

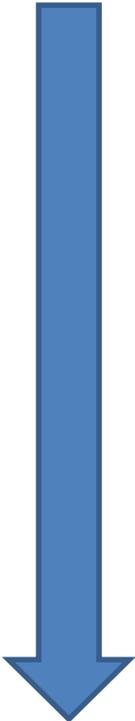


# Changements Climatiques en Méditerranée et Impacts sur le Littoral et le Tourisme Tunisien

Béchir Béjaoui

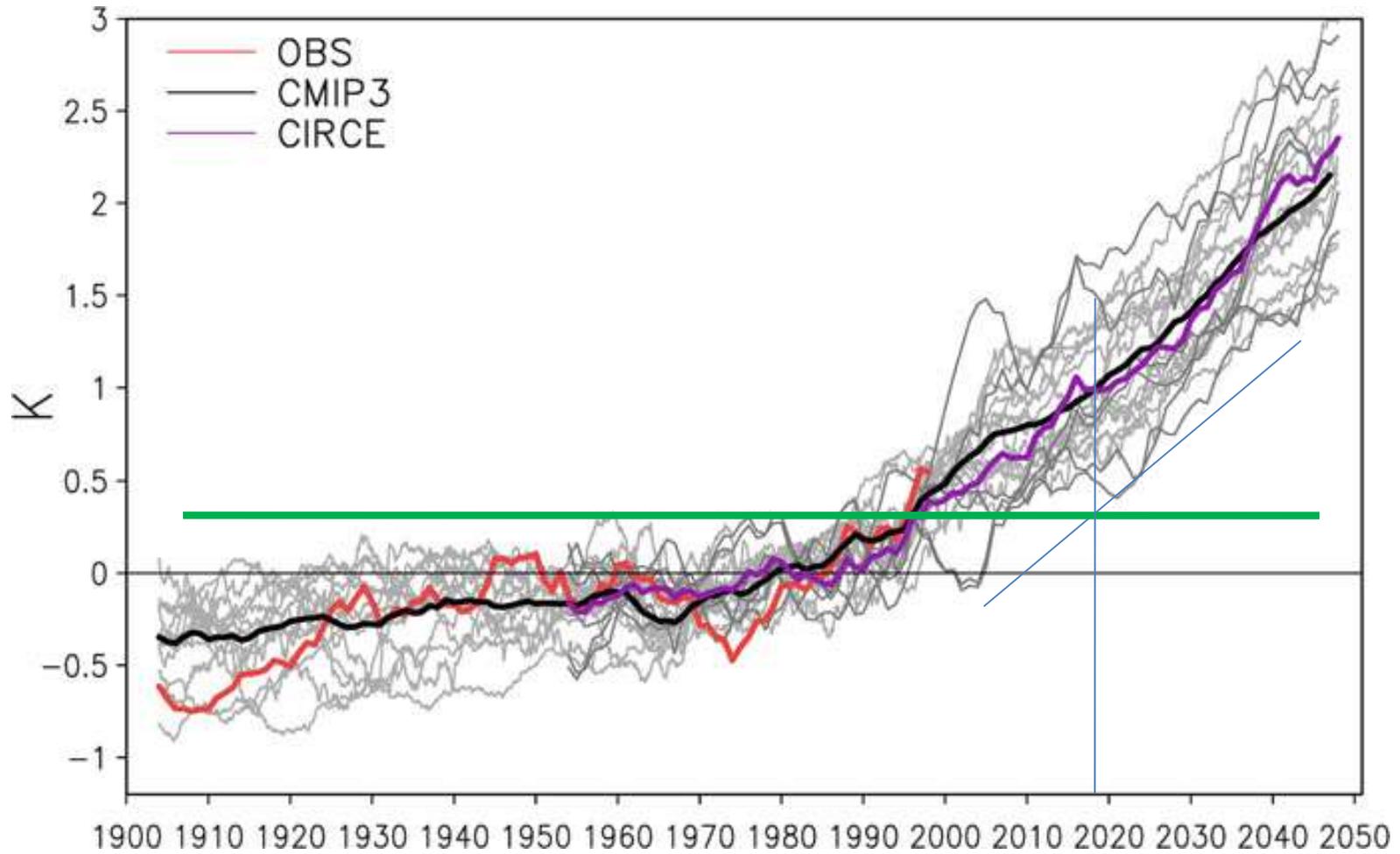
Institut National des Sciences et Technologies de la Mer, Salammbô, Tunisie

## Du global vers le local

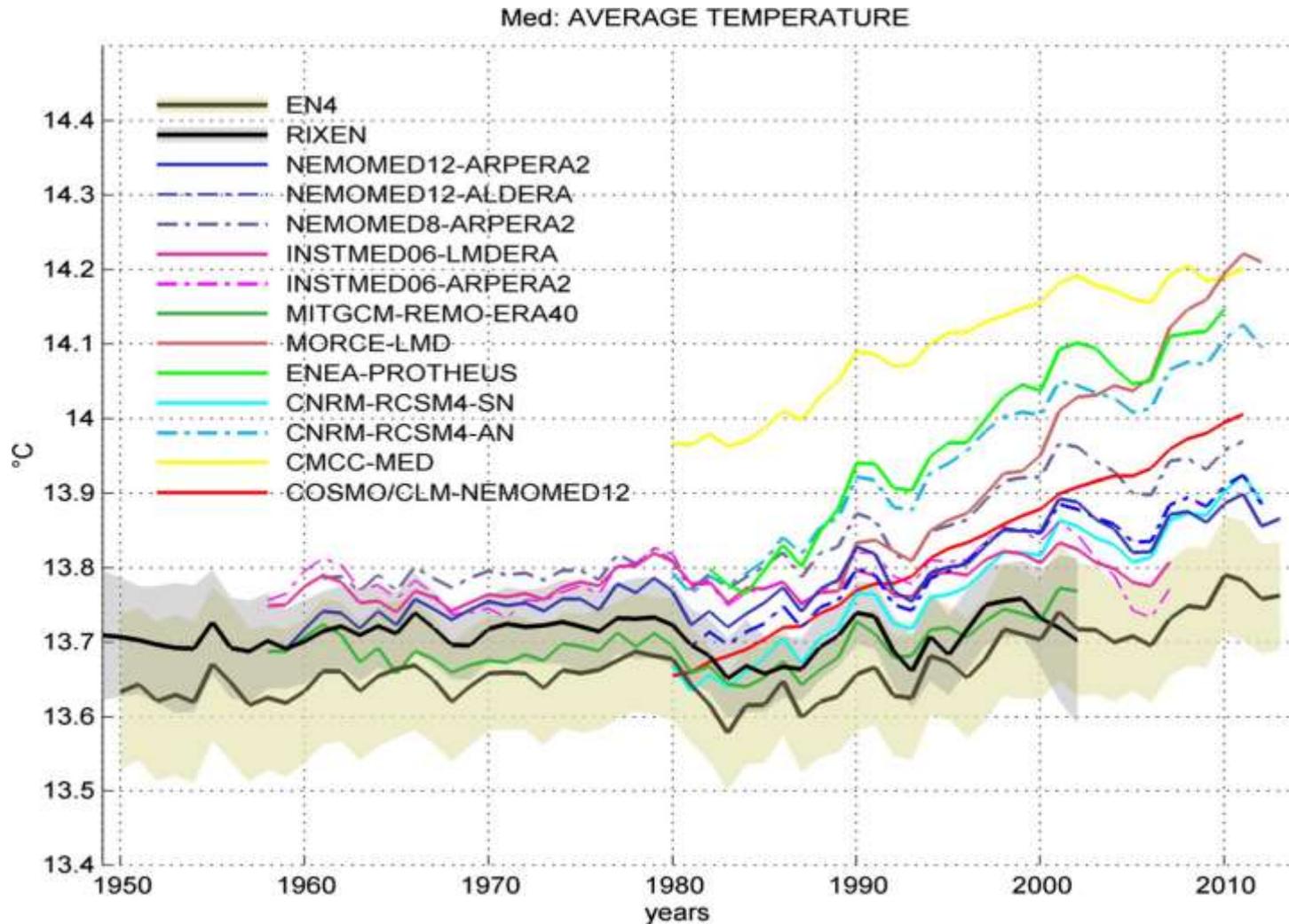
- 
- Echelle régionale: Méditerranée
  - Echelle locale: Littoral
  - Tourisme

