

CAB ABSTRACTS™

**Comprehensive Agriculture & Applied Life
Science Research**

CAB ABSTRACTS

- **Disciplines**

- Kapsadığı konular uygulamalı yaşam bilimleri, tarım, ormancılık, insan beslenmesi, hayvancılık, veterinerlik ve çevre

- **Coverage**

- 1973 den günümüze 4.8 milyon kayıt
- yıllık 200,000 civarında kayıt eklenir
- Kayıtların %95 i İngilizce özetlidir
- 140 ülkeden 50 dilde 9,000 süreli yayın; 3,500 kitap ve konferans bildirileri, gri literatür (teknik raporlar ve bültenler)

CAB ABSTRACTS

- **Sınıflandırma ve indeksleme**
 - Konu sınıflandırmaları ve indekslemeler konu uzmanlarınca yapılır
 - Kontrollü kelimeleri içeren *CAB Thesaurus*.
 - Broad Descriptors
 - Descriptors
 - Geographic Location
 - Identifiers
 - Organisms Descriptors
 - 24 geniş kategoride 340'dan fazla konu alanının hiyerarşik düzenlendiği *CABICODES*.

ISI Web of KnowledgeSM CAB Abstracts

CAB Abstracts[®]

[Information for New Users](#)

Select a search option: Quick search: Example: protein SAME sorghum*

Search by subject term, author, source publication, address, ...

Search using complex queries including field tags and set up ...

Open a previously saved search history.

Select timespan:

Latest (updated December 03, 2004)

Year

From to (default is all years)

CAB Abstracts--1973-present

To remember these settings, first [sign in or register](#).

The Notices file was last updated 9/16/2004

Çoklu arama seçenekleri hem tecrübesiz hem de deneyimli kullanıcılar için uygundur

Arama esnasında sınırlamalar kolaylıkla değiştirilebilir.

General Search

Kullanımı son derece kolaydır ve tüm alanlardan tarama yapmaya müsaittir

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WELCOME HELP SEARCH HISTORY ADVANCED SEARCH

General Search

Selected timespan:
Database=CAB Abstracts; Timespan=1973-2004

Enter terms or phrases separated by the operator AND, OR, NOT.
The search will be added to the search history.

SEARCH CLEAR

Select a search option

GENERAL SEARCH

ADVANCED SEARCH

OPEN SAVED SEARCH

Select timespan:

① CAB Abstracts--1

TOPIC: ① Enter one or more terms. Searches within title, descriptors, and abstract.
Example: antigen ([More examples](#))*

Title only

AUTHOR/EDITOR: ① Enter one or more personal author, editor, or corporate author (see [author/editor index](#)).
Examples: Smith, J. D. OR Jones, A. B.

DESCRIPTORS: ① Enter the descriptors (use [CAB Thesaurus](#)).
Example: fodder legumes

Include Broad Terms

CABICODES: ① Enter the classification code or name (use [CABICODES list](#)).
Example: JJ300 OR Soil Physics

SOURCE PUBLICATION: ① Enter the source publication.
Example: Pesticide Research

ADDRESS: ① Enter the address.
Example: H. J. Muller

CAS REGISTRY NUMBER: ① Enter the CAS Registry Number.
Example: 70-51-9

Restrict search by languages and document types:

All languages	All document types
English	Abstract only
Afrikaans	Annual report

SEARCH CLEAR

THOMSON

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WELCOME HELP SEARCH HISTORY ADVANCED SEARCH

General Search

Selected timespan:
Database=CAB Abstracts; Timespan=1973-2004

Enter terms or phrases separated by the operator AND, OR, NOT.
The search will be added to the search history.

SEARCH CLEAR

TOPIC: Enter one or more terms. Search for terms in the following fields:
*Example: antigen** ([More examples](#))

Title only

AUTHOR/EDITOR: Enter one or more personal author, editor, or corporate author/editor ([author/editor index](#)).
*Examples: Smith A B** or *De Simone F**

SOURCE PUBLICATION: Enter journal, book or conference title (see [source publication index](#)).
Example: Plant Cell

ADDRESS: Enter terms from an author's affiliation (use [abbreviations help](#)).
*Example: Howard Univ** OR *Merck*

DESCRIPTORS: Enter the descriptors (use [CAB Thesaurus](#)).
Example: fodder legumes

Include Broad Terms

CABICODES: Enter the classification code or name (use [CABICODES list](#)).
Example: JJ300 OR *Soil Physics*

Topic

Searches the following fields within a record.

