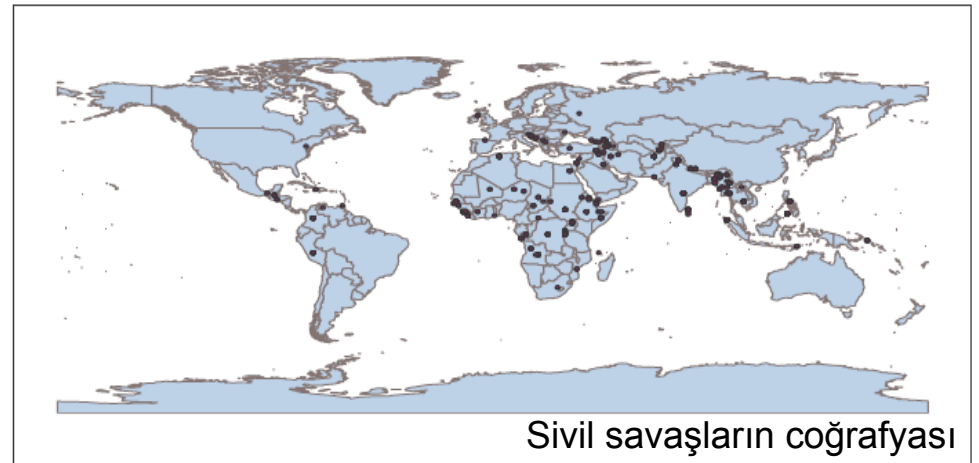
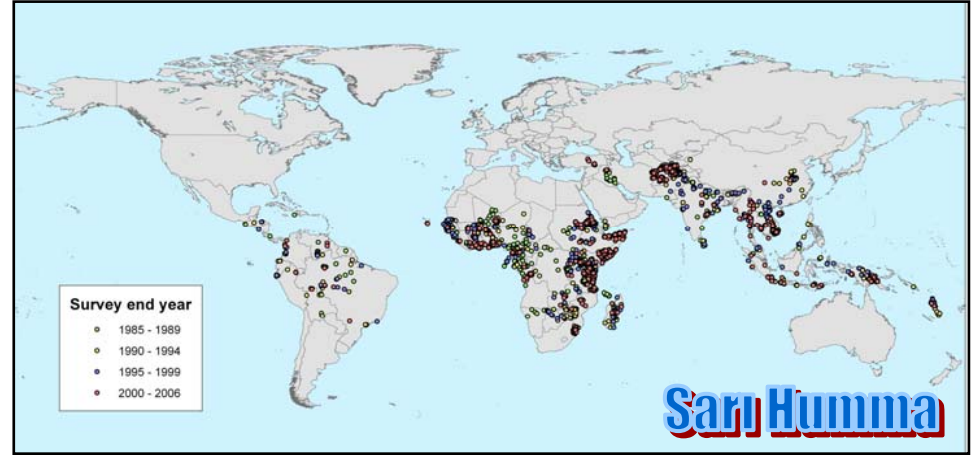
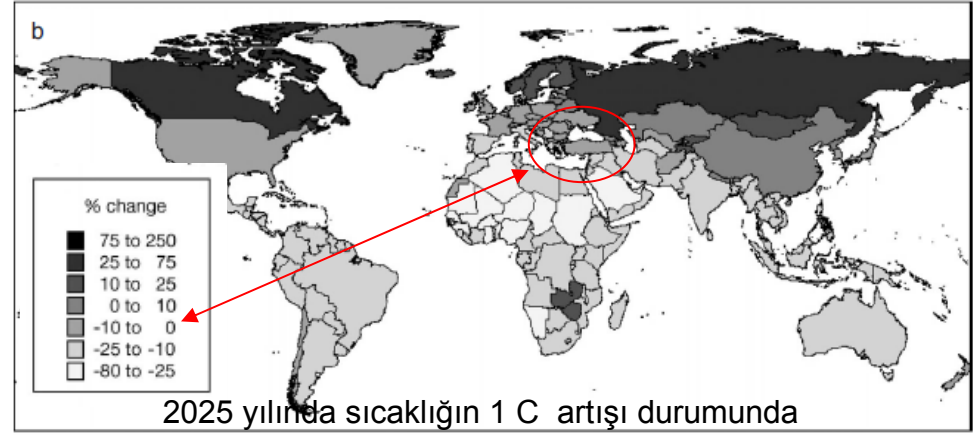


İklim deęiřimi ve EKOLOJİK AÇIDAN sürdürülebilir ormancılık

Dr. Kürřad ÖZKAN
SDU, ORMAN FAK.

Küresel iklim değişimi

Isınma? Soğuma?

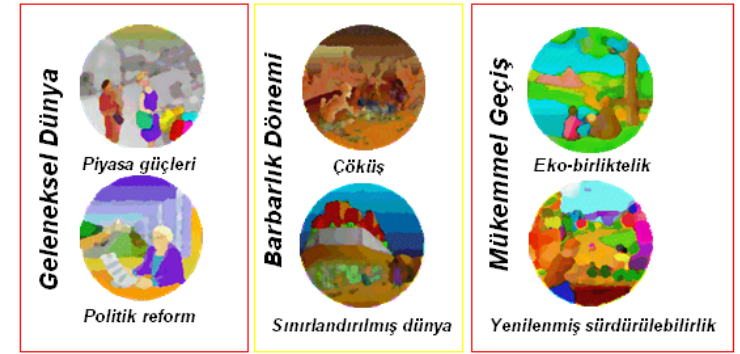


Emilsiyon senaryoları

Millenium Ecosystem Senaryoları

	Küresel	
	Reaktif	Proaktif
Küresel	Küresel Uyum	Temiz Teknoloji
Bölgesel	Güç Egemenliği	Uyarlanabilir Mozaik