# LA MEDITERRANEE

## 2m air Temperature

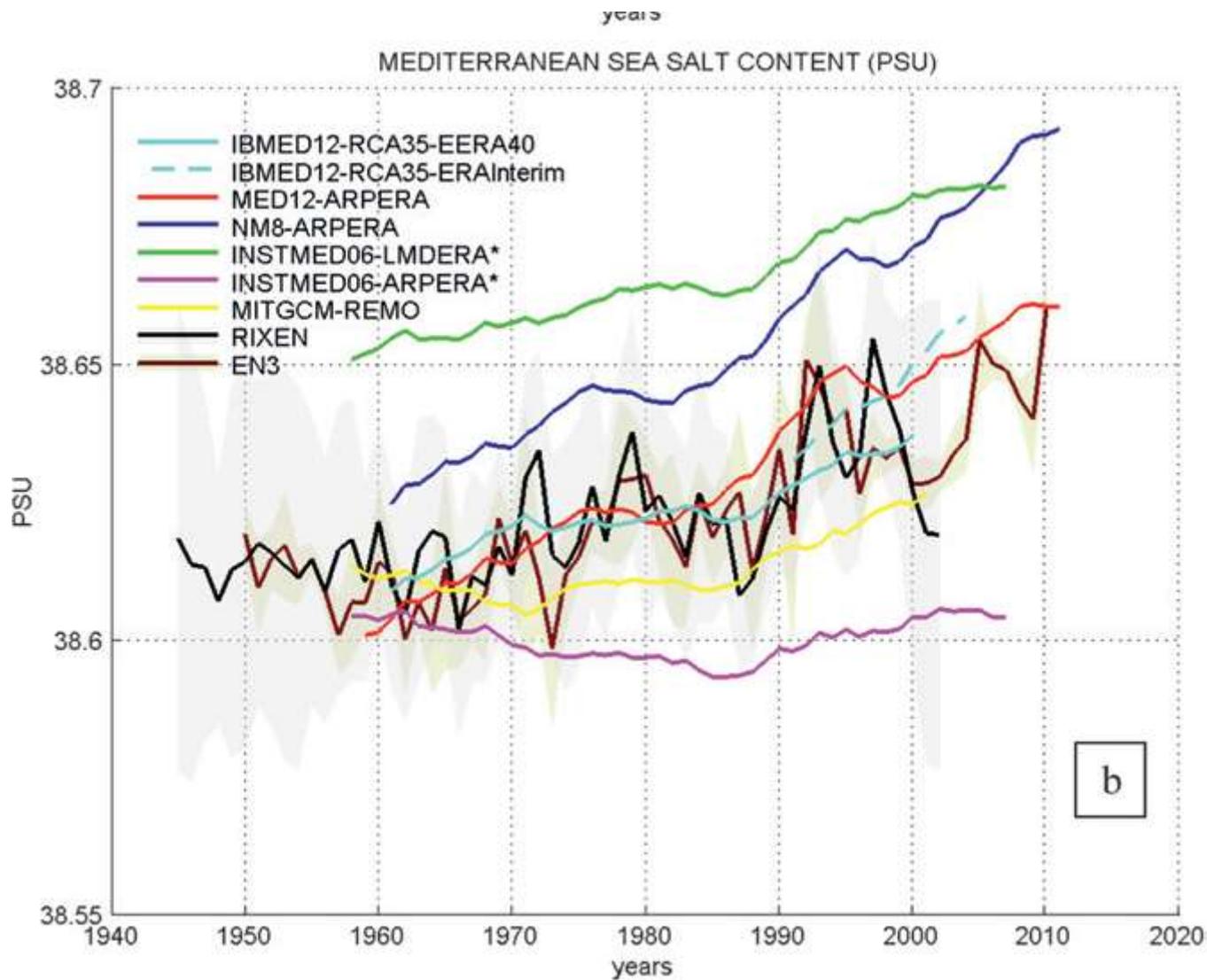


# TEMPERATURE DE LA MER MEDITERRANEE

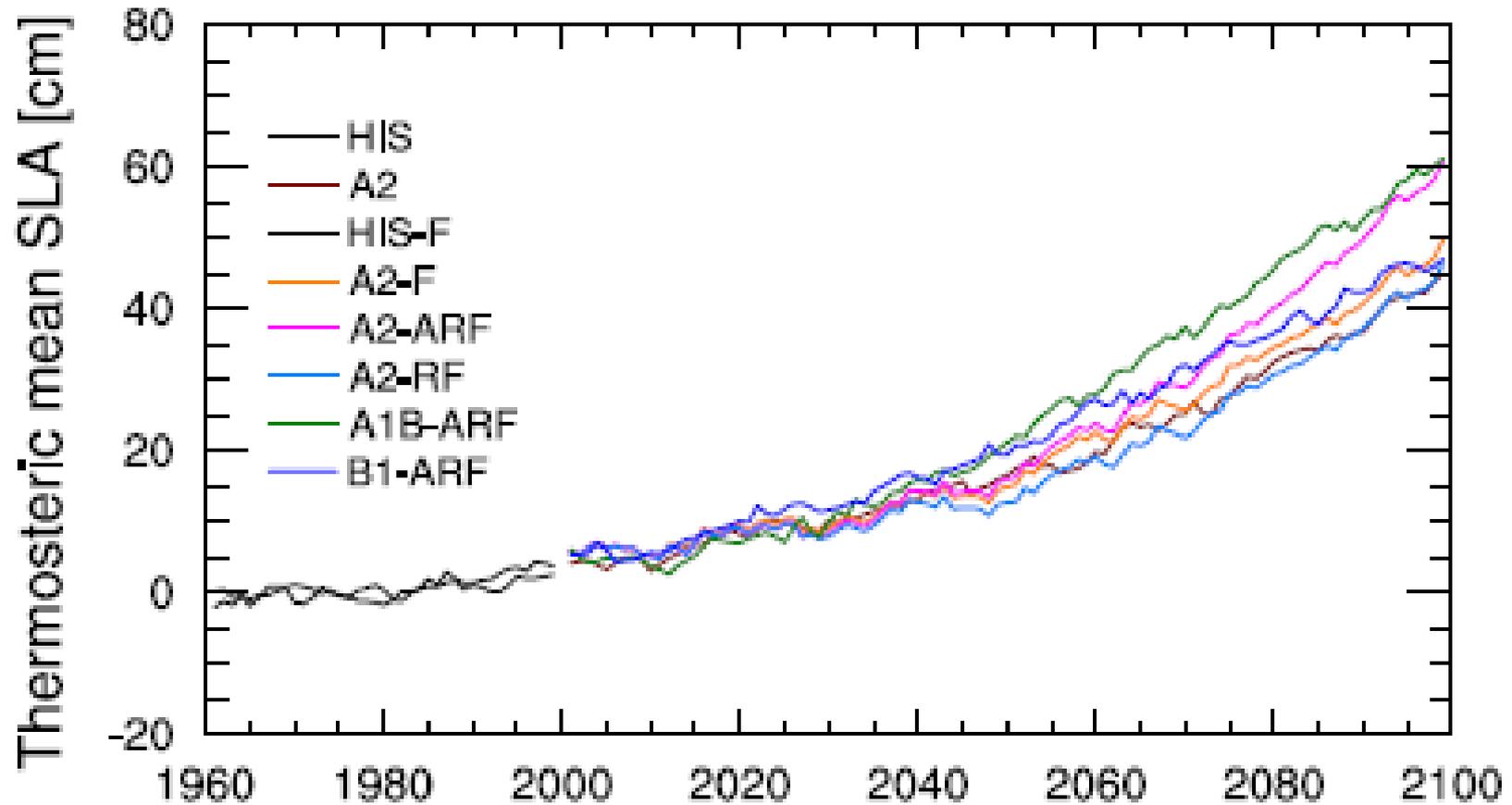


Harzallah et al. (2016)

