



ΠΟΛΥΤΕΧΝΕΙΟ ΚΡΗΤΗΣ  
TECHNICAL UNIVERSITY OF CRETE



CLIMPACT  
ΕΘΝΙΚΟ ΙΝΣΤΙΤΟΥΤΟ ΓΙΑ ΤΗΝ ΚΑΤΑΣΤΡΟΦΗ ΣΦΑΙΡΑ

# Πανελλήνια Ημέρα Χημείας, Χανιά, 12 Μαρτίου 2022

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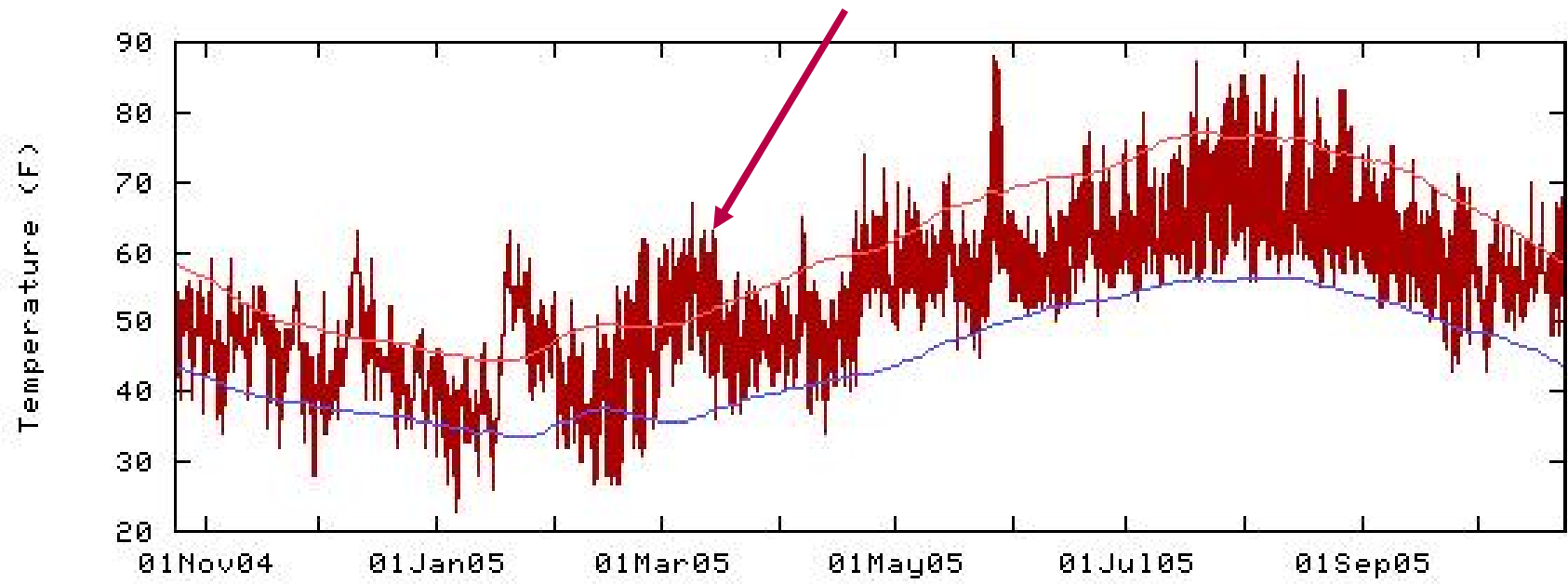
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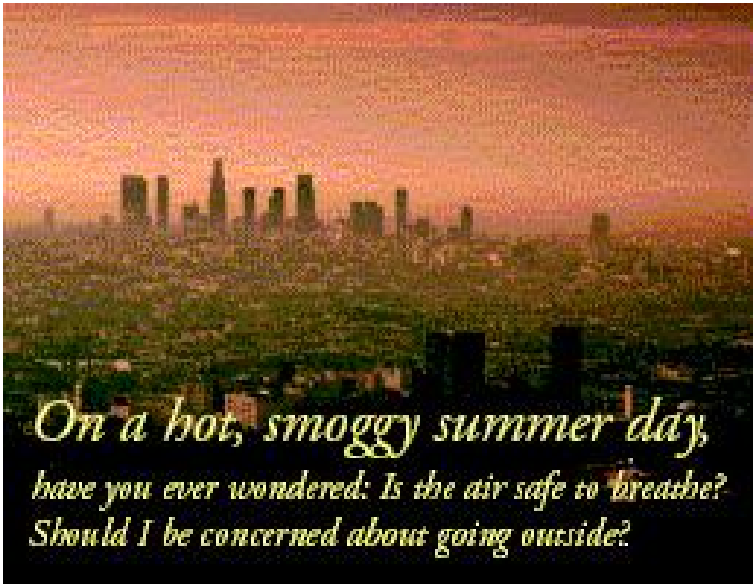
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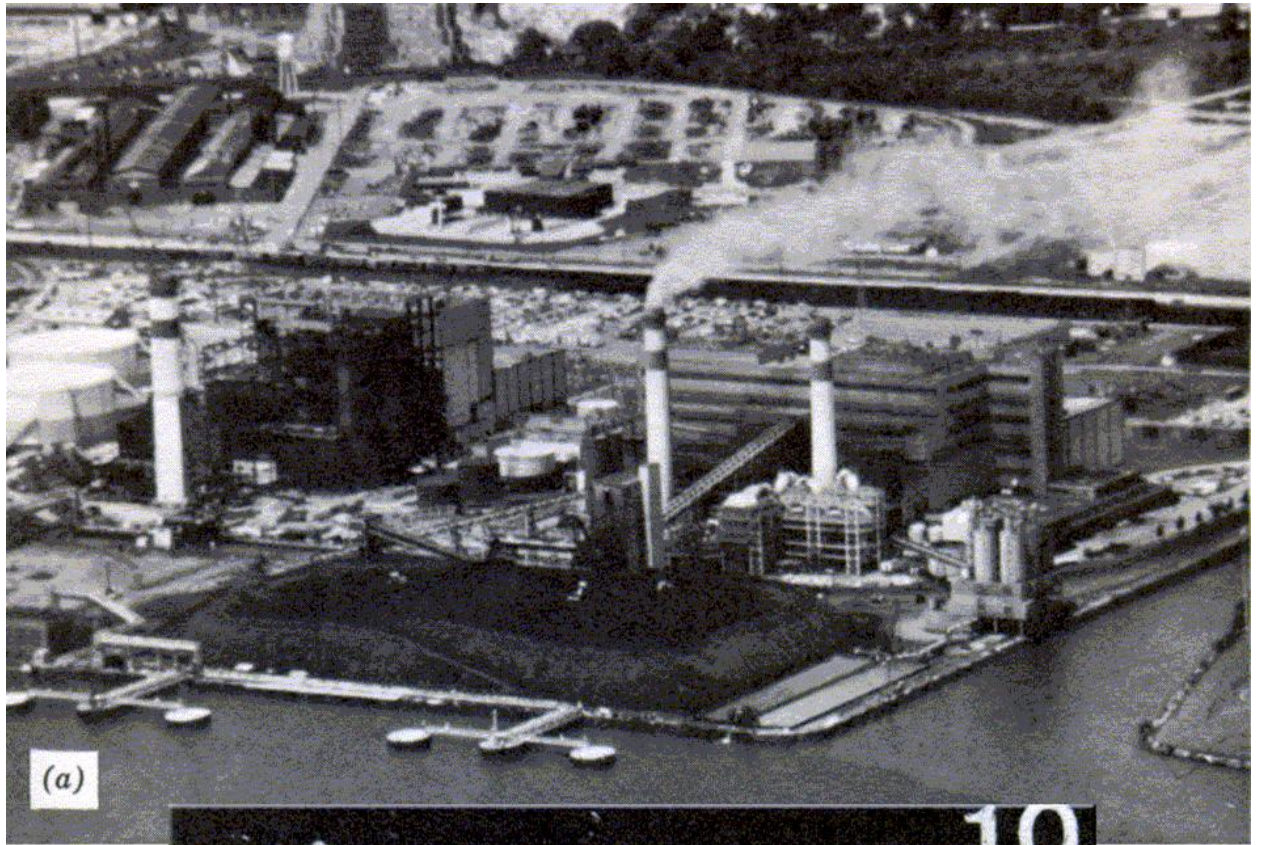
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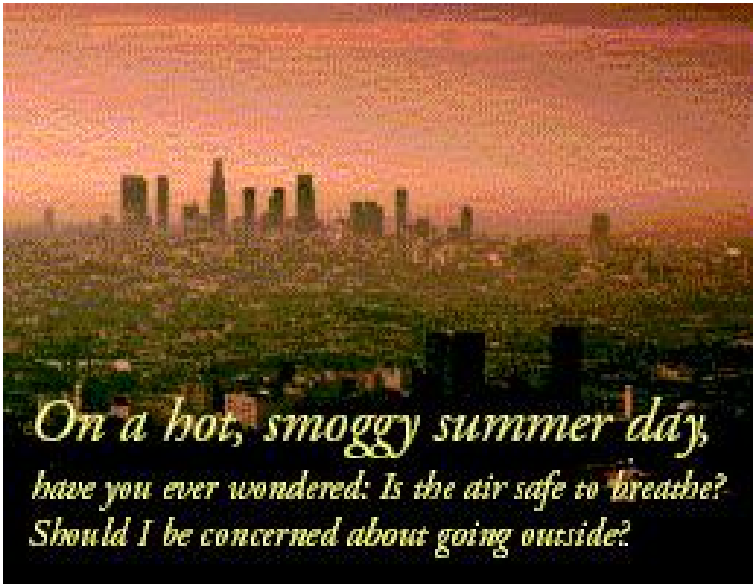