- English Title
- Foreign Title
- Abstract
- Descriptors
- Broad Descriptors
- Organism Descriptors
- Geographic Location
- Identifiers
- CABICODE Names

“Topic “ arama çoklu alanlar için planlanmıştır. Her tecrübesiz kullanıcı gelişmiş indekslemenin avantajlarından yararlanabilir

Browse Descriptors Hierarchy

KEY: ADD = add to query T = view thesaurus details [JUMP TO ITEM](#)

- GENERAL
- PHYSICAL SCIENCES
- EARTH SCIENCES
- LIFE SCIENCES
 - ADD biology T
 - ADD ecology T
 - ADD human ecology T
 - (ecology by discipline)
 - ADD biogeography T
 - ADD phytogeography T
 - ADD zoogeography T

CABICODE List

Use the Find and Browse features to locate codes to add to your query.

Enter text to find terms containing or related to the text.

Example: pharmacol*

Results Page 1 (Terms 1 - 19 of 19)

Navigation icons: back, forward, search, etc.

KEY: = add to query = view in hierarchy = view scope notes

- FF800 Plant Toxicology
- HH430 Pesticide and Drug Residues and Ecotoxicology (NEW March 2000)
- LL882 Veterinary Pharmacology and Anaesthesiology (NEW March 2000)
- LL900 Animal Toxicology, Poisoning and Pharmacology (Discontinued March 2000)
- LL950 Toxicology and Poisoning of Animals (NEW March 2000)
- QQ100 Food Processing (General)

FF800 Plant Toxicology

KEY: = add to query = view in hierarchy = view scope notes

Code FF800 Plant Toxicology

: Phytotoxicities caused by pesticides, toxic chemicals and specific pollutants. Toxicology tests.

For: effects on aquacultured plants, also add MM130.
Toxicology tests.
effects on field crops, also add FF005.
effects on forage and fodder crops, also add FF007.
effects on forest trees, also add KK100.
effects on horticultural crops, also add FF003.
phytotoxicity of pesticides, also add HH430.
pollution, also add PP600.

Her CABICODE için kapsam açıklamaları

Hiyerarşik CAB Thesaurus ve CABICODES listelerine gözetme ve arama

CAB Thesaurus -- Descriptors field

Use the Find feature to locate terms to add to your query.

Enter text to find terms containing or related to the text .

Example: acid*

Browse Descriptors Hierarchy



KEY: = add to query = view thesaurus details

- GENERAL
- PHYSICAL SCIENCES
- EARTH SCIENCES
 - geology
 - (geology by discipline)
 - geochemistry
 - biogeochemistry

Transfer your selected term(s) below to the Descriptors field on the Search page.

“ADD” tuşuna tıklayarak istenen terim hakkında arama yapmak mümkün

Advanced Search

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WELCOME HELP GENERAL SEARCH SEARCH HISTORY

Advanced Search

(See search history below)

Selected timespan:

Database=CAB Abstracts; Timespan=1973-2004

CHANGE SETTINGS

Search using 2-character tags. Combine sets using Boolean operators. Nest terms using parenthesis ().

Examples: TS=(protein SAME sorghum) AND AU=Miller B L [more examples](#)
#1 NOT #2

Field Tags	Booleans
TS=Topic	AND
TI=Title	OR
AU=Author/Editor	NOT
SO=Source	SAME
AD=Address	
DE=Descriptors	
BD=Descriptors/Broad Terms	
CC=CABICODES	
CR=CAS Registry No.	

Select a search option:

GENERAL SEARCH

Search by

ADVANCED SEARCH

Search u

OPEN SAVED SEARCH

Open a p

Select timespan:

Search Aids: [Author Index](#) | [Source Index](#) | [CAB Thesaurus](#) | [CABICODES](#)

Restrict search by languages and document types

All languages: English, Afrikaans
All document types: Abstract only, Annual report

Search History

Combine Sets	Results	Delete Sets
<input checked="" type="radio"/> AND <input type="radio"/> OR <input type="button" value="COMBINE"/>		<input type="button" value="SELECT ALL"/> <input type="button" value="DELETE"/>
<input type="checkbox"/> #3	19 #2 AND #1 DocType=All document types; Language=All languages; Database=CAB Abstracts; Timespan=1973-2004	<input type="checkbox"/>
<input checked="" type="checkbox"/> #2	48,690 CC=(FF150) DocType=All document types; Language=All languages; Database=CAB Abstracts; Timespan=1973-2004	<input type="checkbox"/>
<input checked="" type="checkbox"/> #1	770 TS=(contaminat*) AND DE=(irrigation) DocType=All document types; Language=All Languages; Database=CAB Abstracts; Timespan=1973-2004	<input type="checkbox"/>
<input type="radio"/> AND <input type="radio"/> OR <input type="button" value="COMBINE"/>		

“Komut Satırı” tarzı arama yapmaya alışmış kullanıcılar için elverişli bir seçenektir

“Search History” tablosundan “AND” butonu kullanılarak yapılmış örnek bir arama



Search Results -- Summary

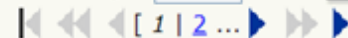
TS=(contaminat*) AND DE=(irrigation)

DocType=All document types; Language=All languages; Database=CAB Abstracts;

774 results found

Records 1 -- 10

Go to Page: of 78



Use the checkboxes to select individual articles for marking, then click Submit to add them to the Marked List.