# SALINITE DE LA MER MEDITERRANEE



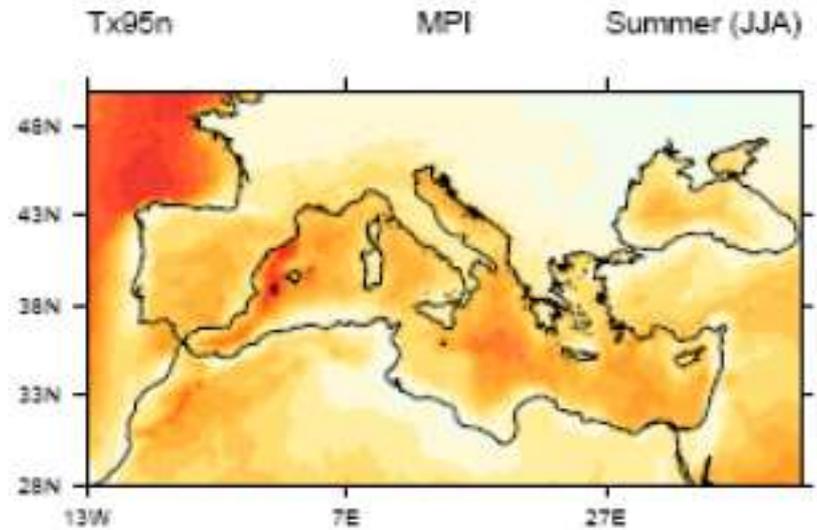
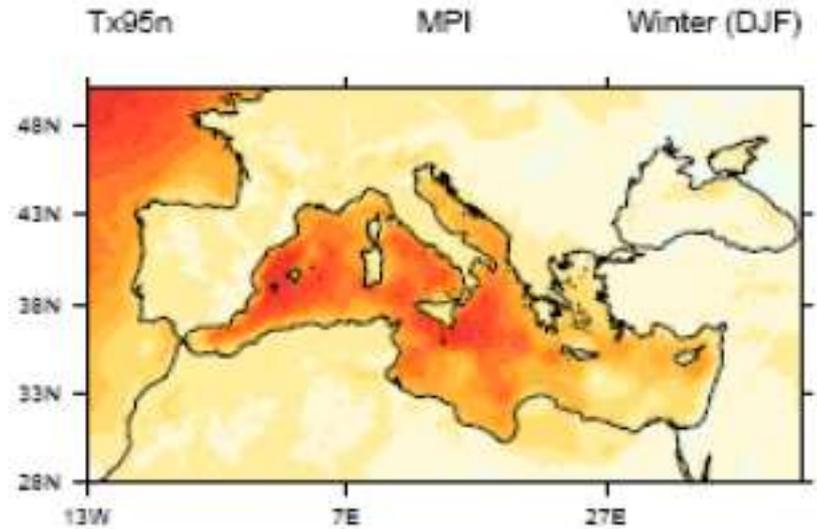
# NIVEAU DE LA MER MEDITERRANEE



Adlof et al. (2015)