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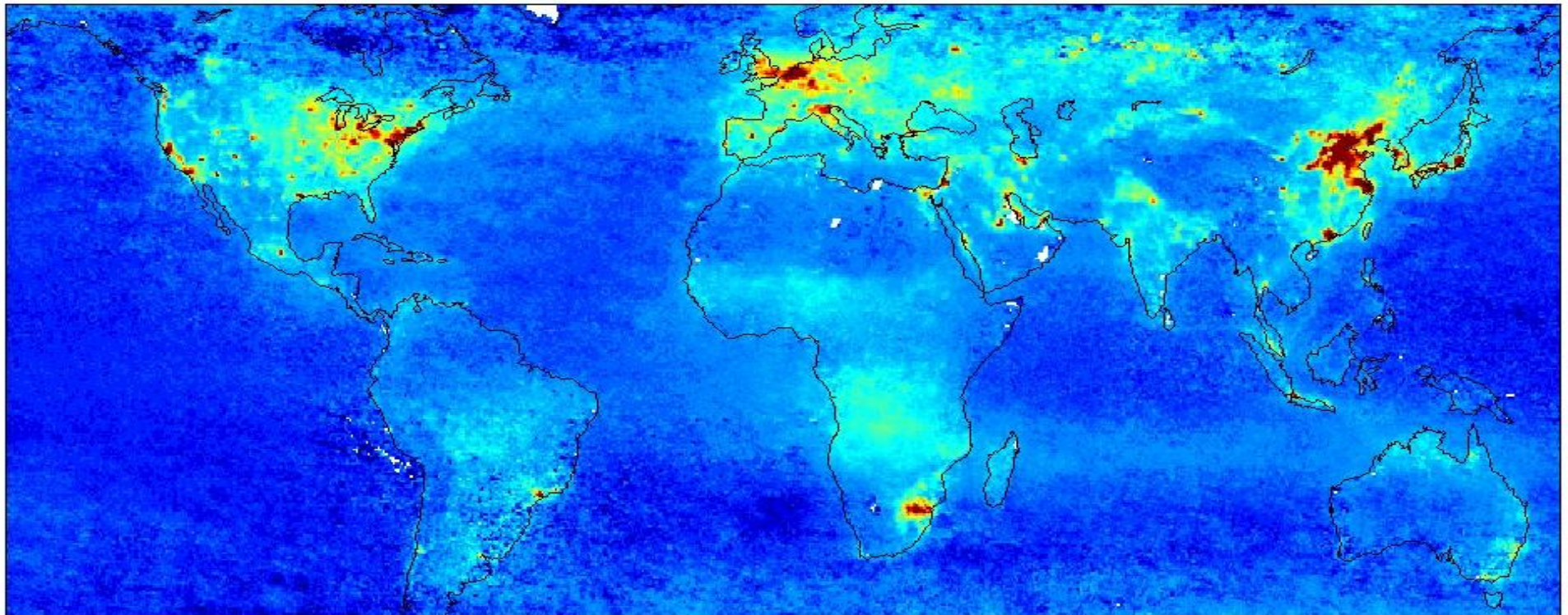
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UV IR

NO<sub>2</sub>

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SCIAMACHY



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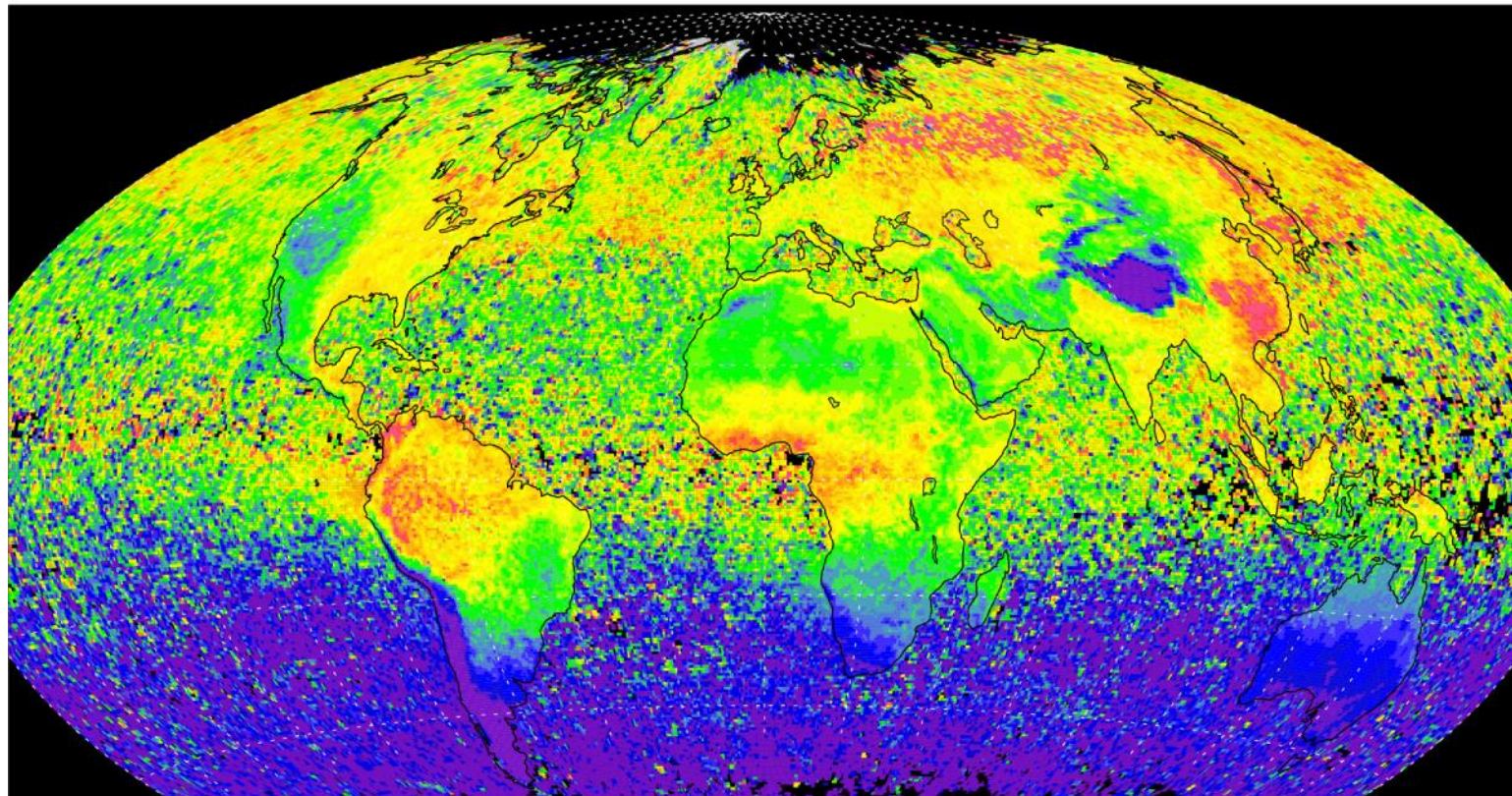
SCIAMACHY Tropospheric NO<sub>2</sub> (10<sup>15</sup> molec cm<sup>-2</sup>)



