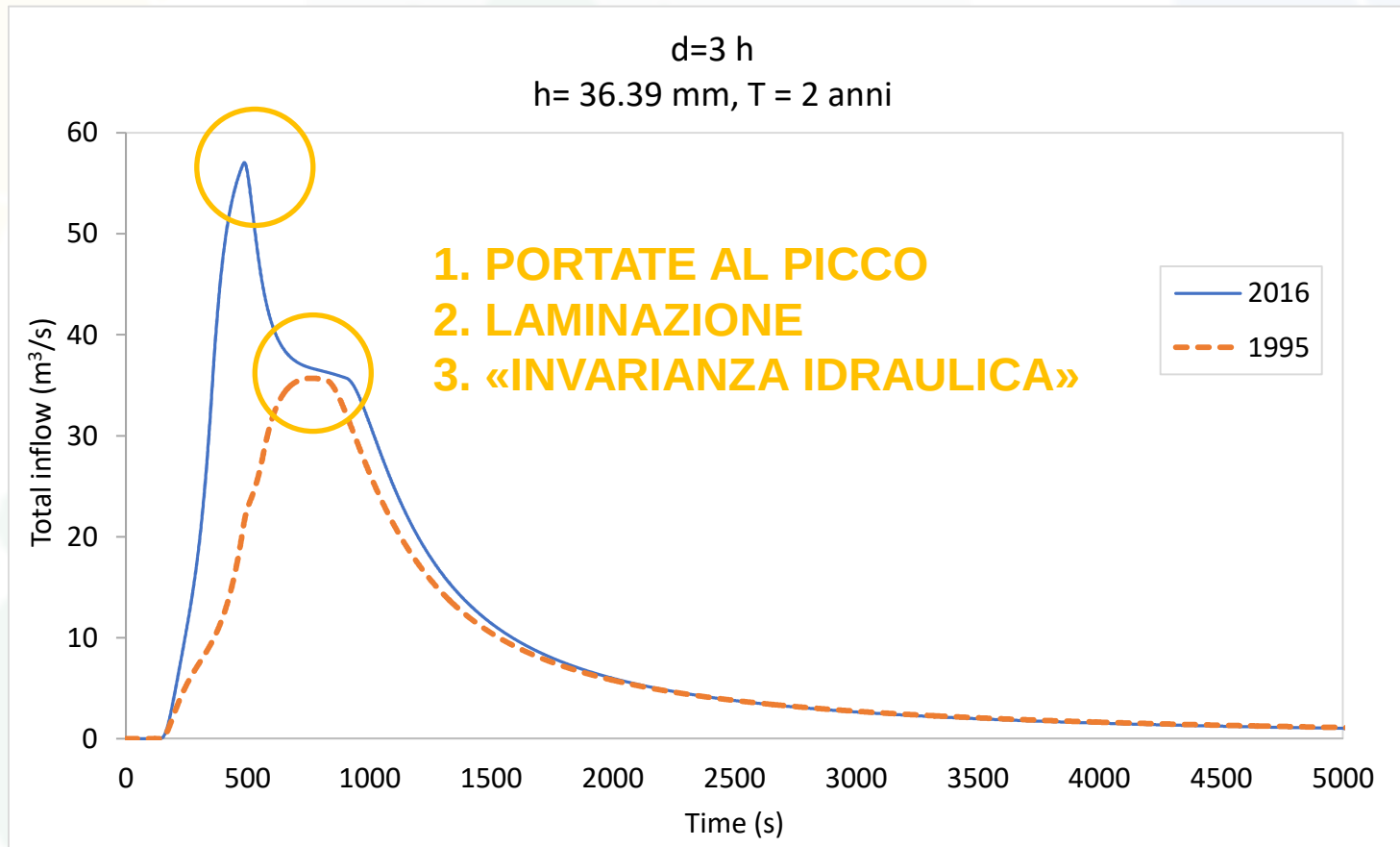
SEGUIAMO LA LINEA BLU.....RISULTATI

RELATIVAMENTE SEMPLICE



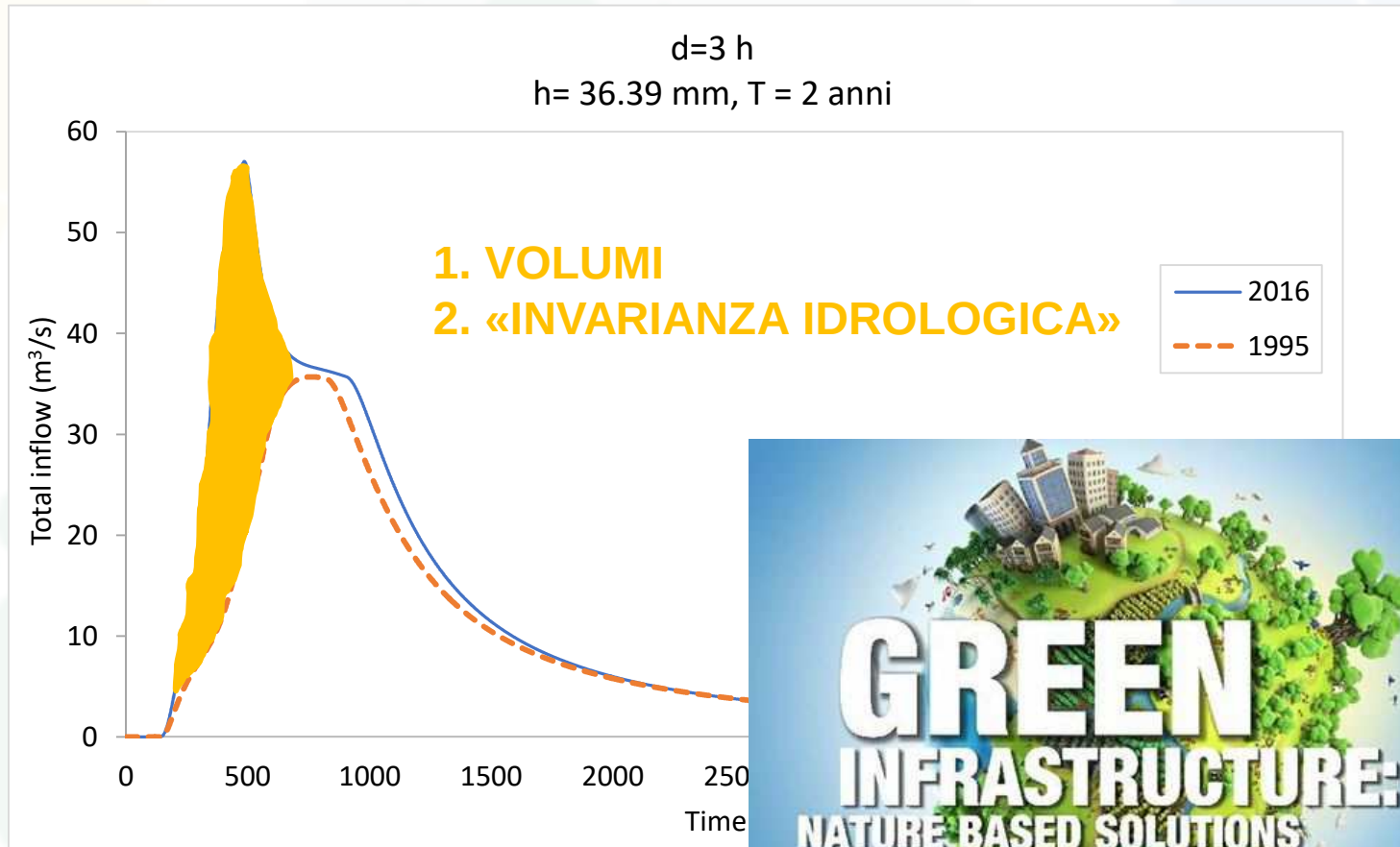