# Journées très chaudes : changement

2021-2050 / 1961-1990





**INSTM**

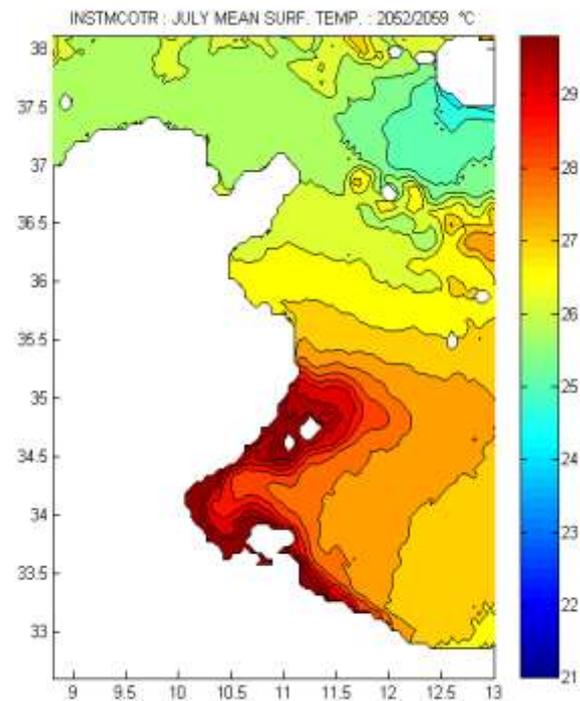
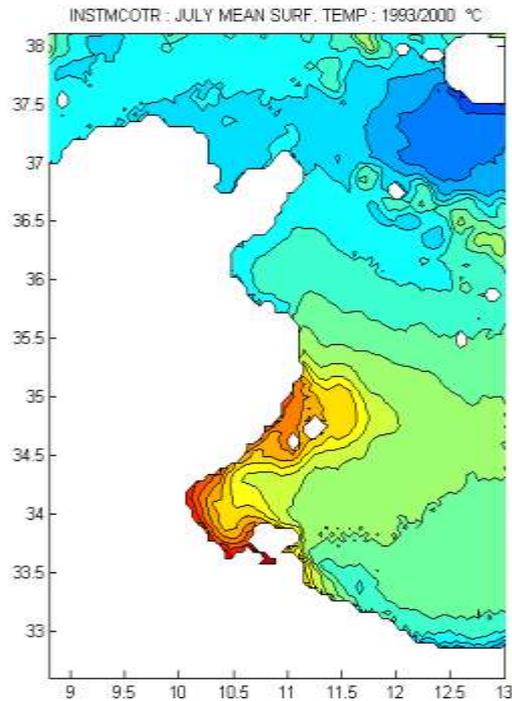
# LITTORAL TUNISIEN

# Changements climatiques

## TEMPERATURE DE L'EAU DE MER

1990..

2050..



JUILLET

Modèle : INSTMCOTR

# Changements climatiques

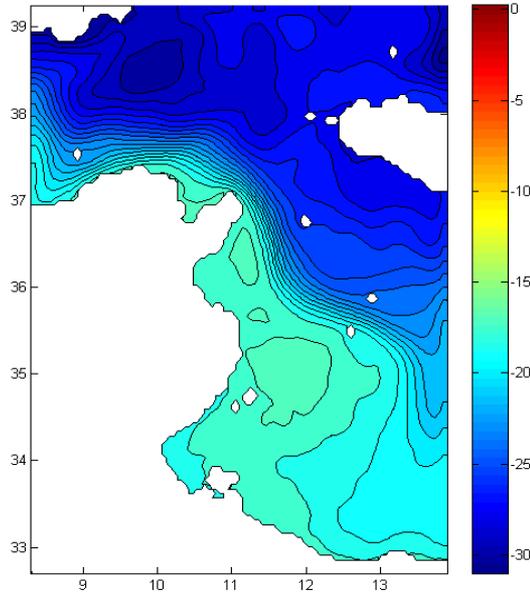
## NIVEAU DE LA MER

1960..

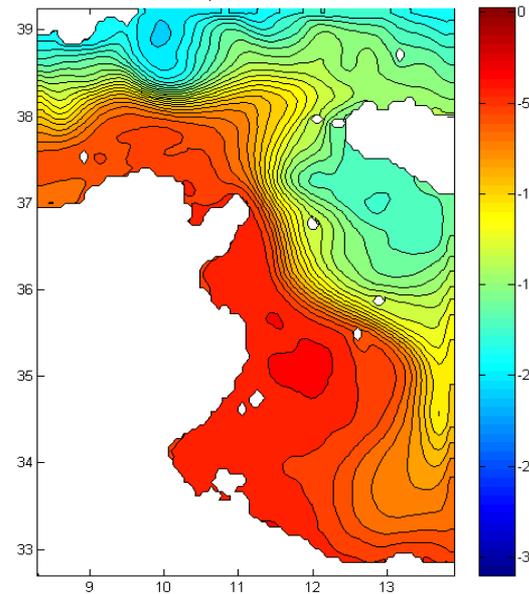
1990..

2050..

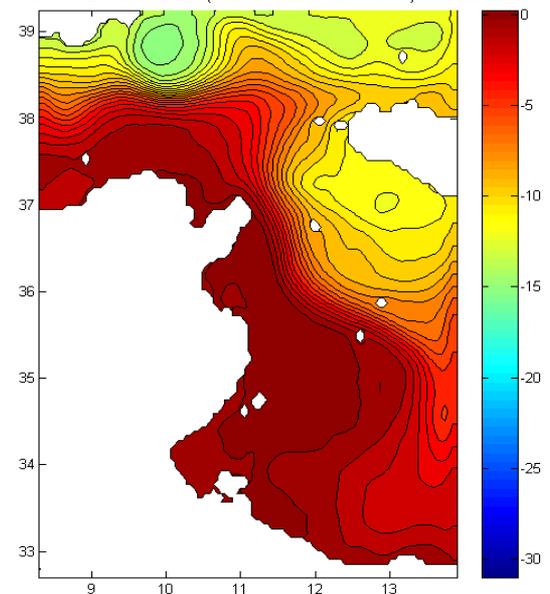
INSTMCOTR : MEAN SEA LEVEL (rescaled to IPCC SL in the Atl.) 1863/1869 cm