$\mu$  (SCIAMACHY)

$\mu$   $\mu$   $\mu$  2.265-2.280  $\mu\text{m}$

Methane SCIAMACHY/ENVISAT 2003-2005



CH<sub>4</sub> column-averaged mole fraction [ppb]

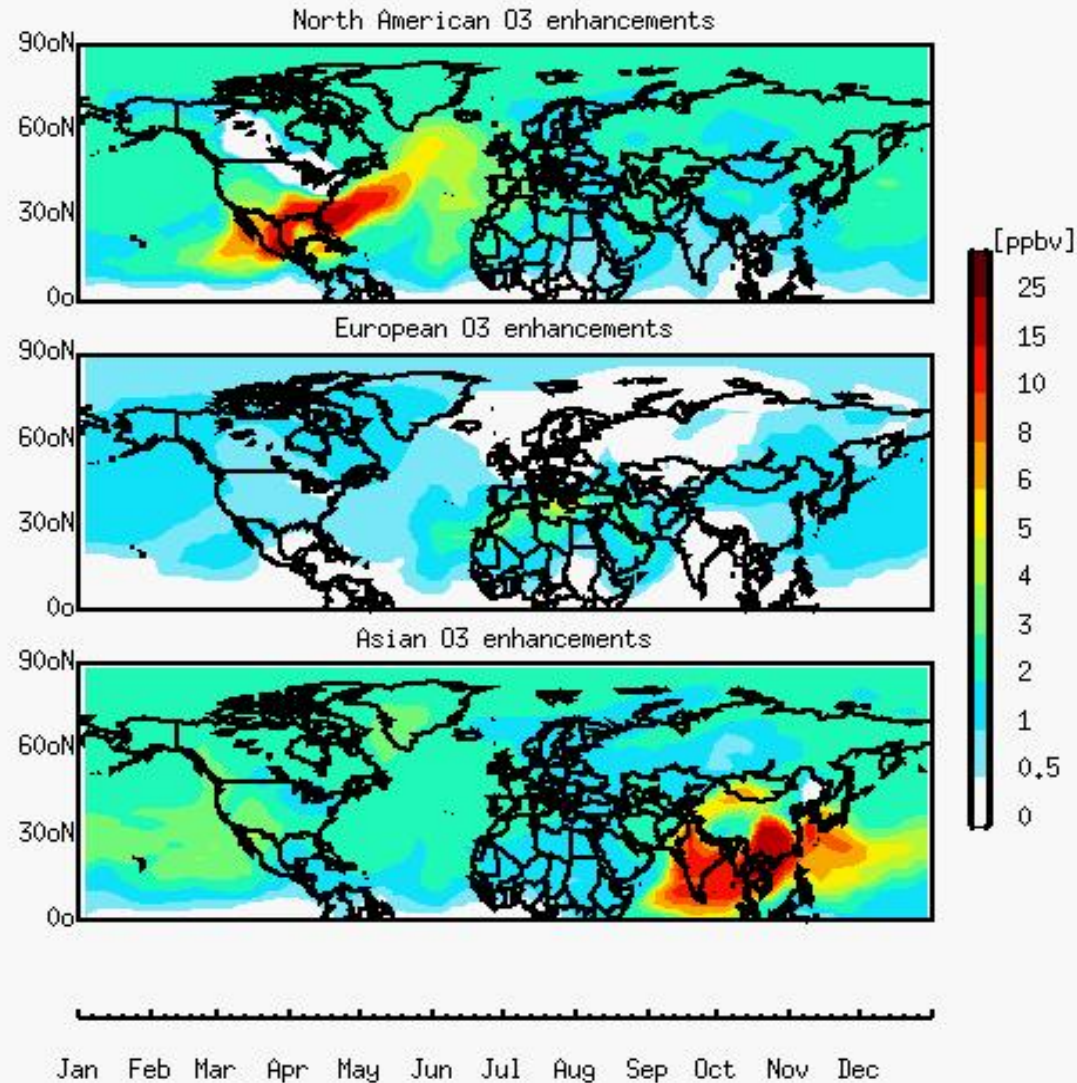


## GEOS-Chem αποτελέσματα για το 2006

Το επιφανειακό  $O_3$  αυξάνεται από ανθρωπογενείς εκπομπές από τη Βόρεια Αμερική

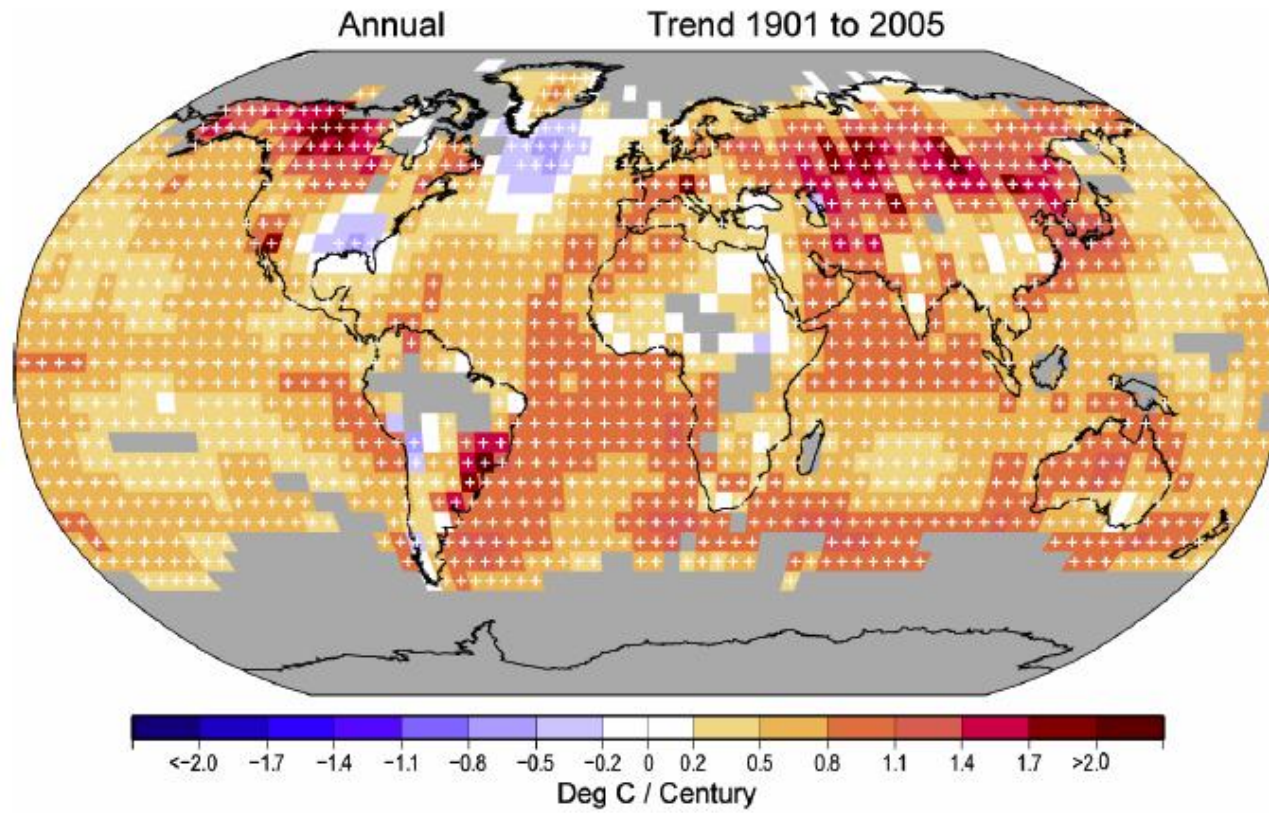
Από ανθρωπογενείς εκπομπές από την Ευρώπη