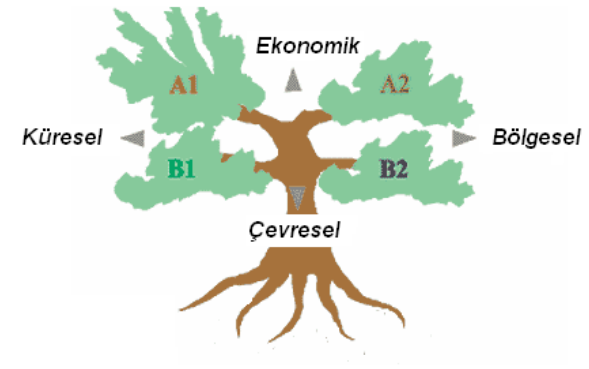
•Küresel Senaryo grubu senaryoları



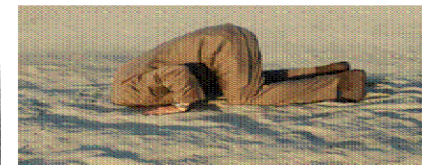
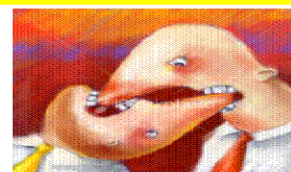
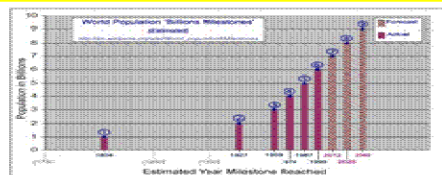
GEO-3 senaryoları

-  **Piyasa önceliği** senaryosu
-  **Güvenlik önceliği** senaryosu
-  **Politik öncelik** senaryosu
-  **Sürdürülebilirlik önceliği** senaryosu

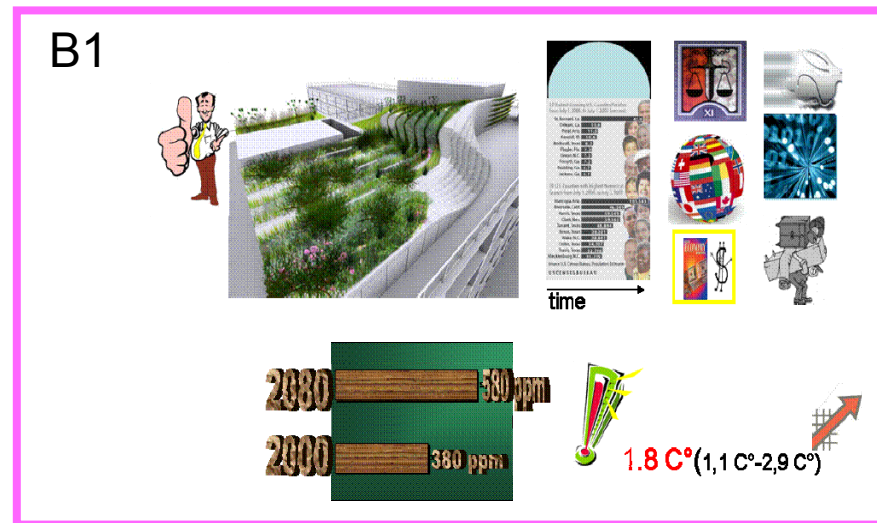
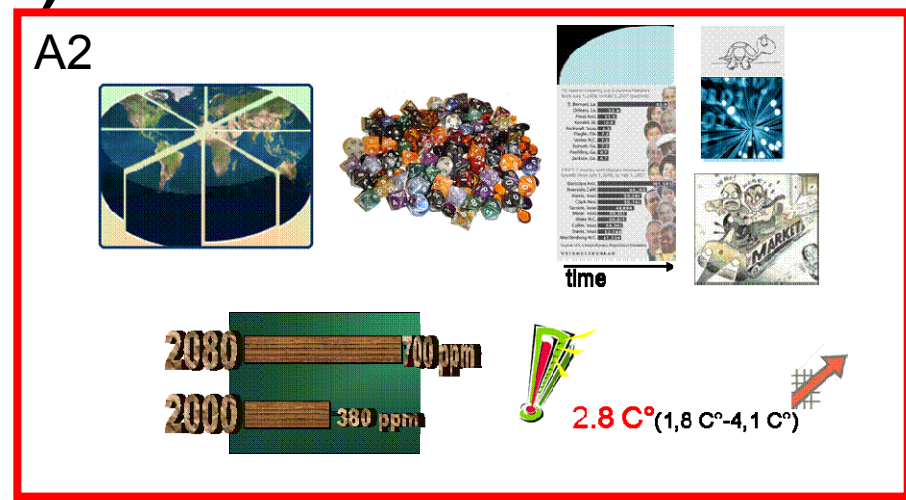
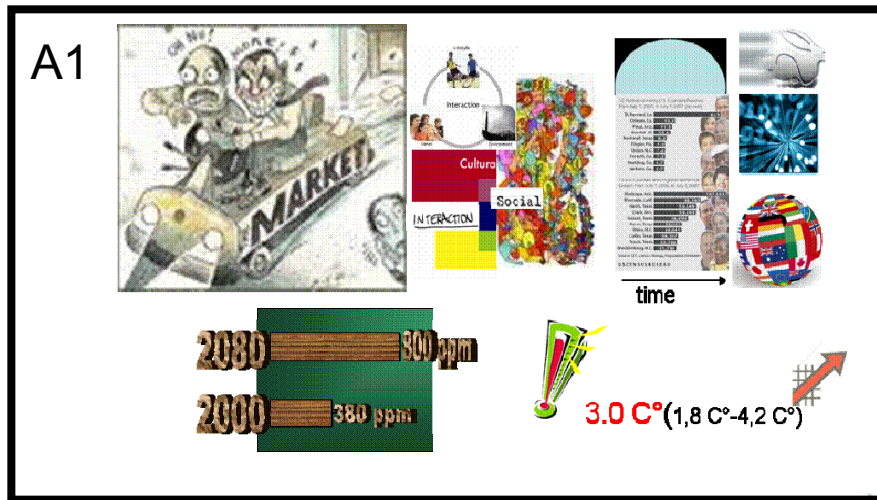
•SRES- IPCC Senaryoları