SEGUIAMO LA LINEA BLU.....AZIONI DI MITIGAZIONE

RELATIVAMENTE SEMPLICE

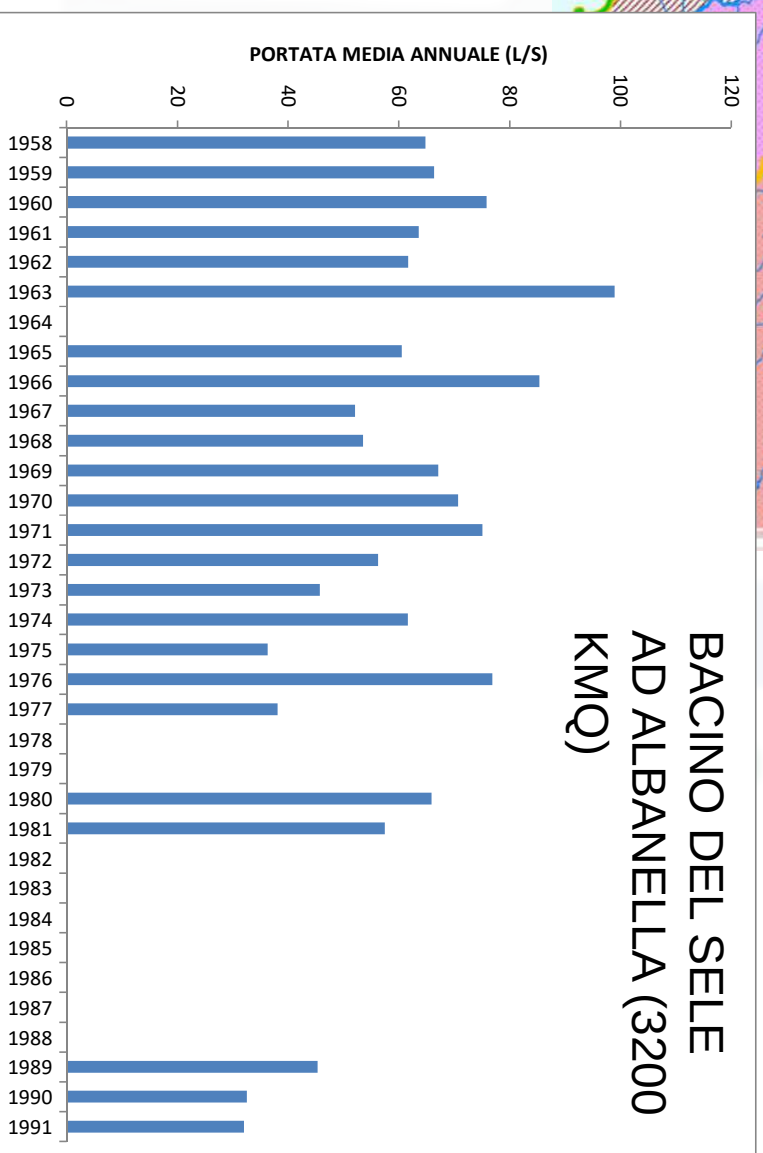
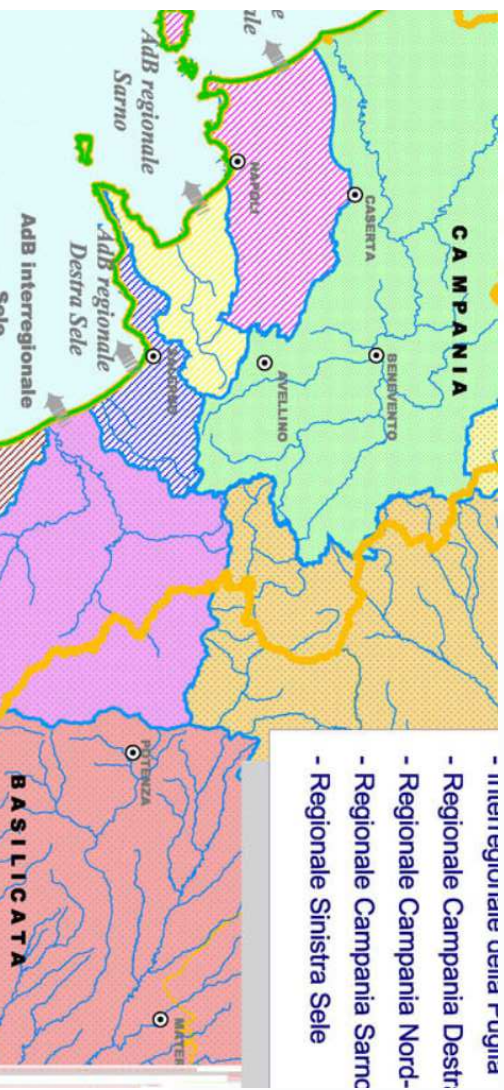