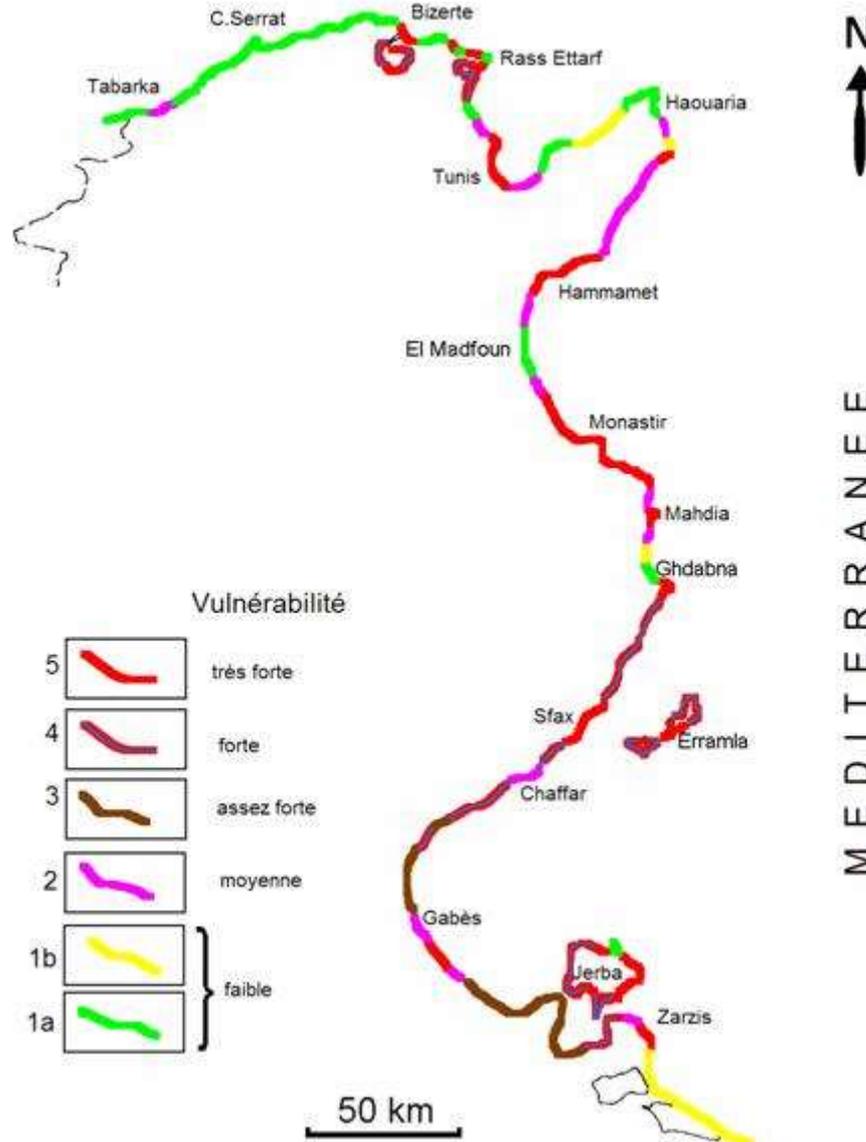
INSTMCOTR : MEAN SEA LEVEL (rescaled to IPCC SL in the Atl.) 1993/2000 cm