SRES IPCC aktörleri

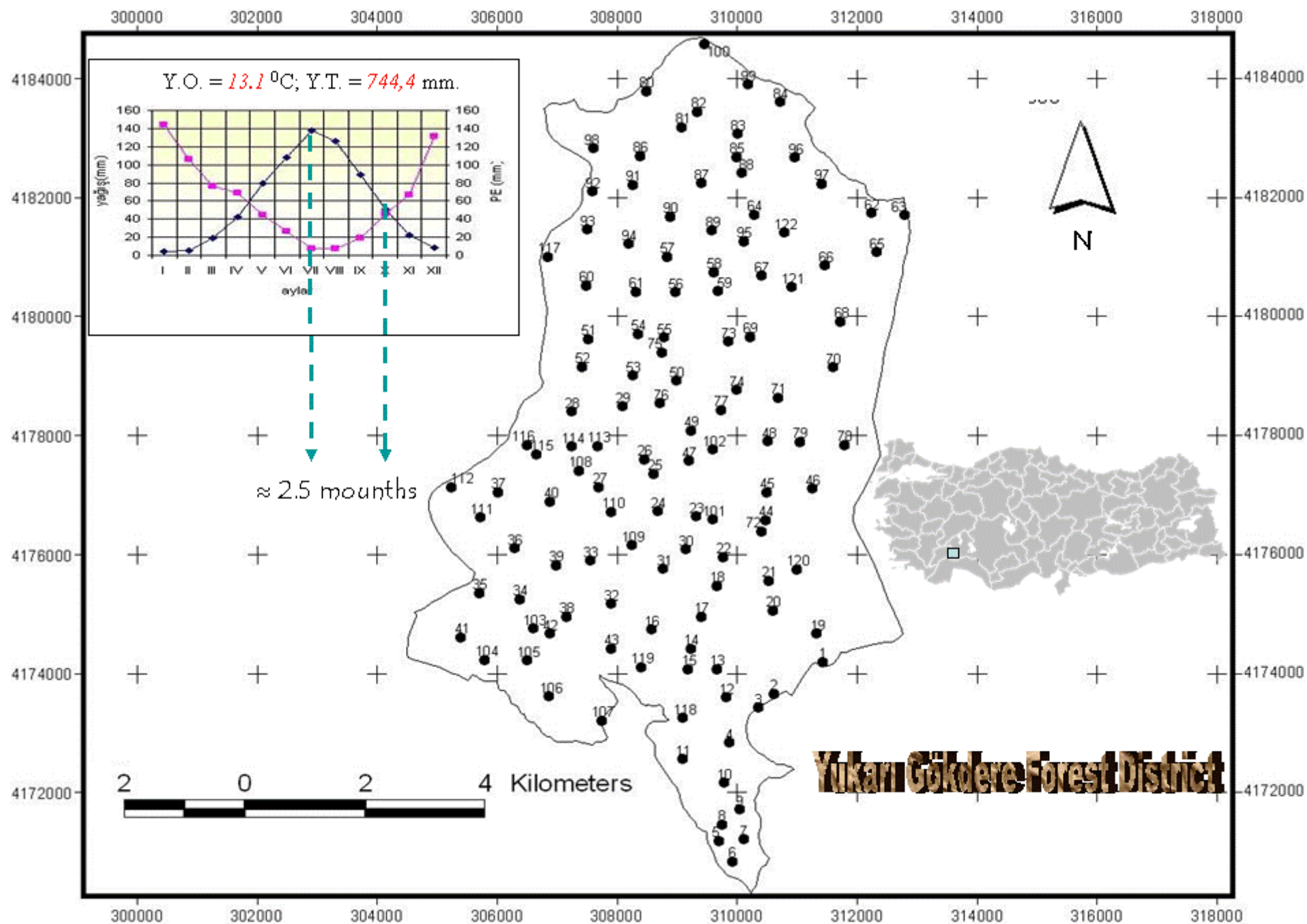


The emission scenarios (SRES-IPPC)





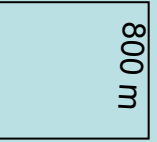
**İklim deęiřimi altında bitki t rlerinin daęılımı nasıl
kestirilecek? (*Kasnak meřesi  rmeęi*)**





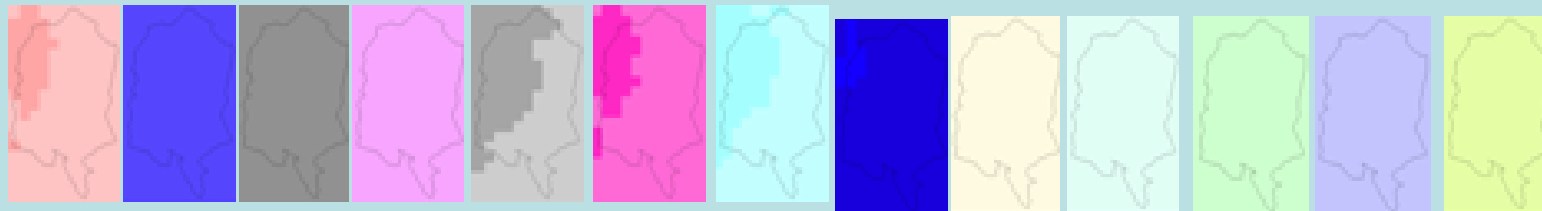
Aralık ayı min_sıcaklık haritası (günümüz)