SEGUIAMO LA LINEA BLU.....AZIONI DI MITIGAZIONE

RELATIVAMENTE SEMPLICE

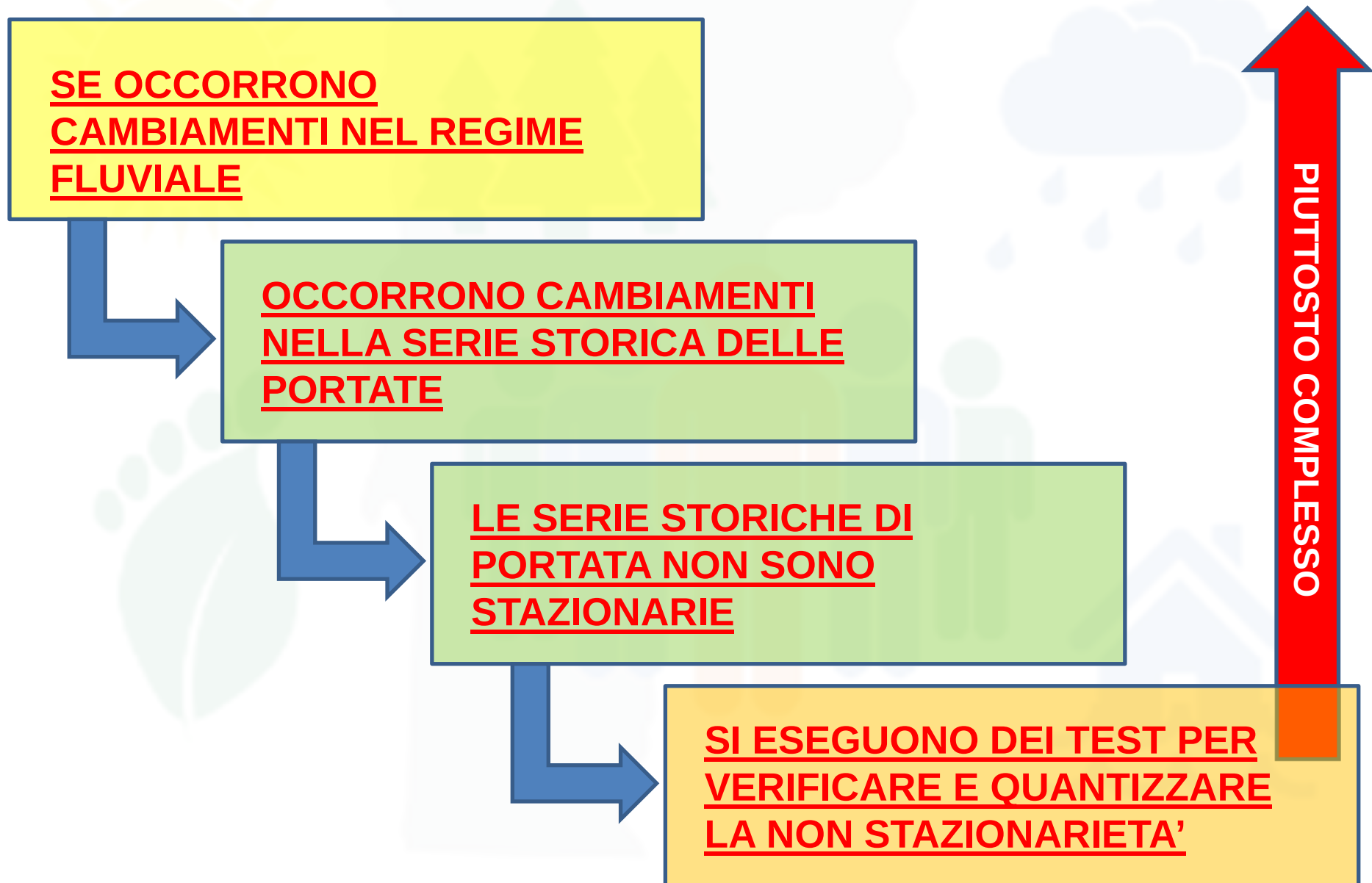


SEGUIAMO LA LINEA ROSSA.....

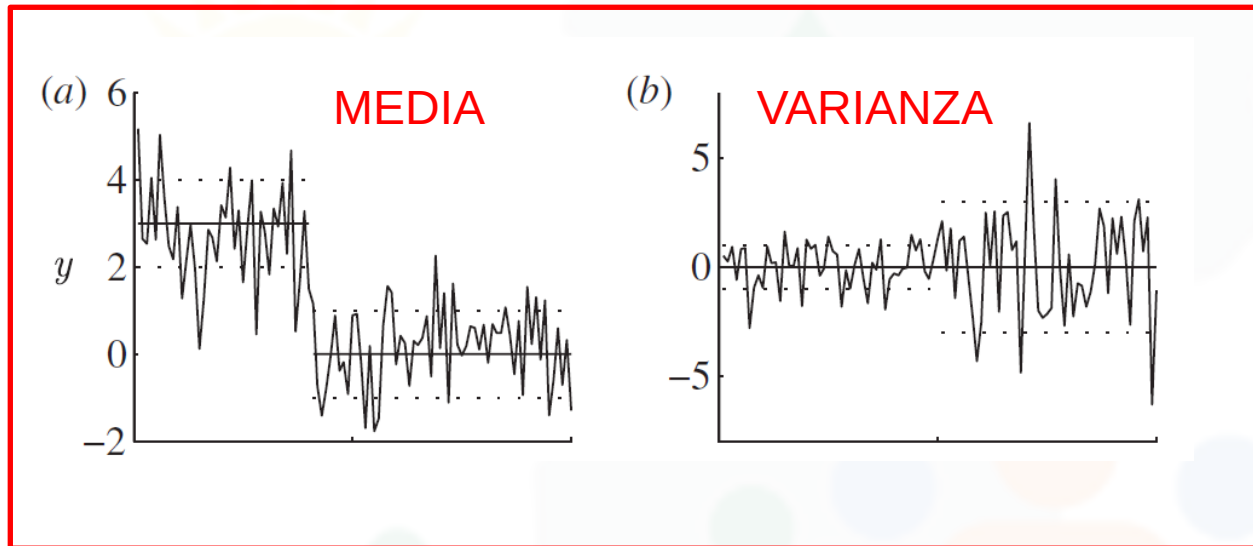


PIUTTOSTO COMPLESSO

SEGUIAMO LA LINEA ROSSA.....

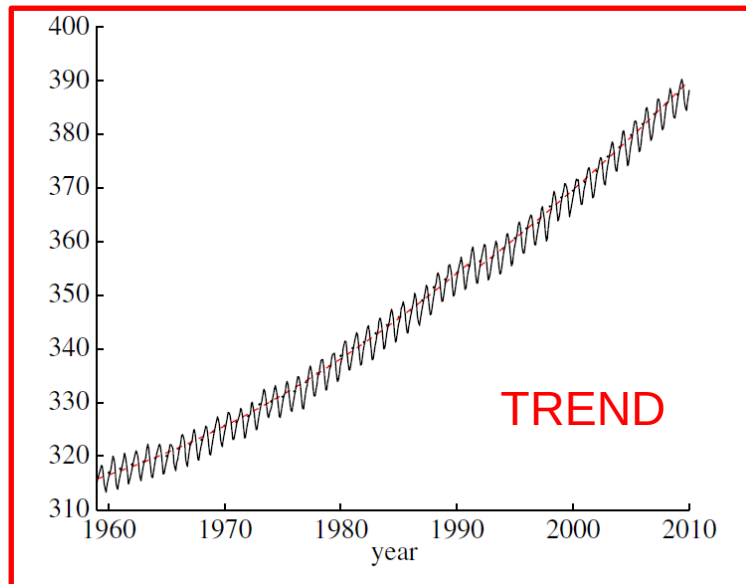


SEGUIAMO LA LINEA ROSSA.....