Από ανθρωπογενείς εκπομπές από την Ασία





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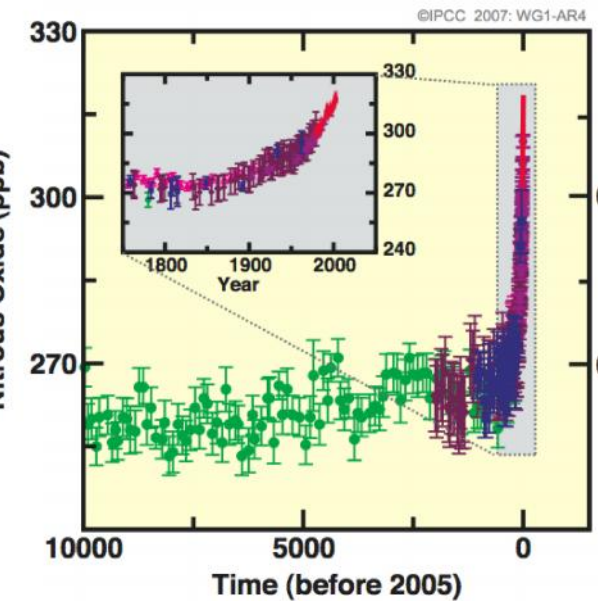
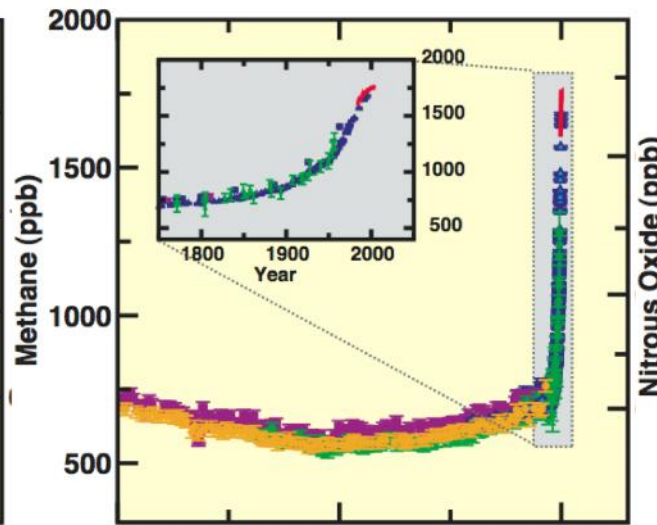
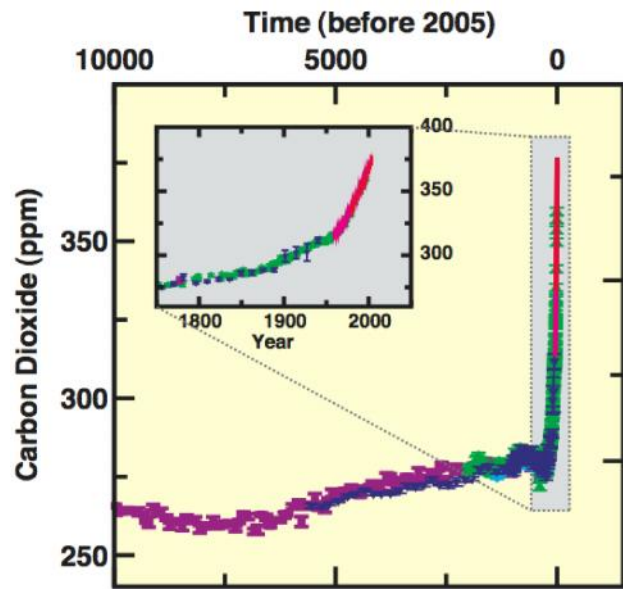
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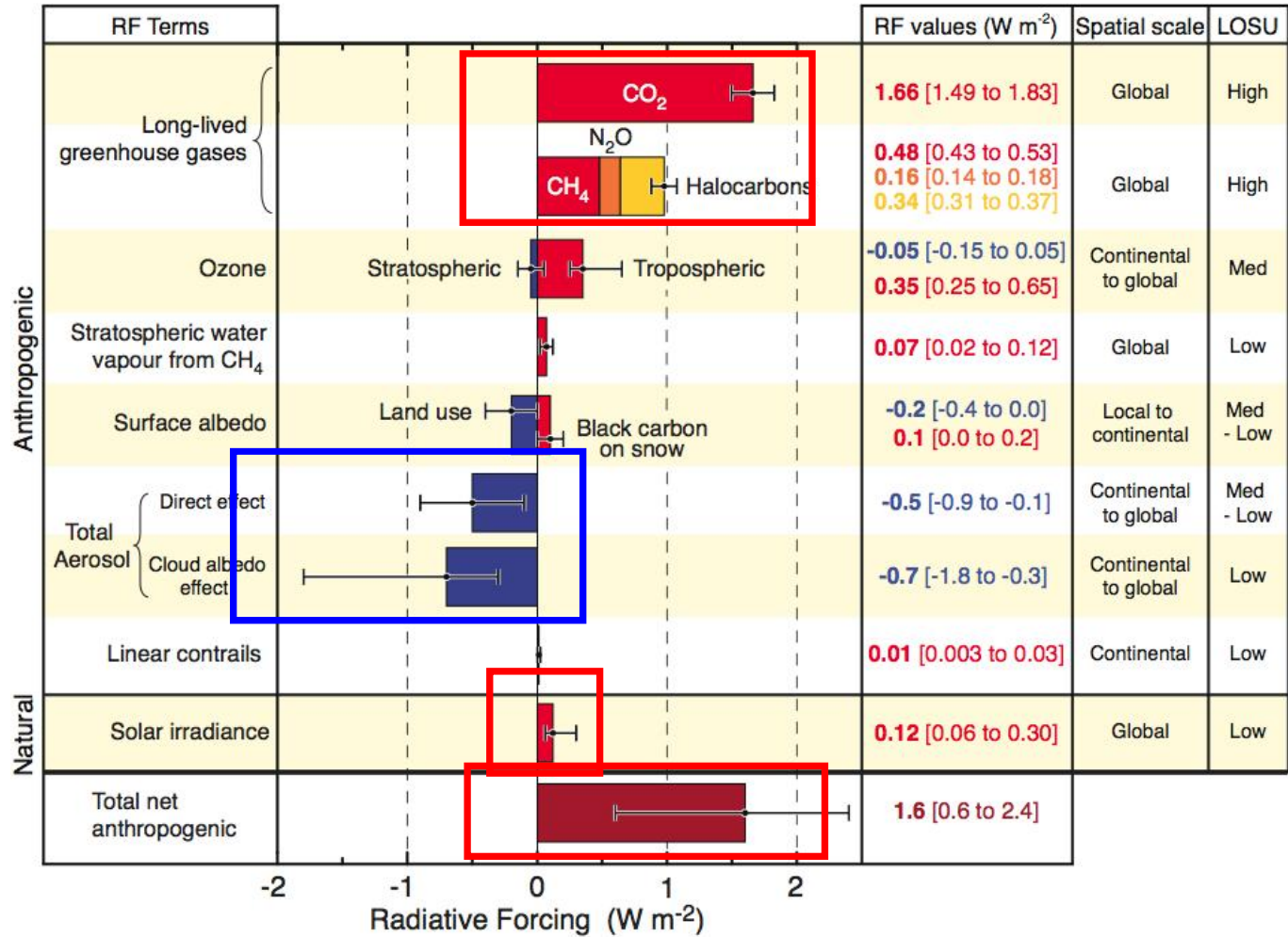
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# Radiative Forcing Components