800 m

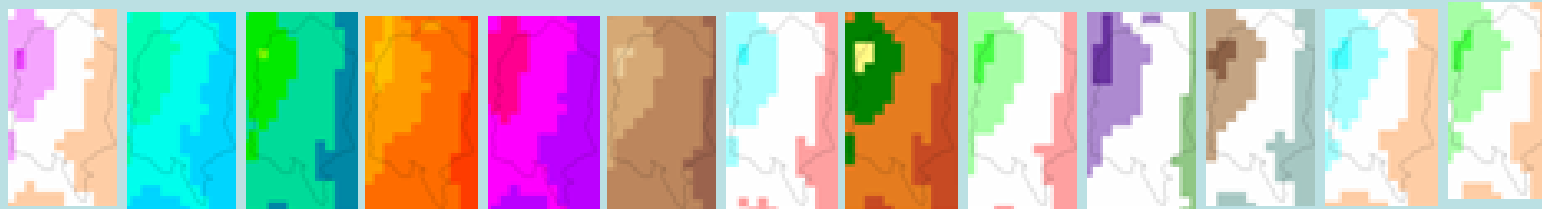


Piksel boyutu

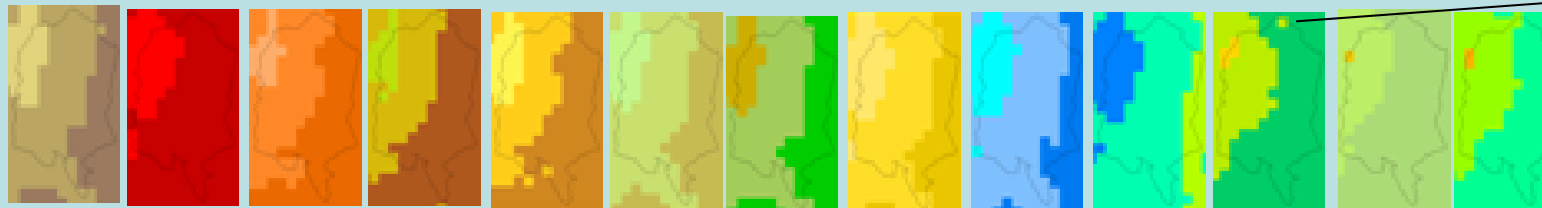
Datum & Models



From the left to the right: **Precipitation** (annual, January, February, March, April, May, June, July, August, September, October, November, December)



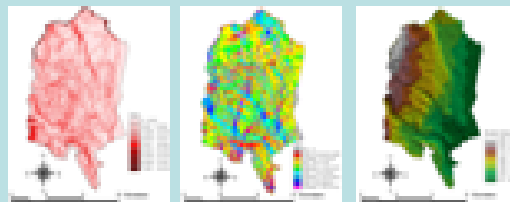
From the left to the right: **mean_temperature** (annual average, January, February, March, April, May, June, July, August, September, October, November, December)



From the left to the right: **mean_temperature** (annual average, January, February, March, April, May, June, July, August, September, October, November, December)

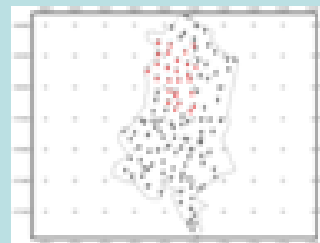
800 m

800 m



From the left to the right: **slope, aspect, altitude**

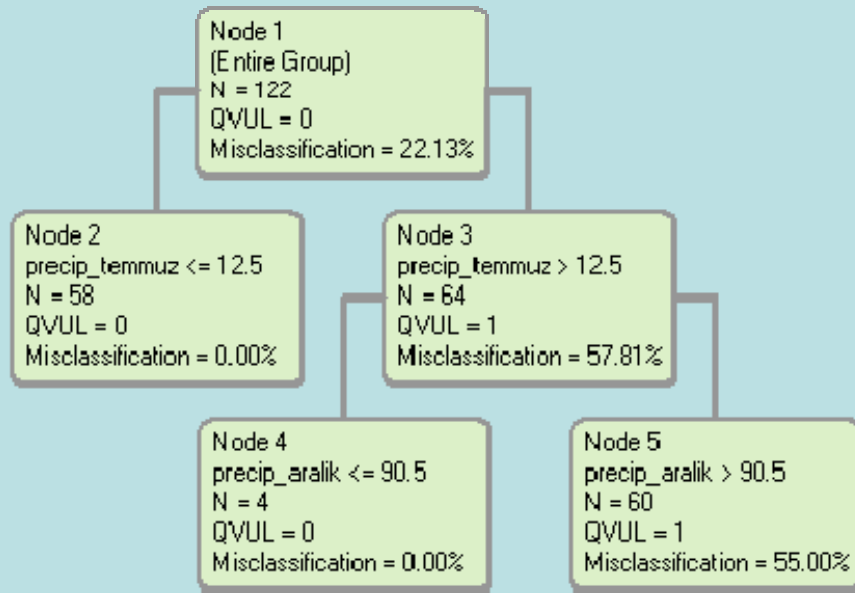
vs.