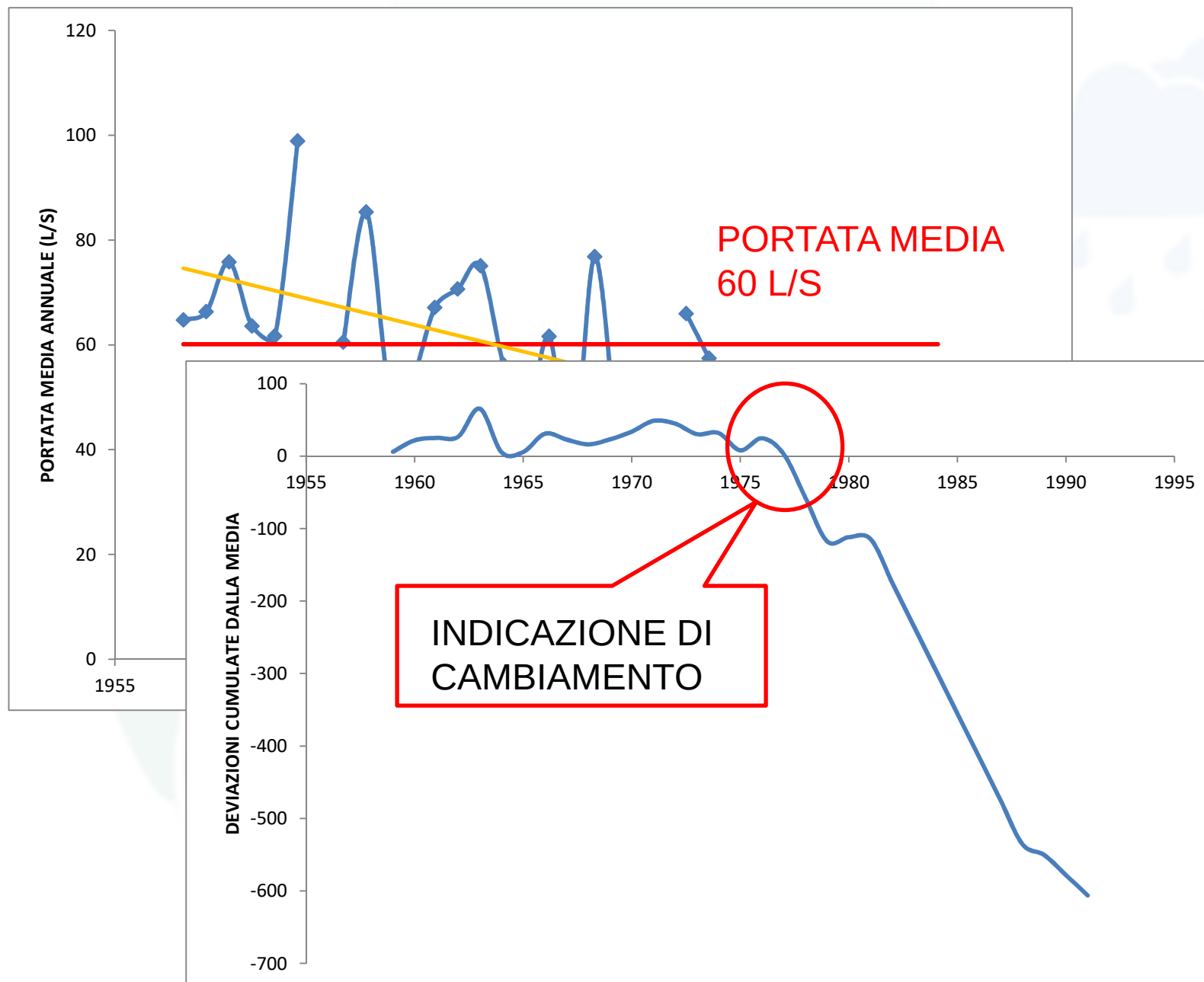
CAMBIAMENTI
REPENTINI

PIUTTOSTO COMPLESSO