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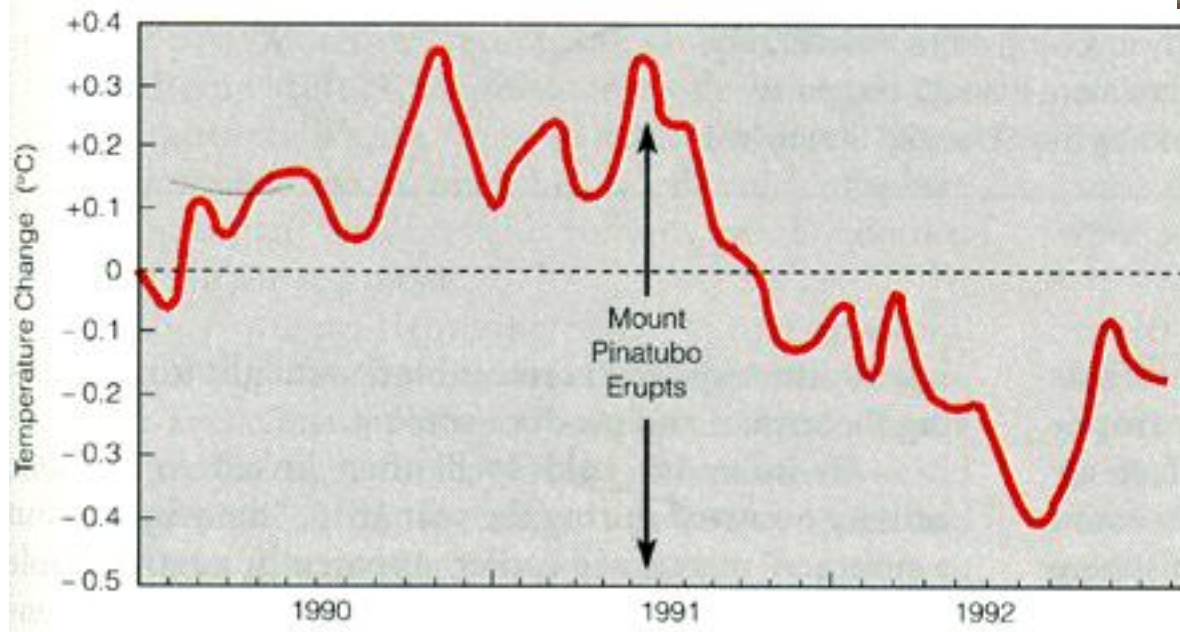
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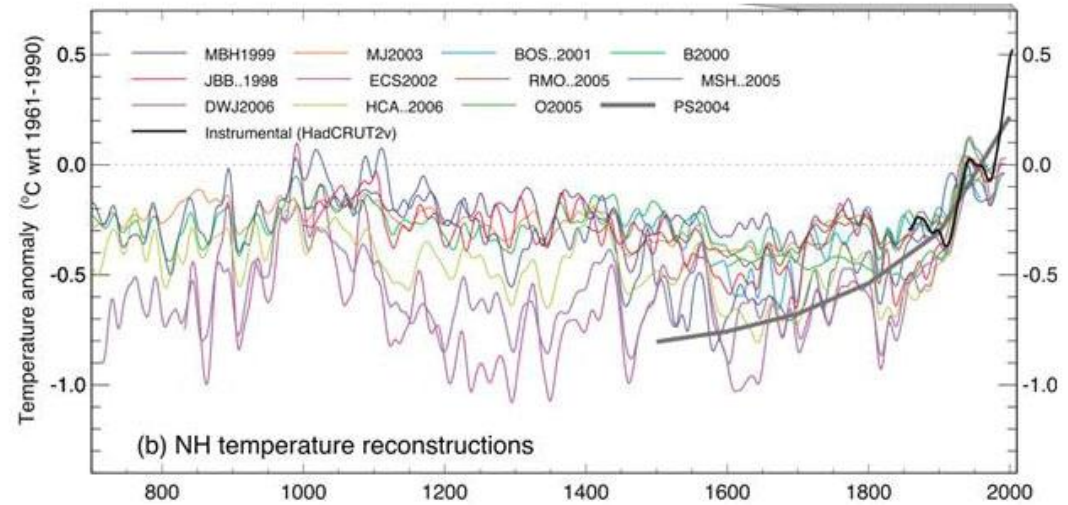


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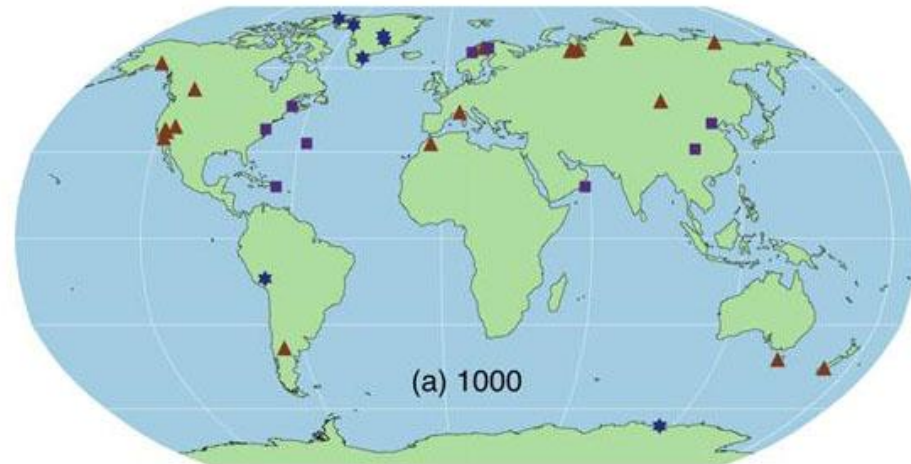
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# Northern Hemisphere Temperature Reconstructions