- Presence of Karst Oak
- absence of Karst Oak

Piksel boyutu

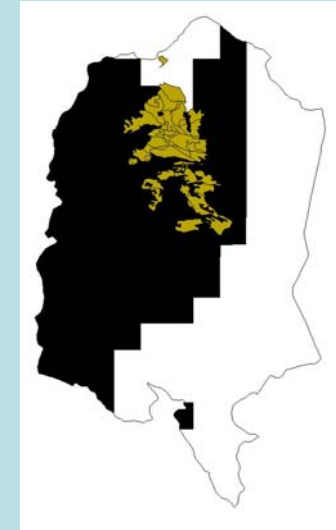
KASNAK MEŞESİNİN POTANSİYEL YAYILIŞ HARİTASI



aktüel



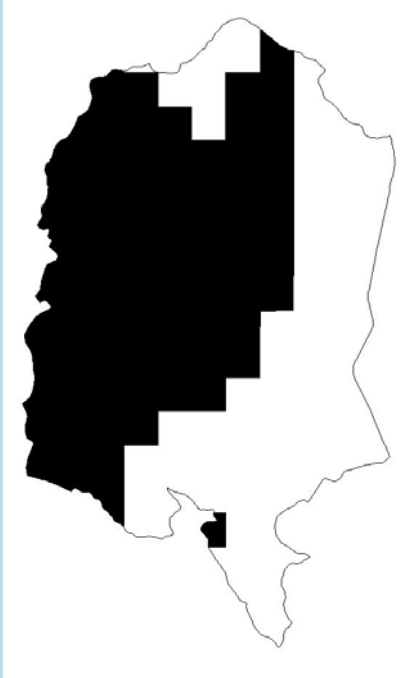
potansiyel



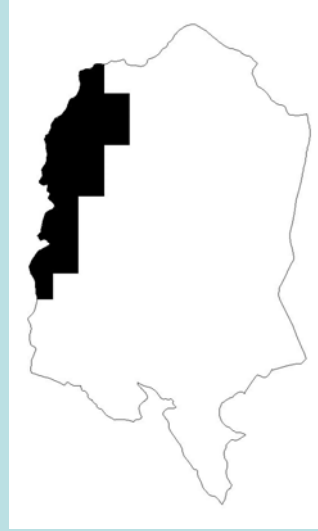
$\chi^2 = 35.83$ (p<0.000)

Count		regclasstwowocatag		Total
		0	1	
QVUL	0	62	33	95
	1	0	27	27
Total		62	60	122

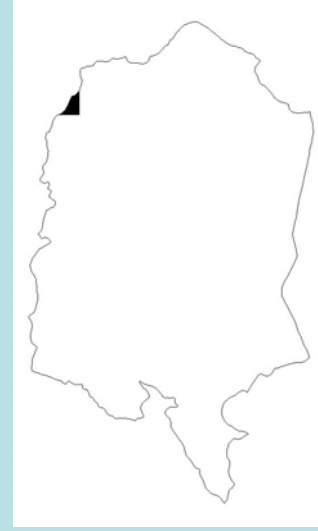
**Kasnak
meşesinin
senaryolara
göre
gelecekteki
günümüz
muntmel**



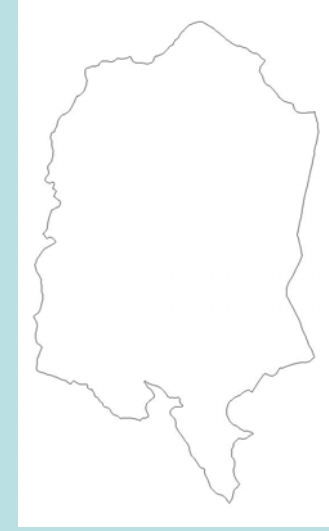
a2-2020



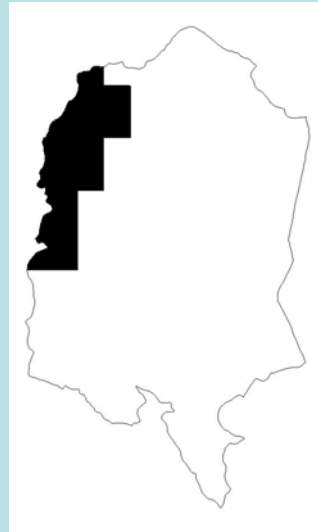
a2-2050



a2-2080



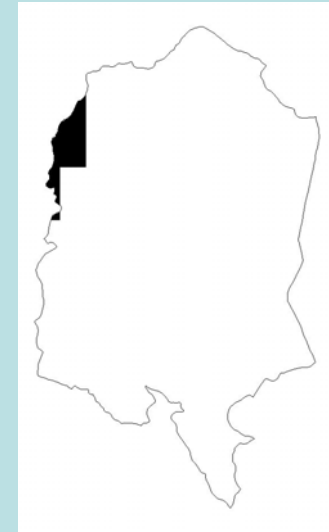
b2-2020



b2-2050



b2-2080



HATCM3 (Hadley merkezinin modelleri)

Günümüz Gelecek (A1)

Intermediate report

EUROMONT Workshop

Climate threat to
alpine plant diversity in Europe

A European workshop held at
the University of Lausanne
April 10-13, 2006
Lausanne, Switzerland

Prof. Antoine Guisan

With the collaboration of
Robin Engler & Christophe Randin

University of Lausanne
Department of Ecology & Evolution
The Biophore
CH-1015 Lausanne
Switzerland