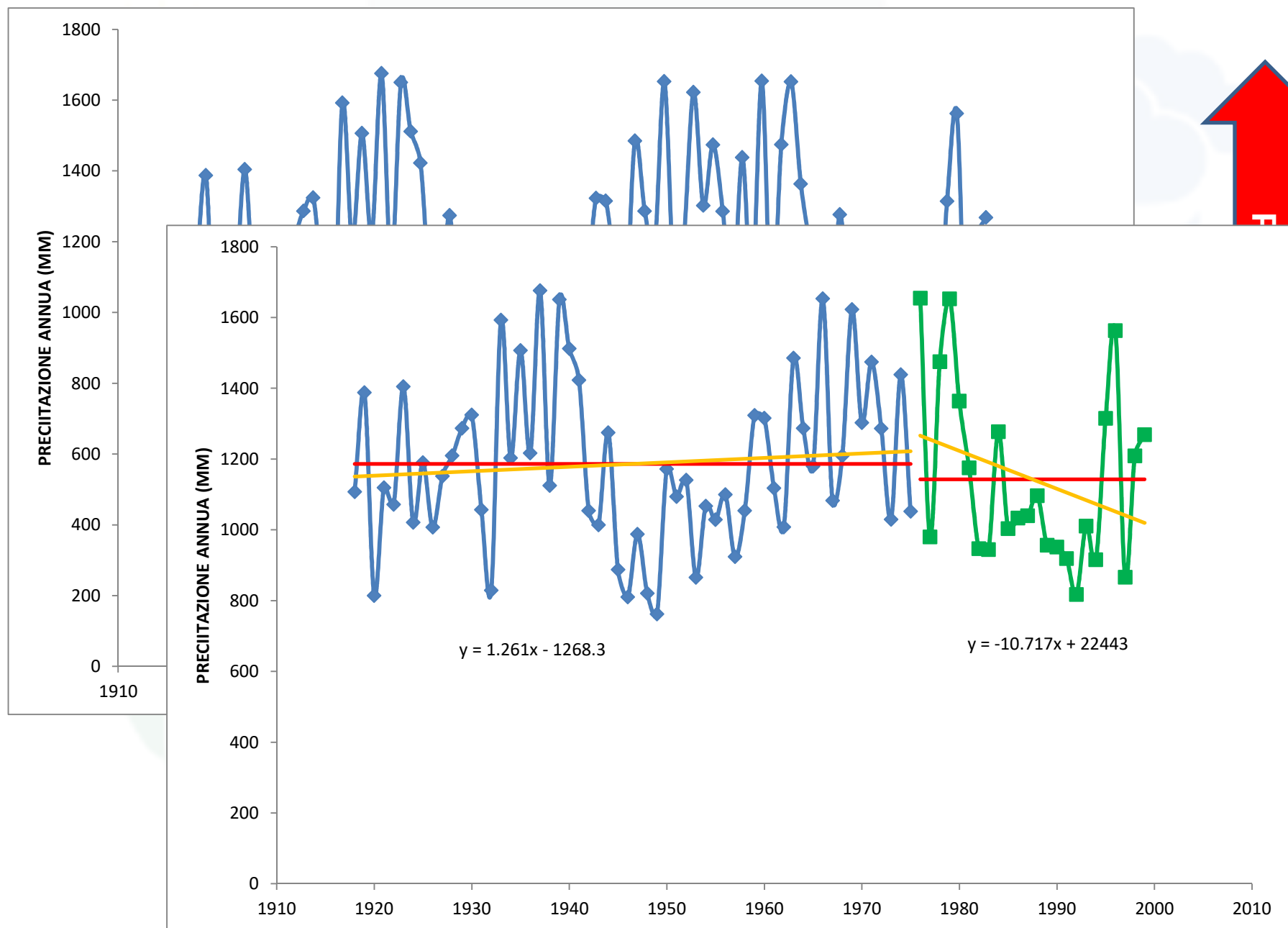
CAMBIAMENTI
GRADUALI

SEGUIAMO LA LINEA ROSSA.....