INSTMCOTR : MEAN SEA LEVEL (rescaled to IPCC SL in the Atl.) 2050/2059 cm



# Vulnérabilité

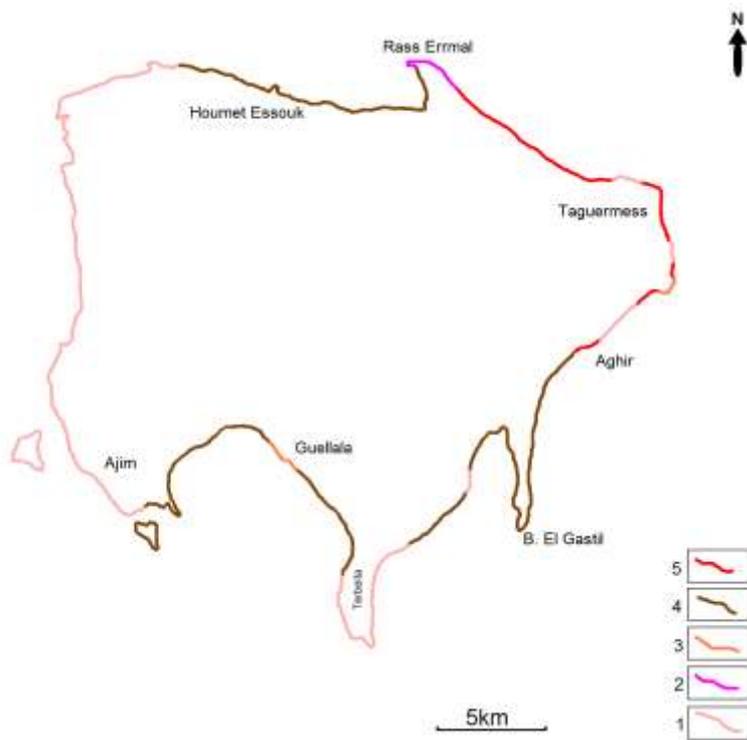


sebkhas, chotts , marais

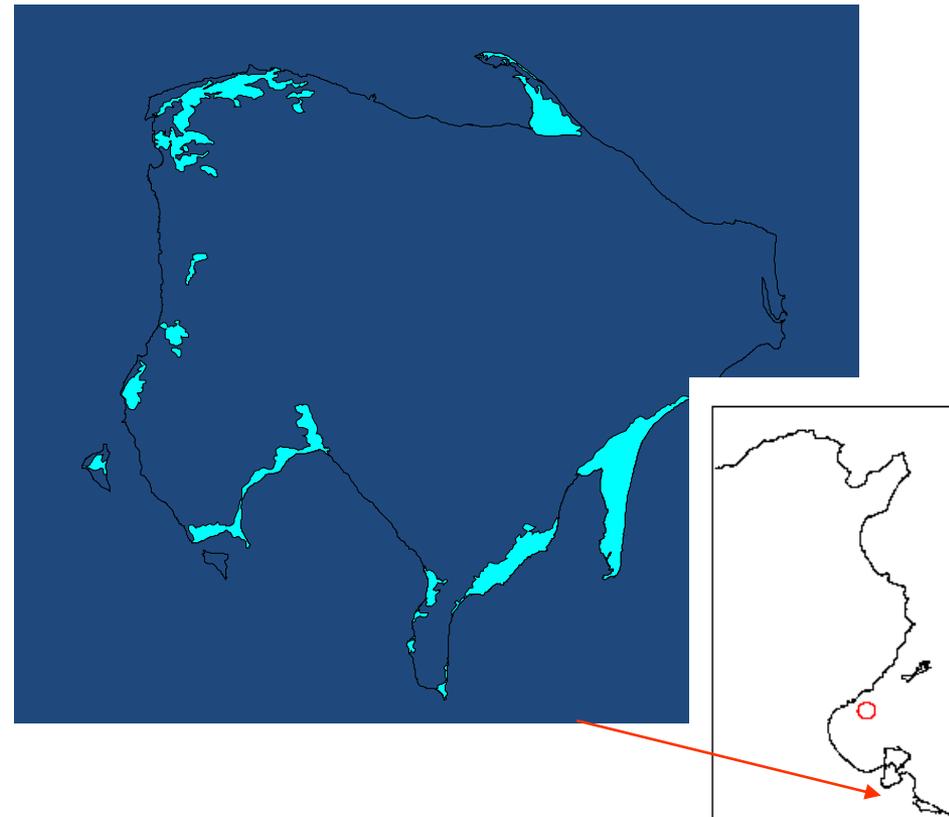
Vulnérabilité totale

# Jerba (Golfe de Gabès)

## Vulnerabilité



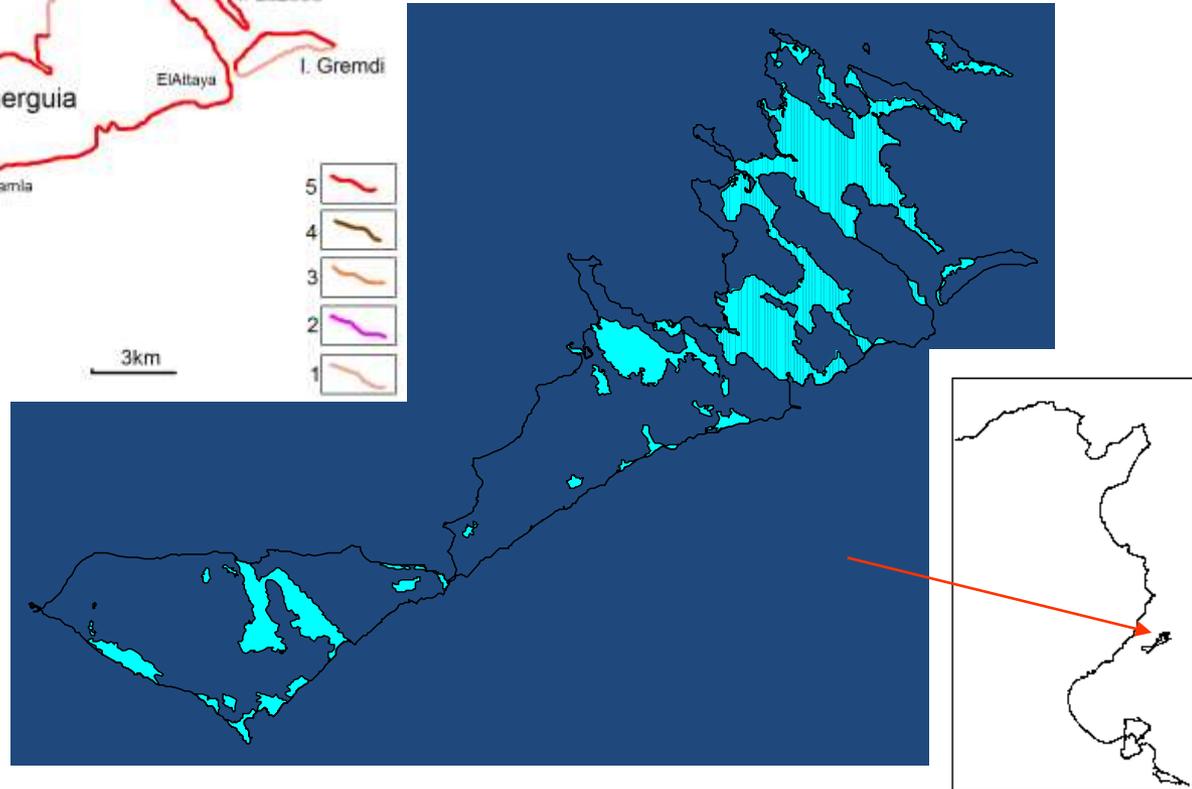
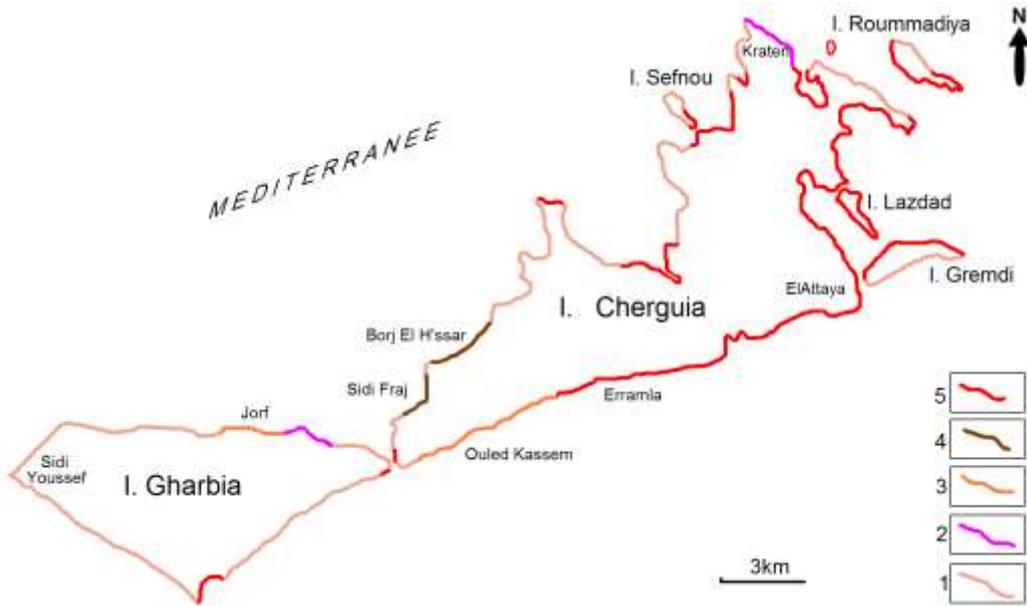
## Terres basses



# Vulnérabilité

Kerkena (Golfe de Gabès)

Low lands



Exemple d'une érosion sévère : Kerkena (Golfe de Gabès)