*Cerastium
latifolium*



*Ranunculus
alpestris*



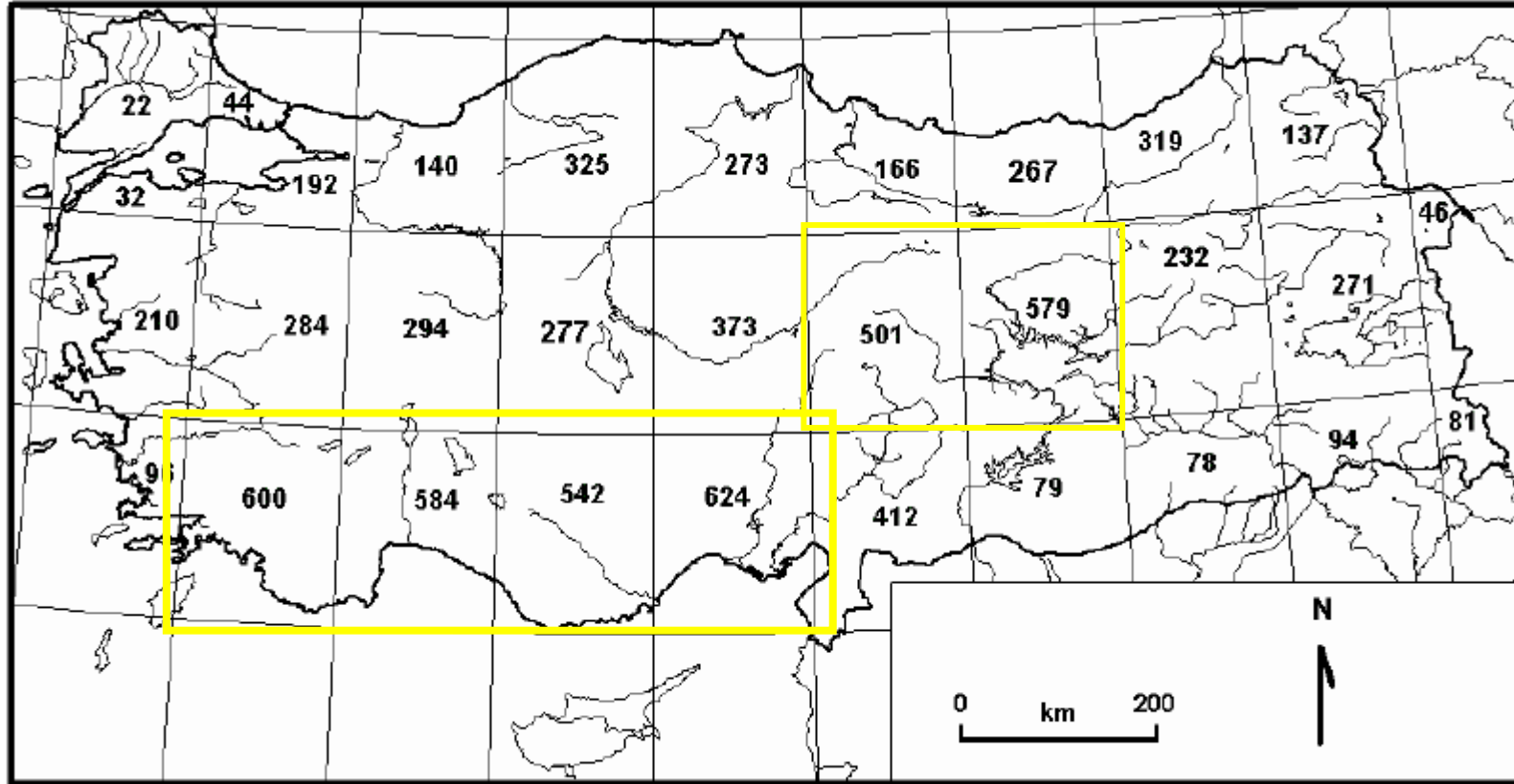
Günümüz

Gelecek (A1)

Açılacak potansiyel alan



Ranunculus
alpestris



Şekil 19- Türkiye endemik bitki sayılarının dağılışı (Kutluk ve Aytuğ, 2001).



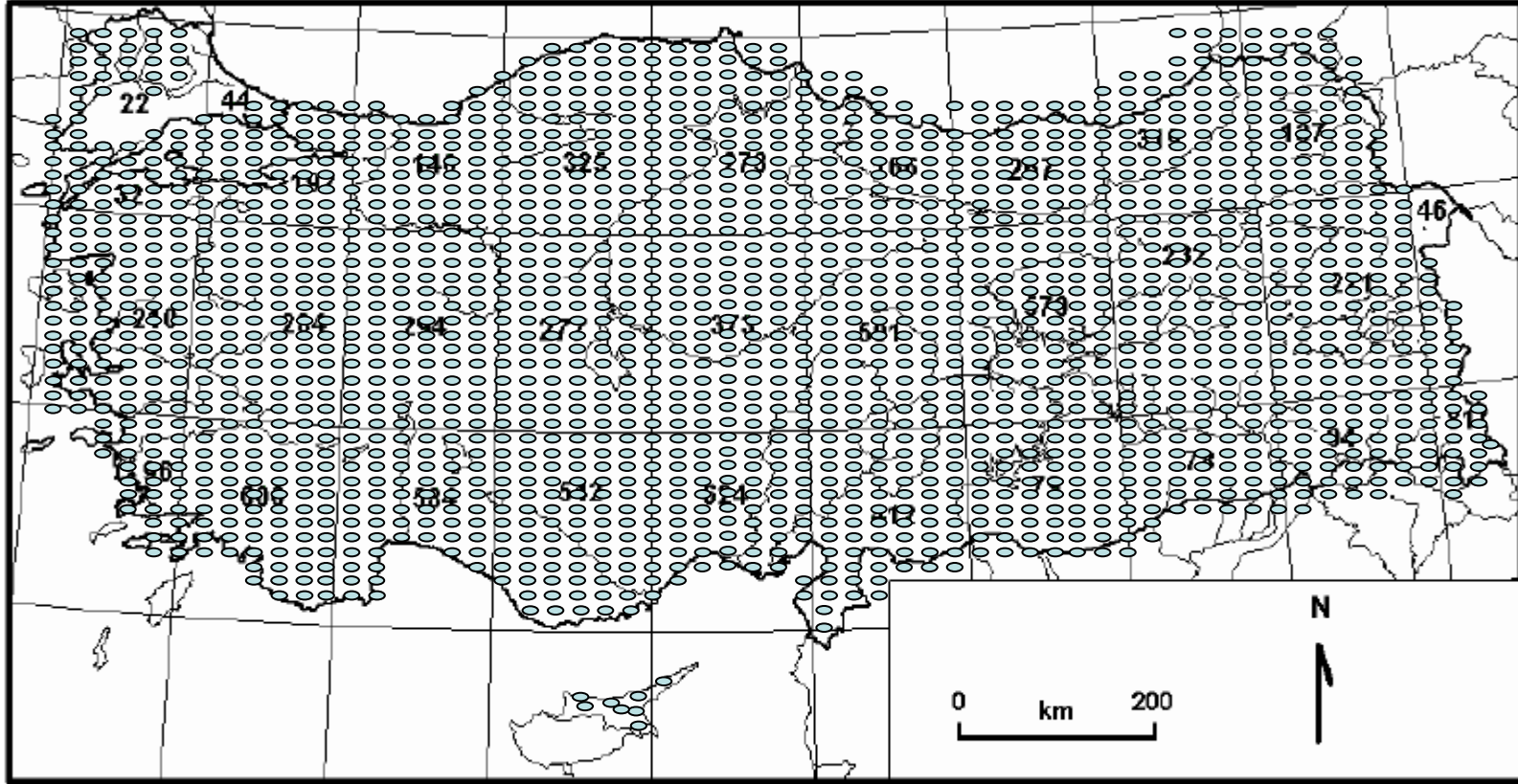
Istanbul Üniversitesi Edebiyat Fakültesi Coğrafya Bölümü
COĞRAFYA DERGİSİ
 Sayı 13, Sayfa 27-55, İstanbul, 2005
 Basılı Nüsha ISSN No: 1302-7212 Elektronik Nüsha ISSN No: 1305-2128