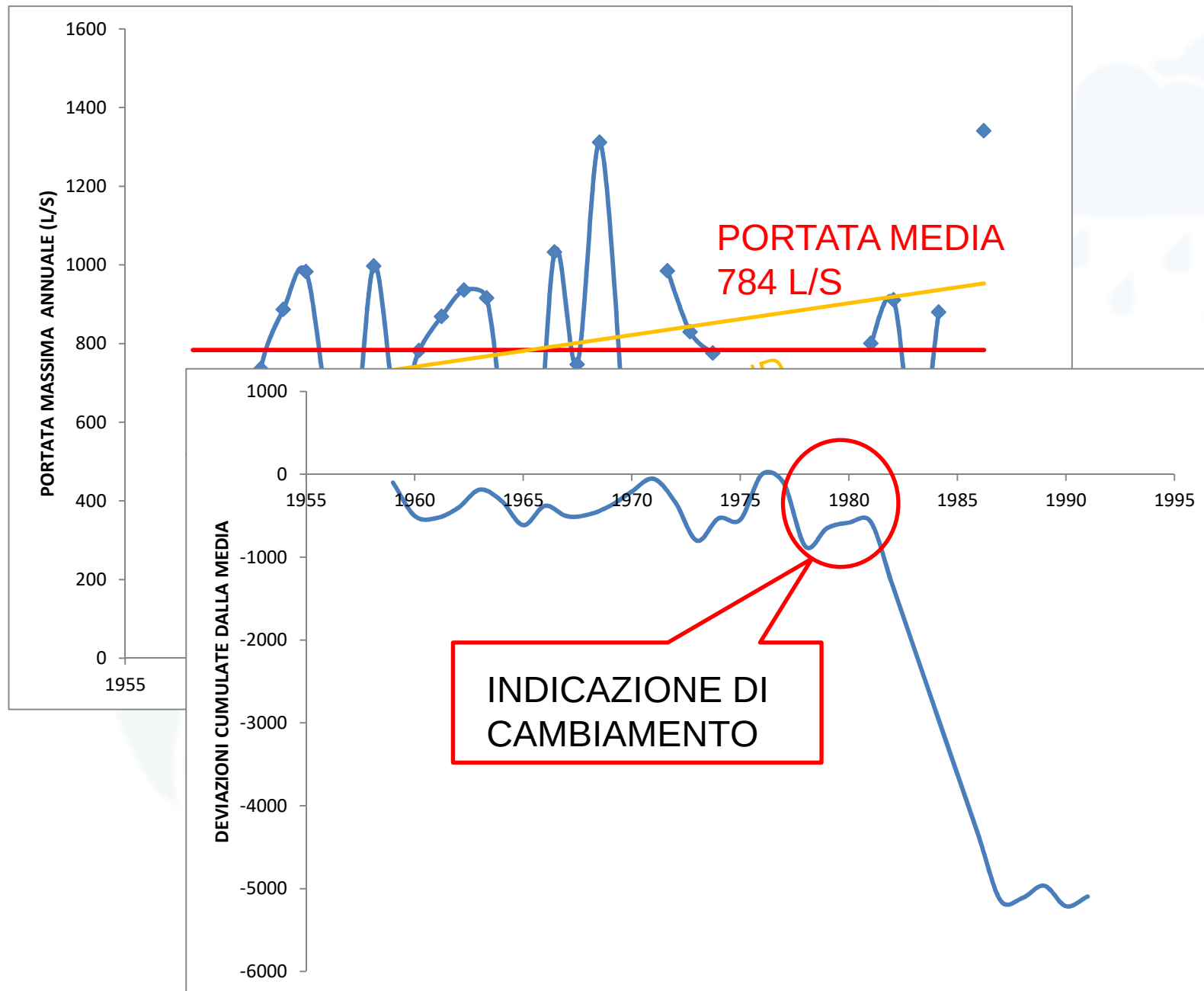


PIUTTOSTO COMPLESSO

SEGUIAMO LA LINEA ROSSA.....