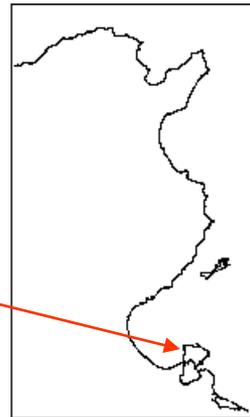


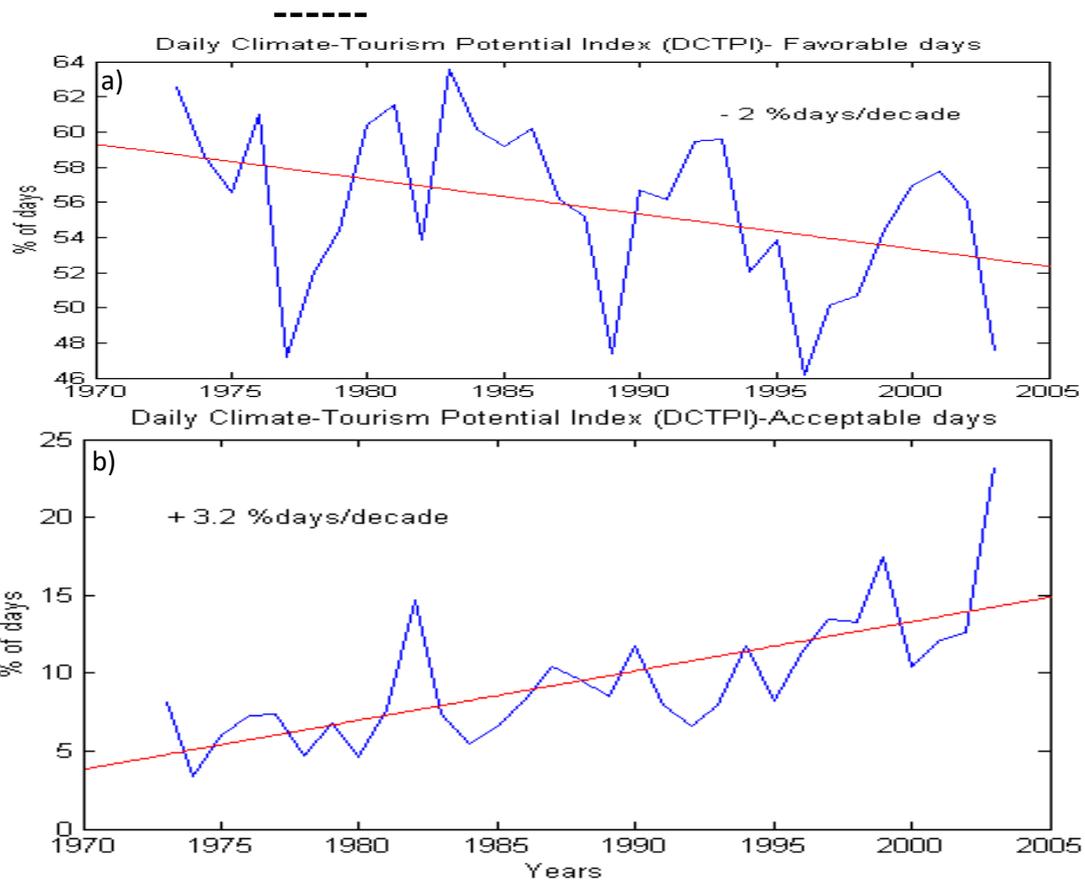
# Jerba (Golfe de Gabès)

juillet 1992



août 2001



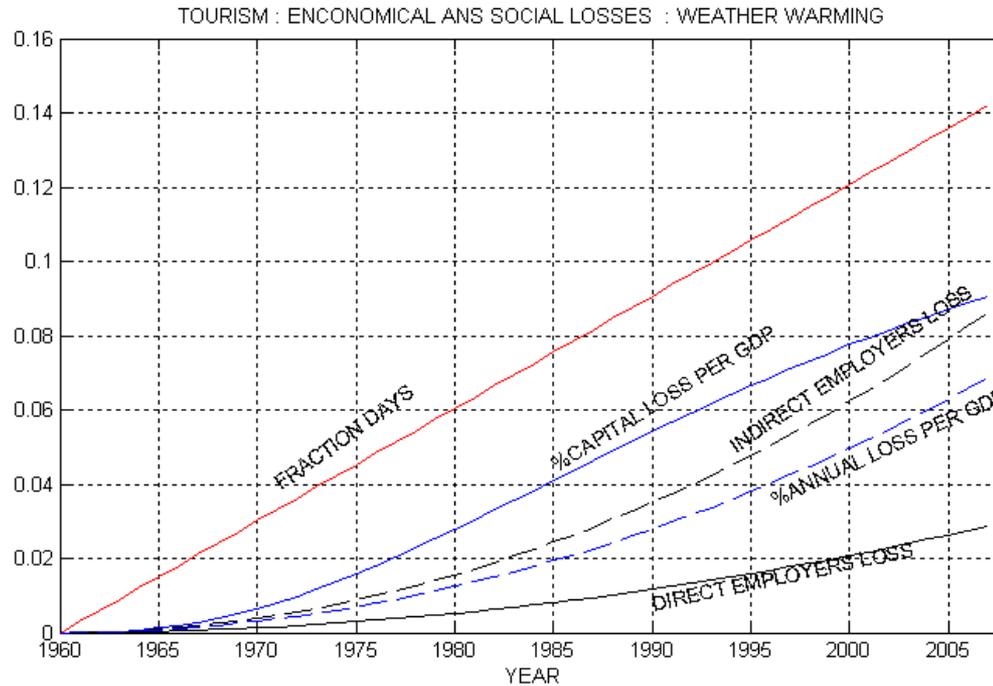


Favorable

Acceptable

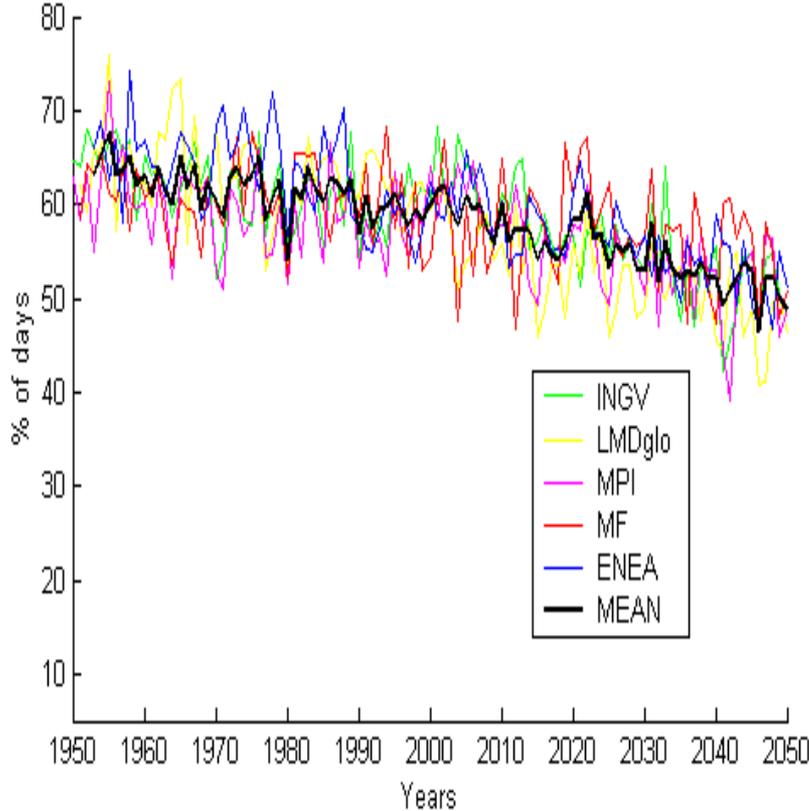
Indice du Potentiel Climat-Tourisme Journalier pour Djerba