ÇEŞİTLİLİK VE ENDEMİZM AÇISINDAN TÜRKİYE'NİN BİTKİ ÖRTÜSÜ

Diversity and Endemism in Turkey's Vegetation

Meral AVCİ^a

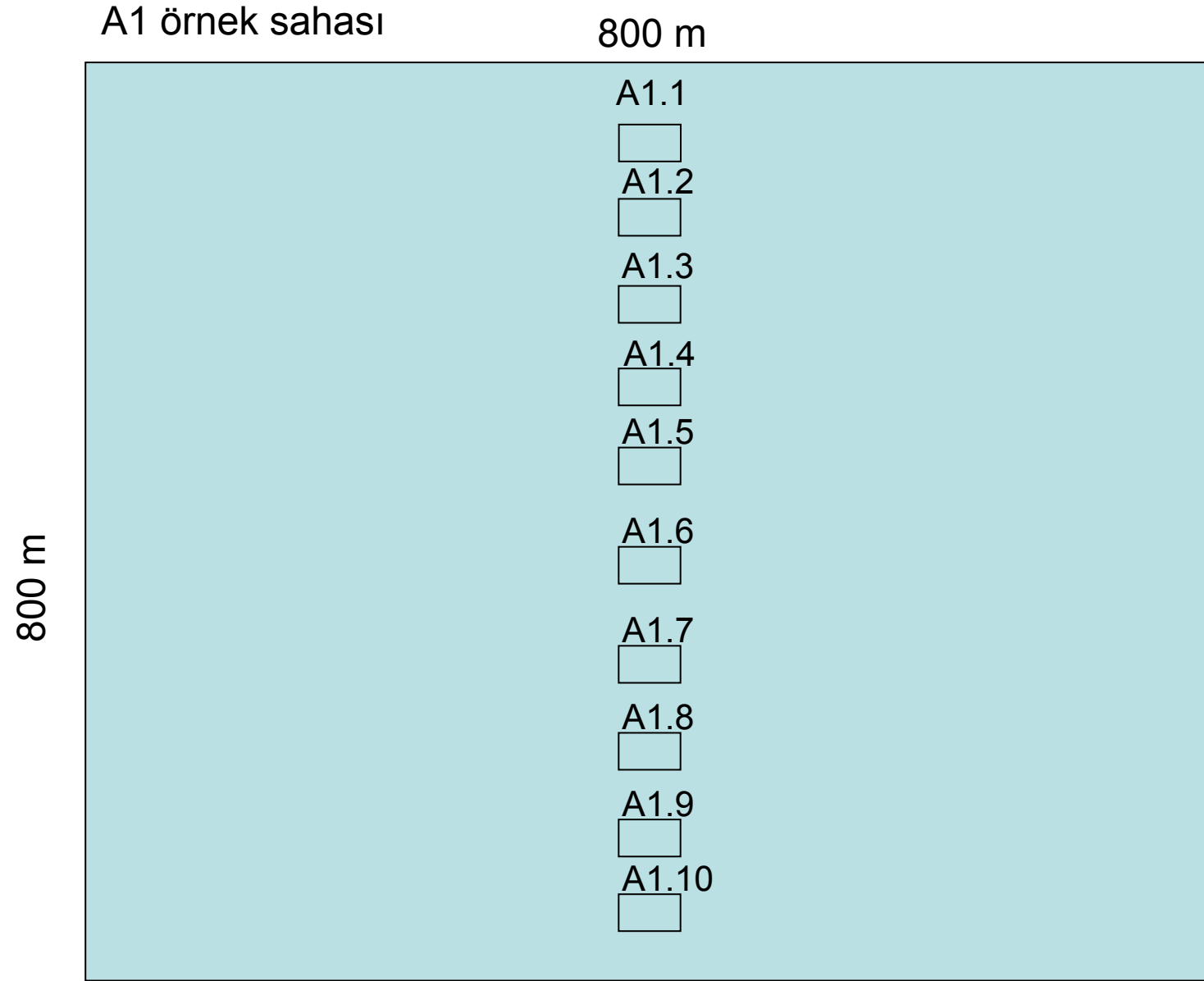


Şekil 19- Türkiye endemik bitki sayılarının dağılışı (Kutluk ve Aytuğ, 2001).

• Örnek sahalar yerleştirilecek (5000 civarı örnek saha)

50 tane botanikçi, her biri 100 er örnek saha,

Maliyet: örnek saha başına 200 ytl, + 100 CPS + paketler + program eğitimi



Bitki türlerinin var-yok verileri (yapısal çeşitlilik?)