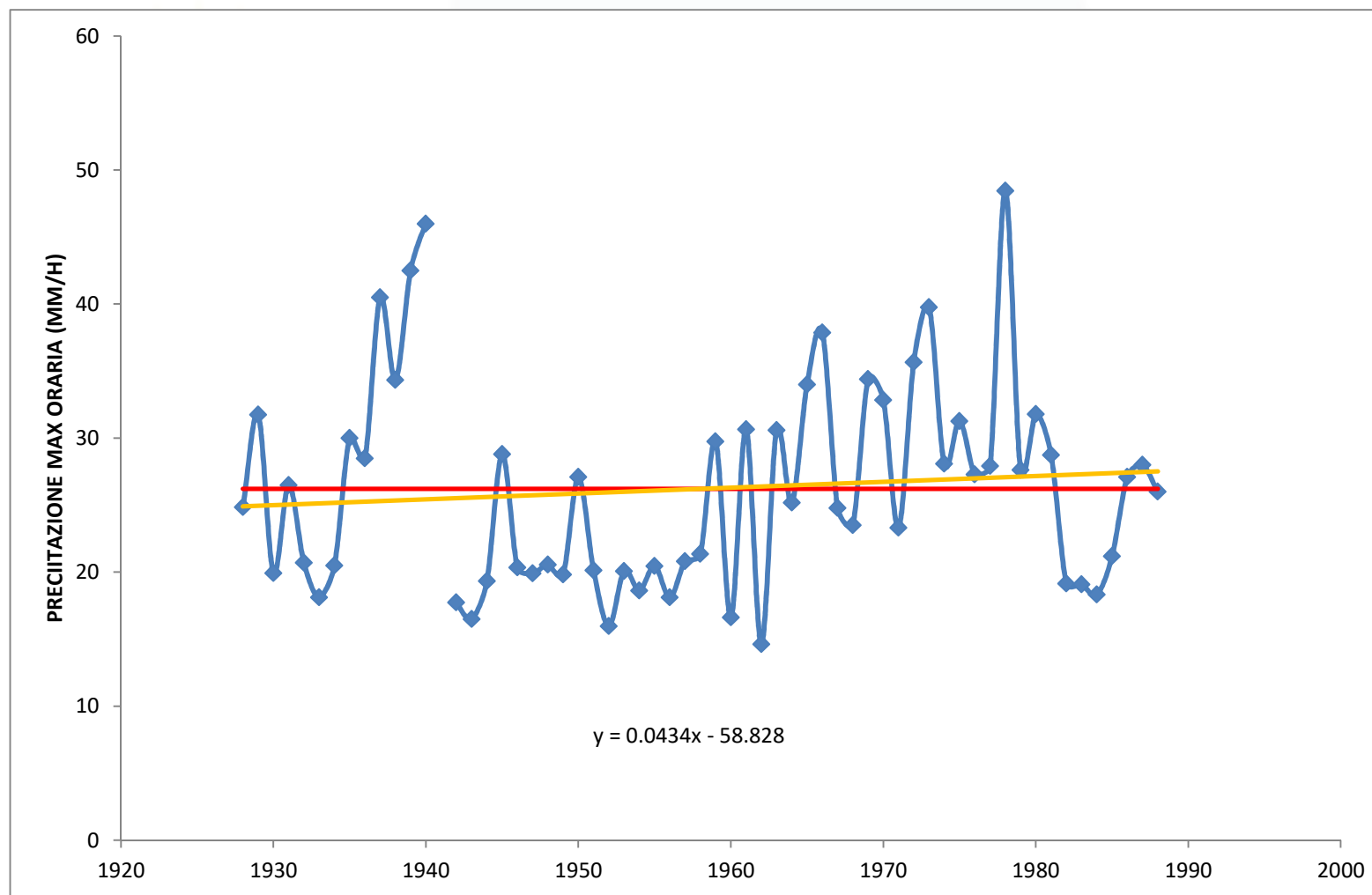


SEGUIAMO LA LINEA ROSSA.....