Proxy Record Locations: 1000 AD



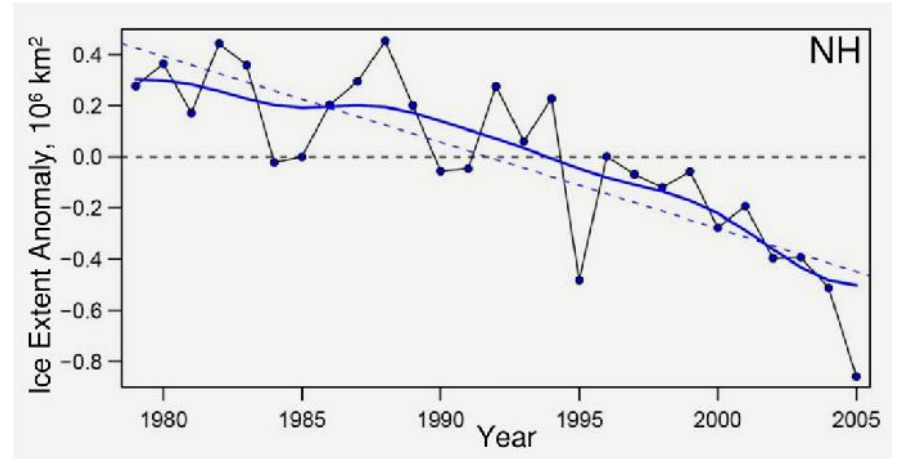
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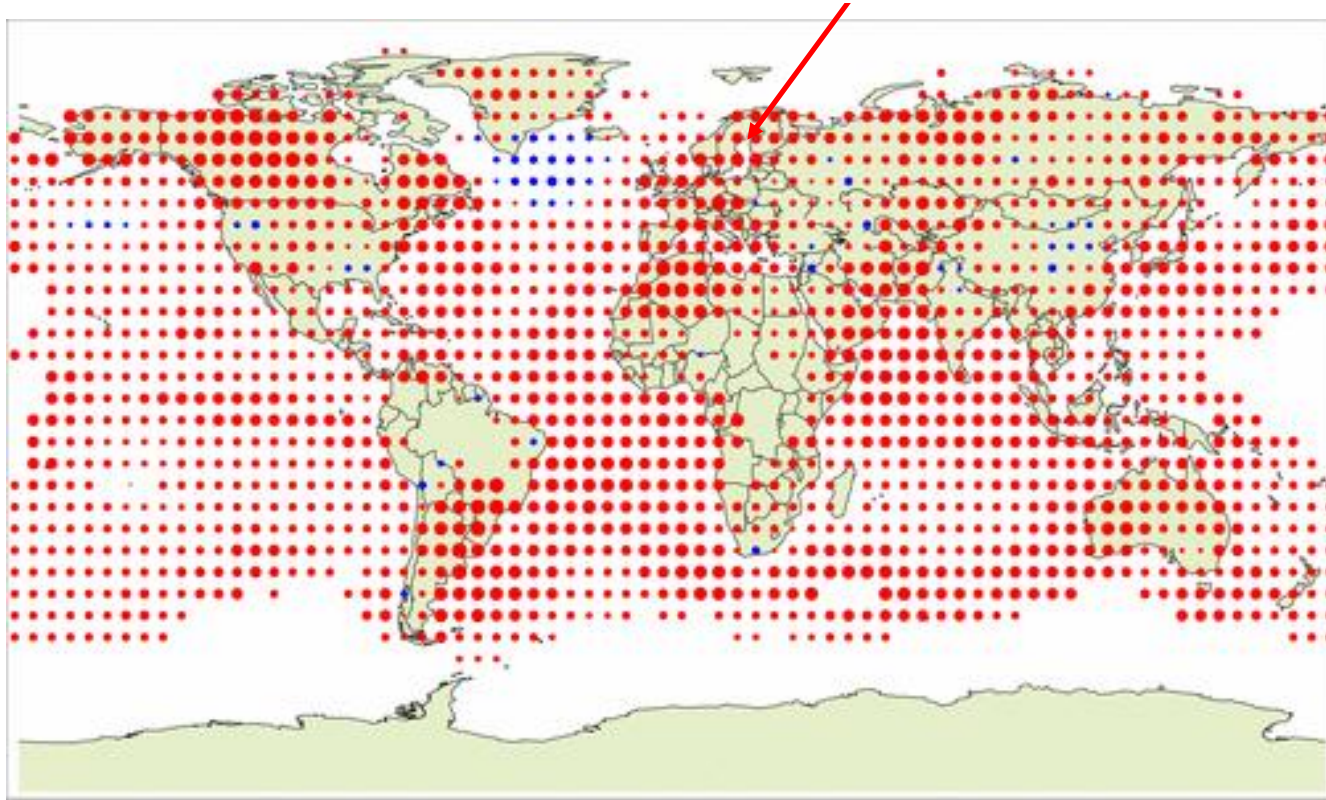
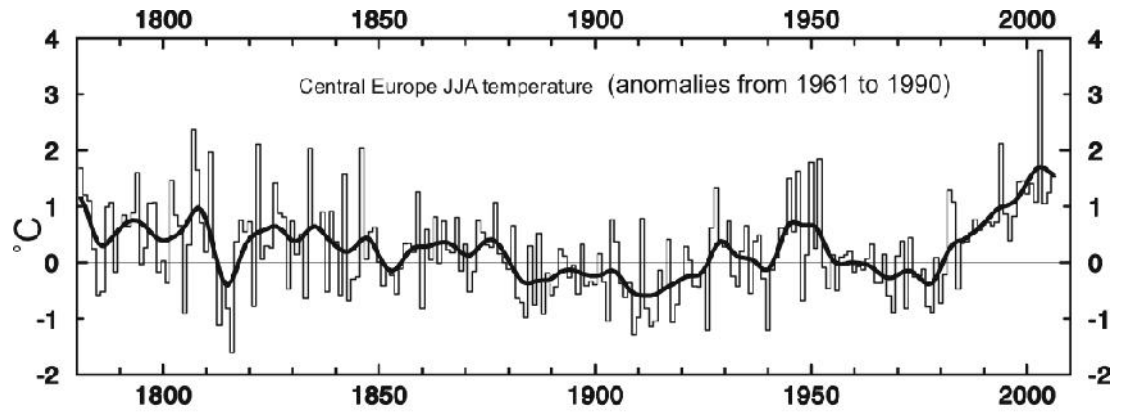
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<http://www.ncdc.noaa.gov/gcag/gcag.html>



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A1B “business as usual” (2090-2099) :  
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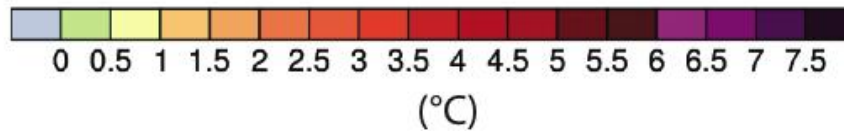
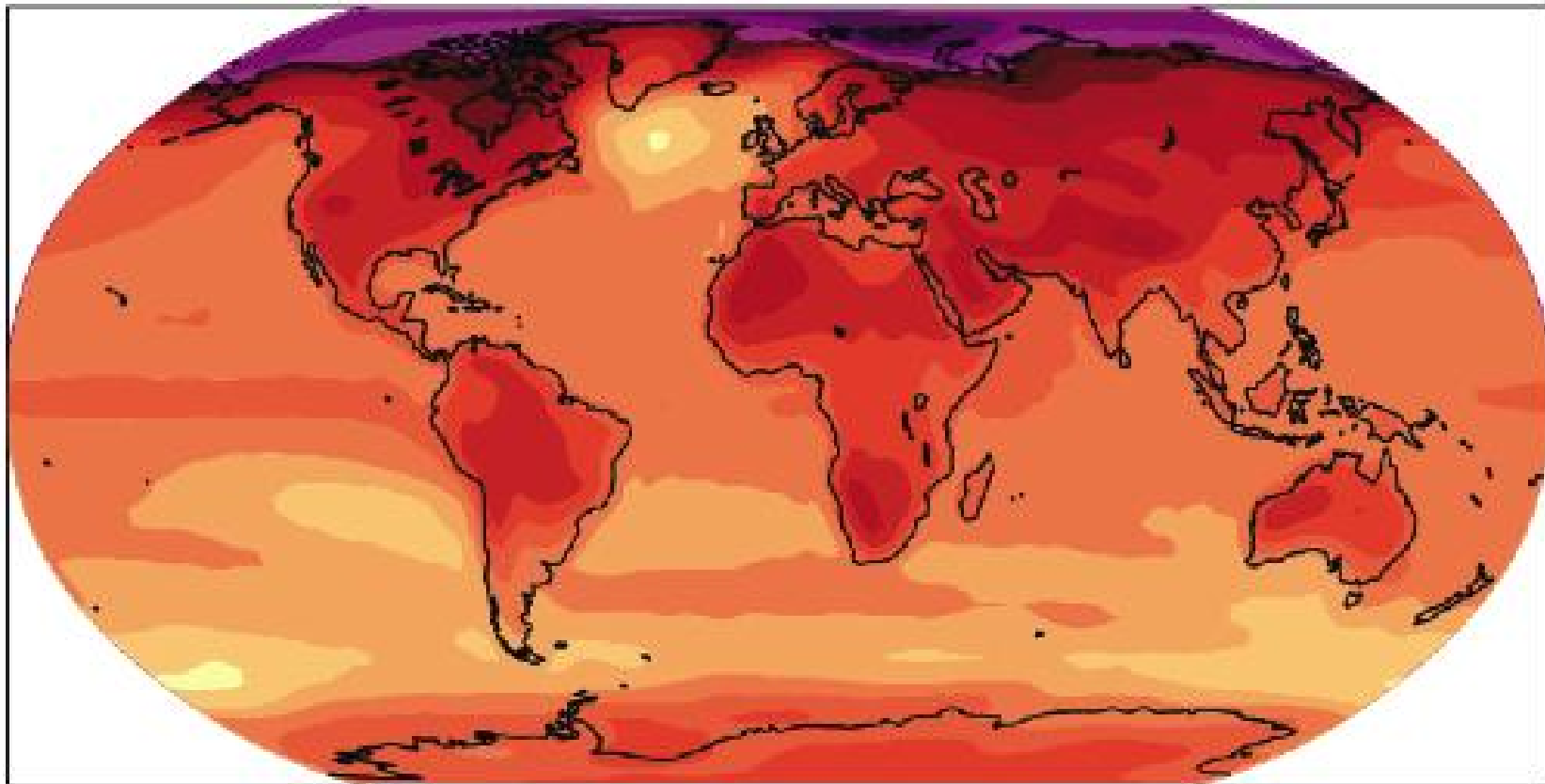
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~3.5°C