# Réchauffement de l'air

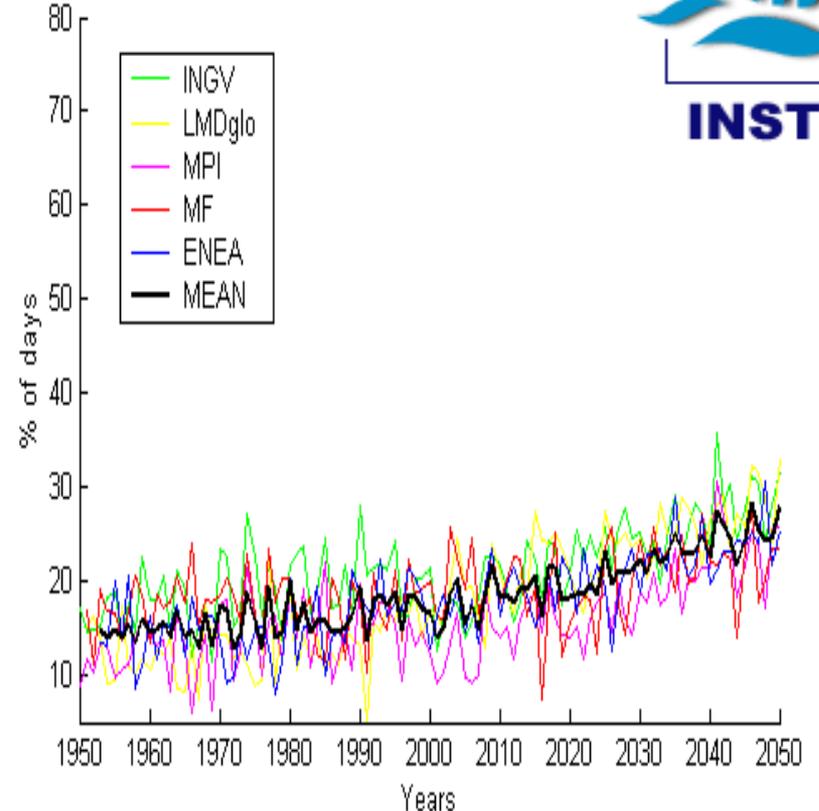


Impacts socio-économiques des jours devenant “acceptable” dans la zone touristique Djerba-Zarzis.  
Pourcentages annuels par rapport à 2007 GDP.  
Emploies directs et indirects x 100,000.

DCTPI - Favorable days - All Models (1950-2050)

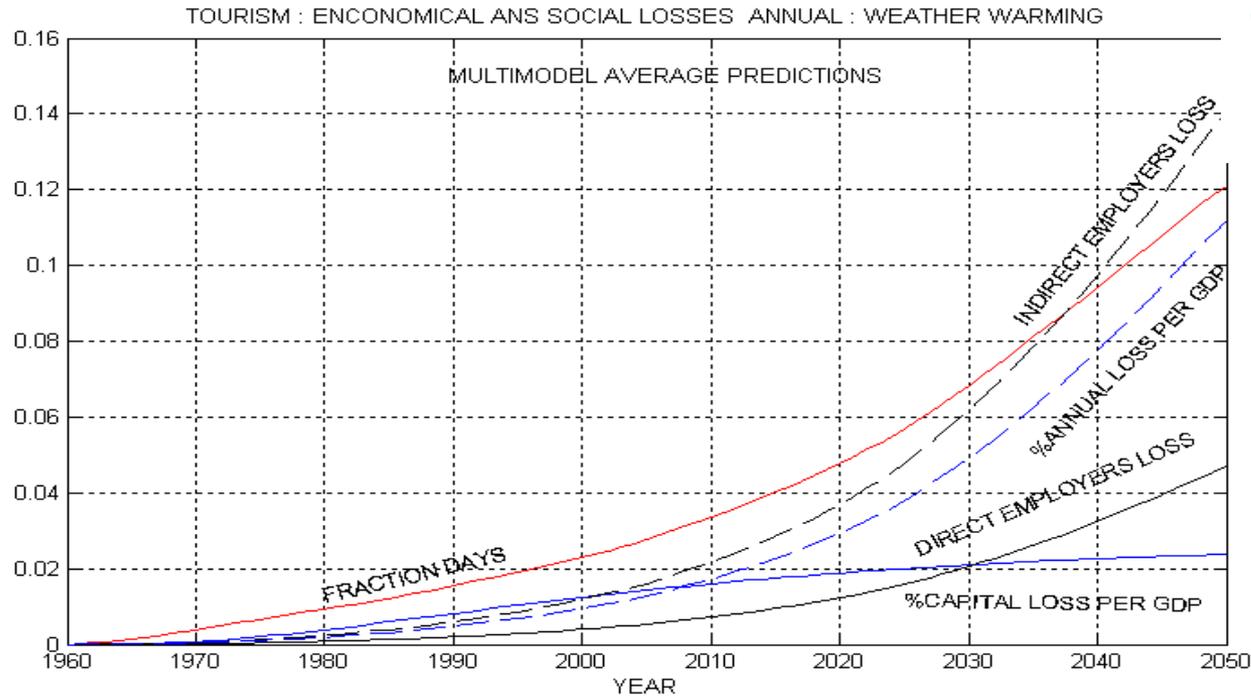


DCTPI - Acceptable days - All Models (1950-2050)



## Evolution du Potentiel Climat-Tourisme Journalier pour Djerba

(1950-2050) pour 'jours favorables' et 'jours acceptables'



Impacts socio-économiques des jours devenant “acceptable” dans la zone touristique Djerba-Zarzis pour 1950-2050  
 Pourcentages annuels par rapport à 2007 GDP.  
 Emplois directs et indirects x 100,000.