PIUTTOSTO COMPLESSO

SEGUIAMO LA LINEA ROSSA.....



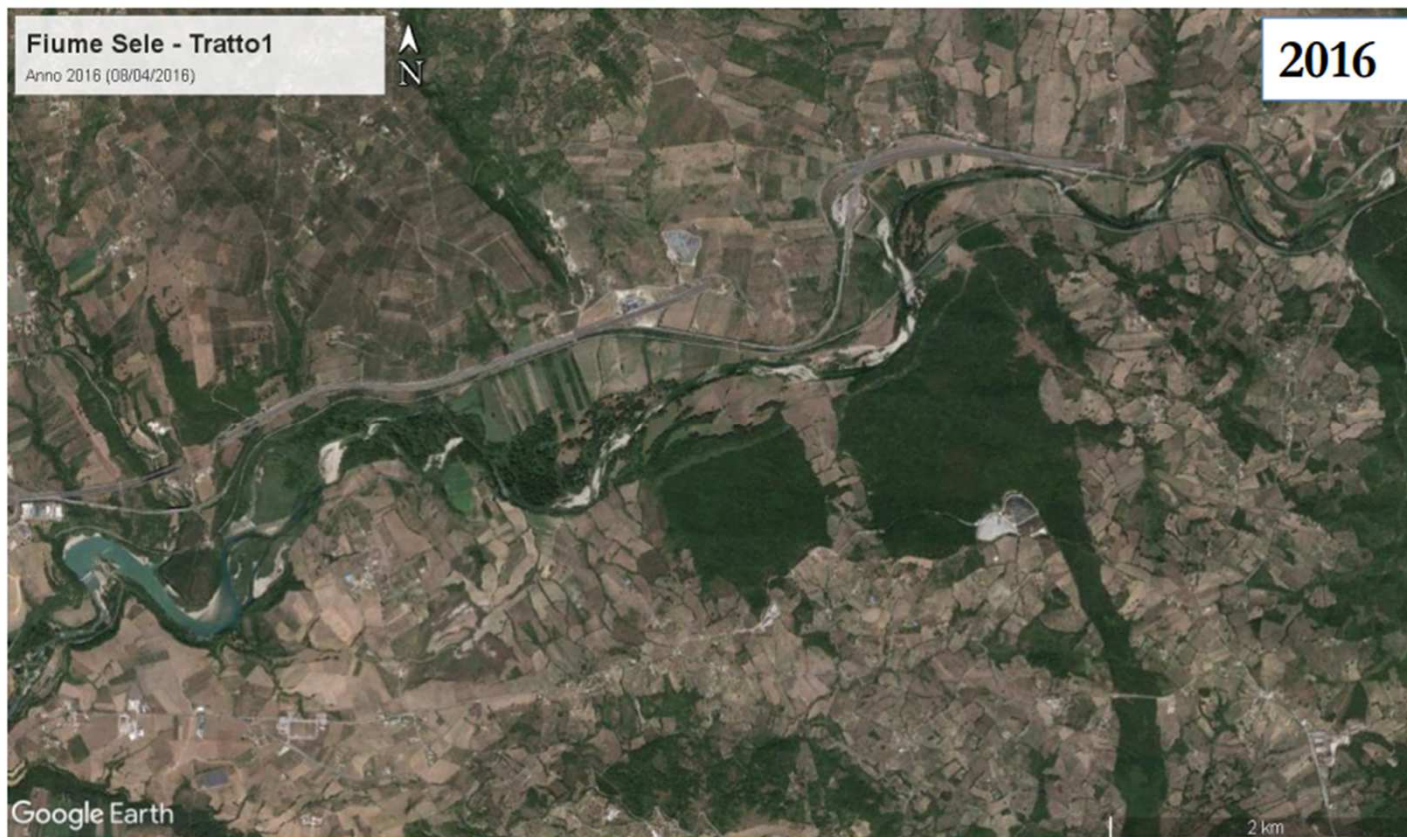
PIUTTOSTO COMPLESSO

SEGUIAMO LA LINEA ROSSA.....



PIUTTOSTO COMPLESSO

SEGUIAMO LA LINEA ROSSA.....



PIUTTOSTO COMPLESSO

SEGUIAMO LA LINEA ROSSA.....



PIUTTOSTO COMPLESSO

Confronto foto aerea 1943
con estrazione canale
attivo da ortofoto 2000

MACRO-UNITS

-  WET CHANNEL
-  SEDIMENT BARS
-  IN-CHANNEL VEGETATION