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~7°C



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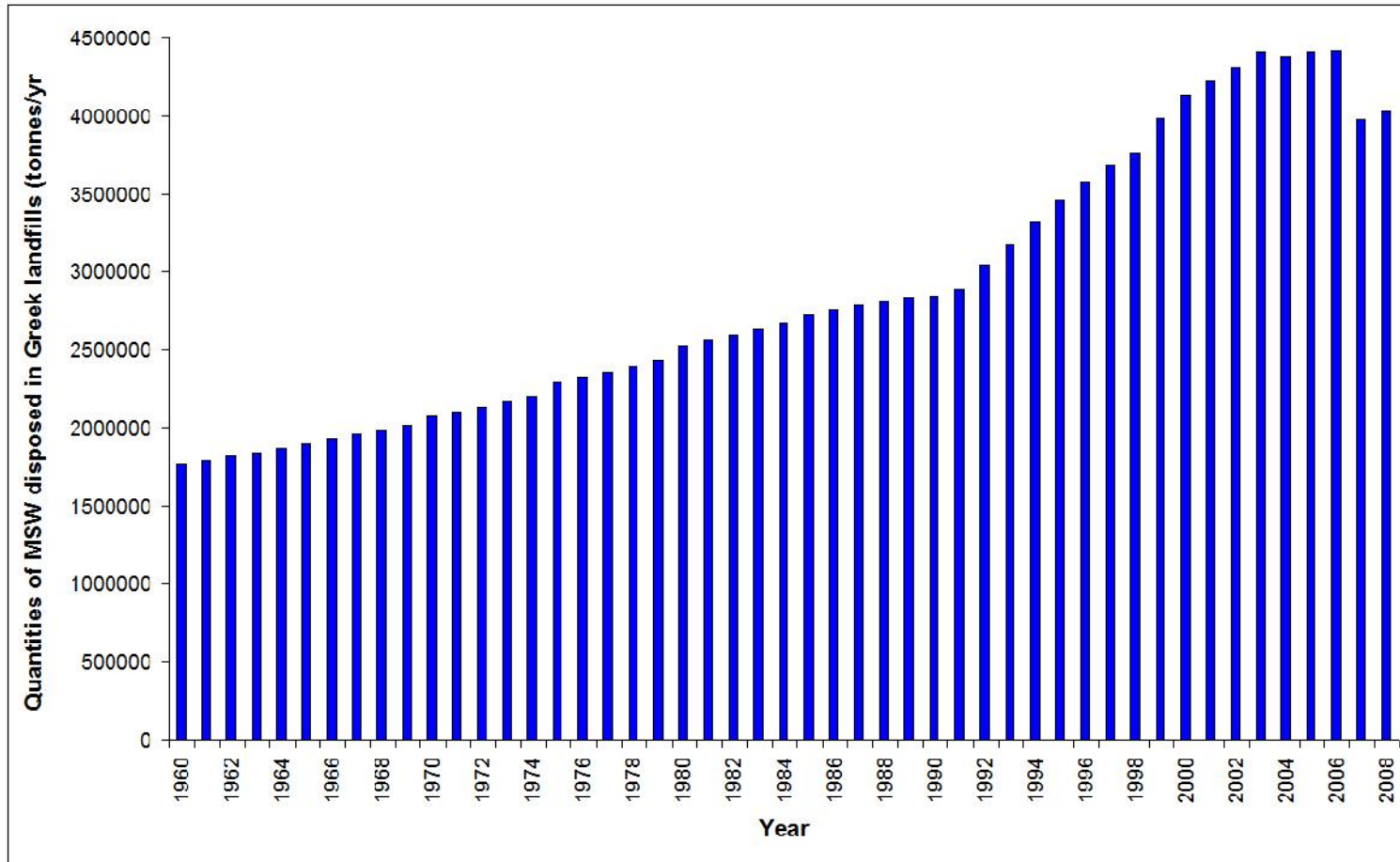
1960 – 2008.

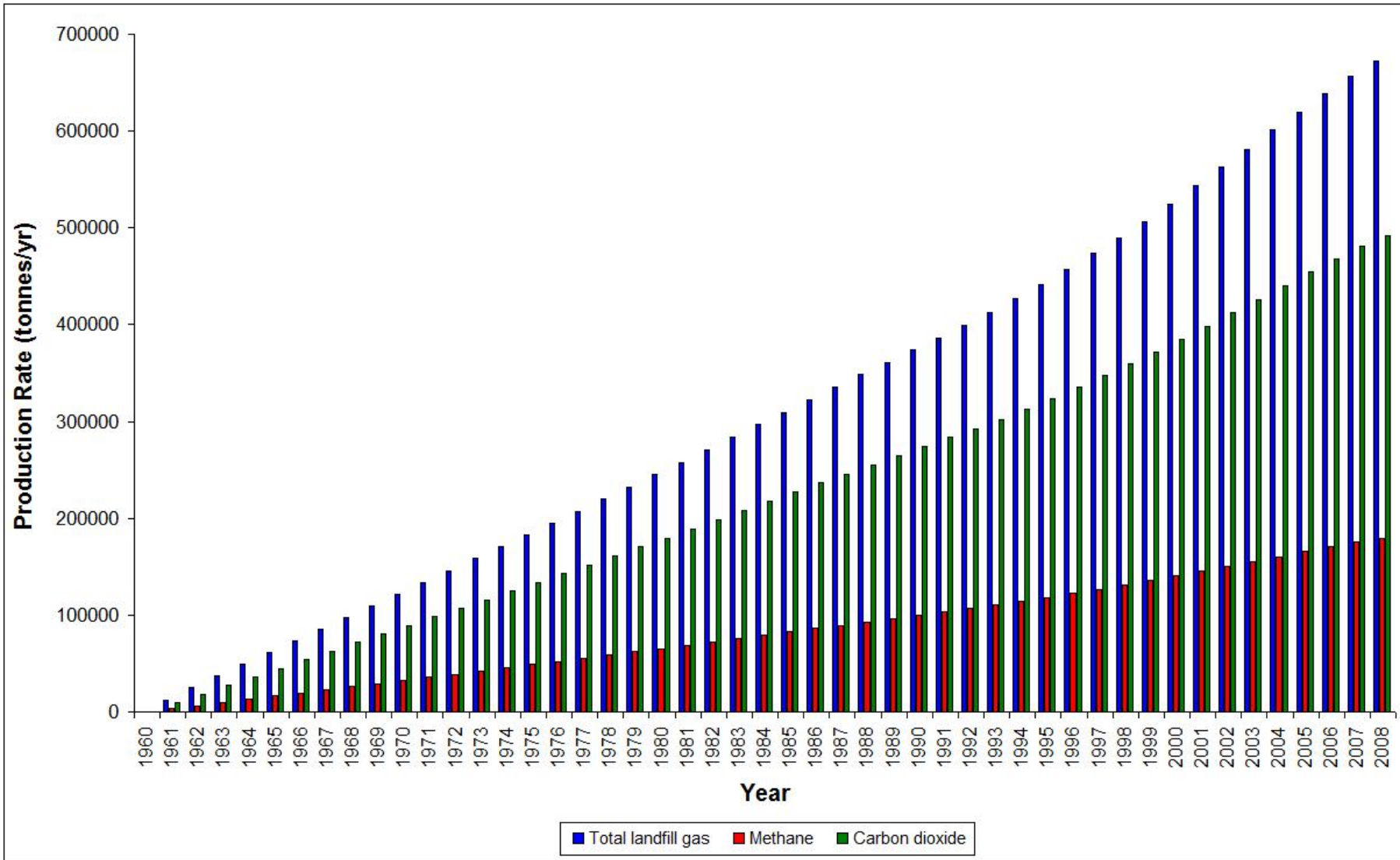
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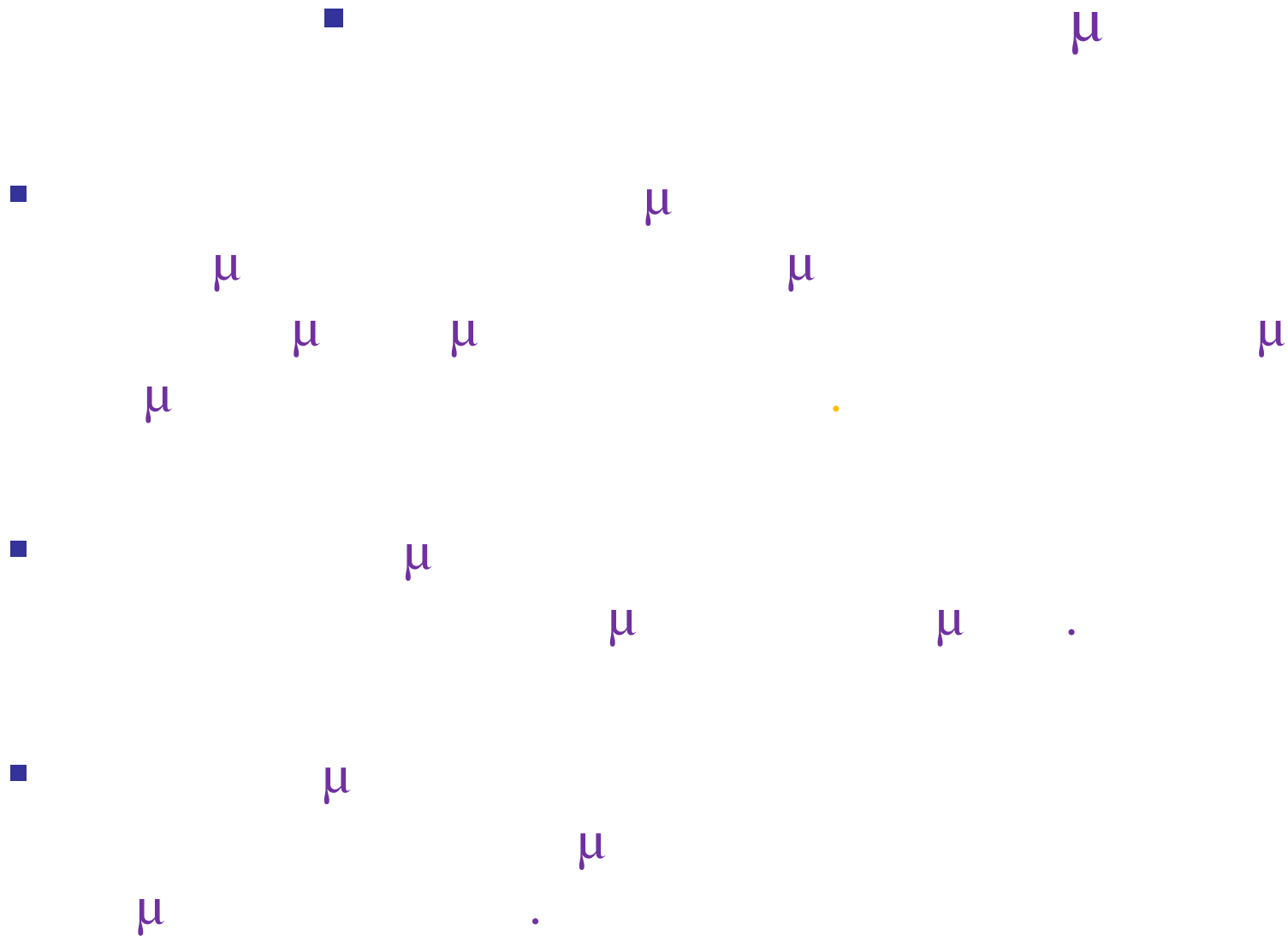
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1960 – 2008.