Global Cooling Reality vs. Global Warming Politics ¹

Blvenido "Nonoy" Oplis, Jr. ²
April 22, 2009

Introduction

It is Earth Day today, a day where people around the world are reminded that the Earth is "in danger" – from climate change, from global warming, much carbon dioxide (CO2) and greenhouse gases (GHGs), from rising sea level on. Today, the climate change hysteria is further fanned.

On the other hand, this week, if not this whole month, a climate anomaly, cloudy almost everyday, rain showers at least twice a week, tail-end of a dry season, until middle of the month, then occurrence of low pressure area along into convergence zone (ITCZ) in many parts of the country with threats of flash floods in some provinces. This week for instance, April 20 to 26, 2009, Manila (Alderson) temperature range on average (including forecast) is 25° C to 30° C maximum (Source: <http://www.wunderground.com/global/stations/98429.html>).

But this month is one of two hottest months of the year. We are supposed to have a sunny and cloudless sky. The average maximum temperature for April years was 33° C (Source: <http://www.weatherbase.com/weather/weather.php3?i=92489&ref=8&un>) and (b) last 11 years, 1998-2008, was 34.8° C (Source: PAGASA/CAB/C/ meteorological station at Quezon City). This means that the Philippines, or Manila at least, is experiencing around 3° C cooling in April this year compared to the average April temperature over the past 2 decades!

¹ Presented at the joint meeting, Rotary Club of Makati McKinley and Rotary Club of T. Bonifacio, RI District 3830, Darts Bistro, AIM Conference Center, Makati City, Philippines.
² President, Minimal Government Thinkers, Inc. and Past President, Rotary Club of T. Bonifacio

Global Cooling is Here Evidence for Predicting Global Cooling for the Next Three Decades

By Prof. Don J. Easterbrook

Global Research, November 2, 2008
Department of Geology, Western Washington University

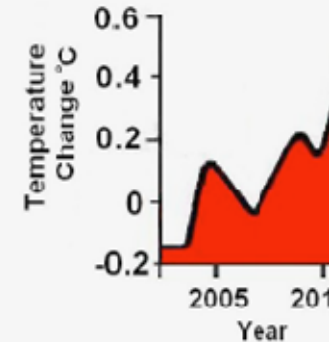
Global Research Editor's note

The following article represents an alternative view to the dominant Global Warming Consensus.

Global Research does not necessarily endorse or value the Consensus on Global Warming. On global climate change.

INTRODUCTION

Despite no global warming in 10 years and no Climatic Change (IPCC) and computer models the Earth is in store for catastrophic warming of 1° F per decade and 5-6° C (10-12° F) ramifications for human life, natural habitat predicated on the assumption that global warming will continue to rise rapidly.



WAITING FOR GLOBAL COOLING

by

Robert Fawcett and David Jones

National Climate Centre
Australian Bureau of Meteorology
Melbourne, Australia
April 2008

Corresponding author:

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Australian Bureau of Meteorology
GPO Box 1289, Melbourne, Vic 3001

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Email: d.jones@bom.gov.au

Summary

There is very little justification for asserting that global warming has gone away over the past ten years, not least because the linear trend in globally-averaged annual mean temperatures (the standard yardstick) over the period 1998-2007 remains upward. While 1998 was the world's warmest year in the surface-based instrumental record up to that point in time, 2005 was equally warm and in some data sets surpassed 1998. A substantial contribution to the record warmth of 1998 came from the very strong El Niño of 1997/98 and, when the annual data are adjusted for this short-term effect (to take out El Niño's warming influence), the warming trend is even more obvious.

Because of the year-to-year variations in globally-averaged annual mean temperatures, about ten years are required for an underlying trend to emerge from the "noise" of those year-to-year fluctuations. Hence, the fact that 2006 and 2007 were cooler than 2005, is nowhere near enough data to clearly establish a cooling trend.

Global warming stopped in 1998. Global temperatures have remained static since then, in spite of increasing concentrations of greenhouse gases in the atmosphere. Global temperatures have cooled since 1998. Because 2006 and 2007 were cooler than 2005, a global cooling trend has established itself.

All these statements, and variations on them, have been confidently asserted in the international and Australian media in the past year or so, but the data do not support them.

Sürdürülebilirlik, ekolojik açıdan

- Türlerin dağılımı
- Biyolojik çeşitlilik
- Ekosistemlerin Verimliliği
- Gelecekteki potansiyel yangın risk alanları
- Ölçek ne olacak? Yöre ölçeği? Bölge ölçeği? Türkiye? Bütün dünya?

Sürdürülebilirlik, ekolojik açıdan

- Türlerin günümüz ve gelecekteki yayılış, verimlilik alanlarının tespiti ve haritalanması;
- Biyolojik çeşitlilik bakımından günümüz ve gelecekteki muhtemel önemli potansiyel alanlar,
- **Hangi ülkenin doğal türü** bizim alanlarımızda gelecekte doğal olarak yayılabilecek?
- Bunlar **sürdürülebilir ormancılık** açısından önemli midir?.
- Sözleşmeler önemlimidir? (Biyolojik çeşitlilik, Kyoto protokolü..)

Sürdürülebilirlik, ekolojik açıdan

- Yaban hayvanları için günümüz (ve gelecekte?) habitat uygunluk haritalaması mümkün mü?

Sürdürülebilirlik, ekolojik açıdan

- Sürdürülebilirlik için;
- Orman ekosistemini oluşturan canlılara ait potansiyel anlamda Mekansal ve zamansal dağılım veri temini

Sürdürülebilirlik, ekolojik açıdan

- Senaryo yazılımları;
- Uzmanlar (toplum bilimcileri, ekonomistler, doğa bilimleri uzmanları, uluslar arası ilişki uzmanları...vb.).
- Alternatif senaryoların üretimi,
- Planlama

teşekkürler