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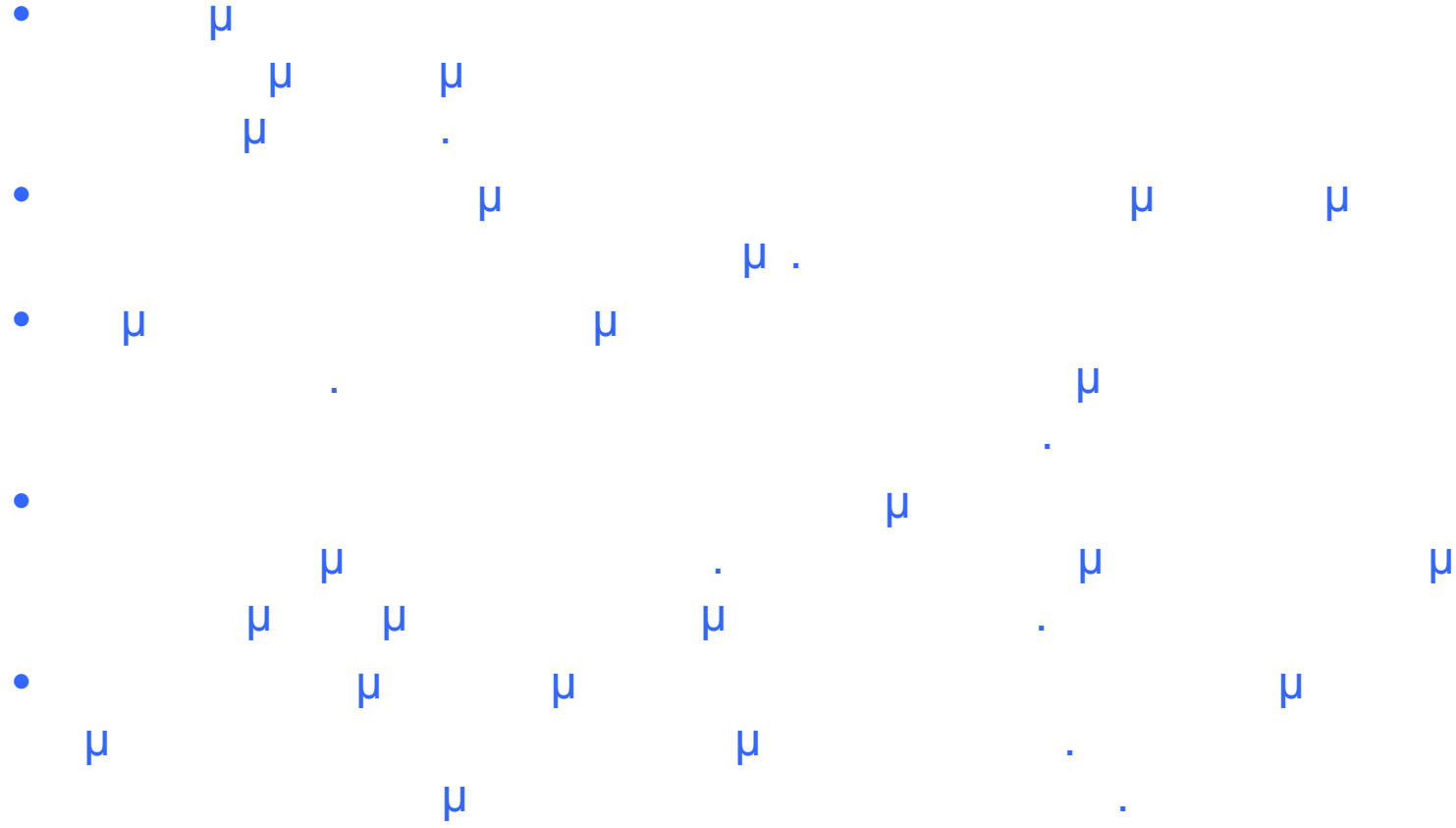
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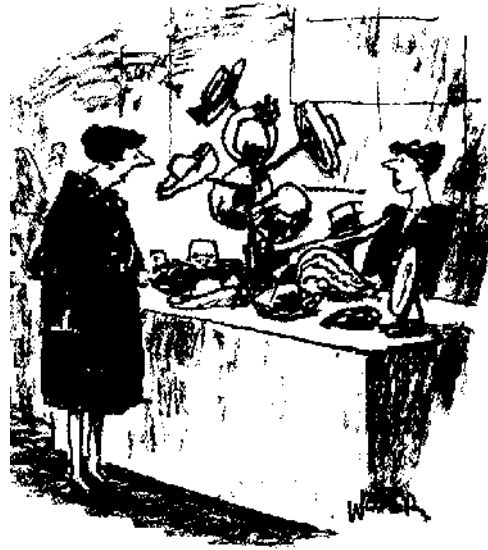
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- T. S. Elliot