- 1. Weiss C. M.; Fox K.
[European food supply chains - are they sustainable?](#)
 Executive Outlook 3 (3): 54-63 2003
- 2. Marchiol L.; Sacco P.; Assolari S.; et al.
[Reclamation of polluted soil: phytoremediation potential of crop-related Brassica species.](#)
 Water, Air, and Soil Pollution 158 (1/4): 345-356 2004
- 3. Kouznetsov M. Y.; Pachepsky Y. A.; Gillerman L.; et al.
[Microbial transport in soil caused by surface and subsurface drip irrigation with treated wastewater.](#)
 International Agrophysics 18 (3): 239-247 2004
- 4. Alam M. G. M.; Snow E. T.; Tanaka A.
[Arsenic and heavy metal contamination of rice, pulses and vegetables grown in Samta village, Bangladesh.](#)
 Fifth International Conference on Arsenic Exposure and Health Effects, San Diego, California, USA, 14-18 July, 2002.
 Fifth International Conference on Arsenic Exposure and Health Effects, San Diego, California, USA, 14-18 July, 2002 103-114 2003
- 5. Mohammad Karamouz; Reza Kerachian; Banafsheh Zahraie
[Monthly water resources and irrigation planning: case study of conjunctive use of surface and groundwater resources.](#)
 Journal of Irrigation and Drainage Engineering 130 (5): 391-402 2004

Sort by:

Latest date
 Latest date
 Relevance
 First author
 Source Publication
 Conference Title

Records to

You can print, save, export, e-mail, and order records after adding them to the Marked List. (The list can hold 500 records.)

Analyze Results:

View rankings and histograms of the authors, journals, etc. for this set of records. (Up to 2,000 records at a time.)

Analiz Sonuçları

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Results Analysis

307 records. TS=(wheat) AND DE=(global warming or climatic change)

Select field to rank by:	Analyze:	Set display options:	Sort by:
Author CABICODES Descriptor Document Type	<input type="radio"/> First 500 records <input checked="" type="radio"/> All (up to 2000 records)	Show the top 10 results. Minimum record count (threshold): 2	<input checked="" type="radio"/> Record Count <input type="radio"/> Selection

ANALYZE Rank results by the selected field.

Use the checkboxes below to view the records.
Note: The number of records displayed may be greater than the listed Record Count if the original set contained more records than the number of records analyzed.

VIEW RECORDS	Field: Author	Record Count	% of 307	Bar Chart
<input checked="" type="checkbox"/>	Rosenzweig, C.	20	6.5 %	■
<input checked="" type="checkbox"/>	Porter, J. R.	14	4.6 %	■
<input type="checkbox"/>	Rosenberg, N. J.	12	3.9 %	■
<input type="checkbox"/>	Morison, J. I. L.	8	2.6 %	■
<input type="checkbox"/>	Mearns, L. O.	7	2.3 %	■
<input checked="" type="checkbox"/>	Mitchell, R. A. C.	7	2.3 %	■
<input checked="" type="checkbox"/>	Oijen, M. van	7	2.3 %	■
<input type="checkbox"/>	Ellis, R. H.	6	2.0 %	■
<input type="checkbox"/>	Semenov, M. A.	6	2.0 %	■
<input type="checkbox"/>	Wall, G. W.	6	2.0 %	■

VIEW RECORDS

Analiz kayıtları

Author/Yazar

CABICODES

Descriptor/
Kavramsal Dizin

Document

Type/Döküman Tipi

Languages

/Dil

Publication year

/Yayın Yılı

Source Title/Kaynak

Başlığı

“View Records” butonunu tıklayarak sonuçlar görülebilir.



Full Record

◀ Record 37 of 307 ▶ ▲ SUMMARY

Accession Number: 20033030488

Document type: Journal article

Title: Identification of empirical relationships between indices of ENSO and NAO and agricultural yields in Spain.

Author(s): Gimeno, L.; Ribera, P.; Iglesias, R.; Torre, L. de la; Garcia, R.; Hernandez, E.

Source: Climate Research 21 (2) : 165-172 2002

Language: English

Abstract: This study characterizes the influence of the El Nino-Southern Oscillation (ENSO) and the North Atlantic Oscillation (NAO) on the most important crops in Spain using statistical analysis of the response of historical yields to ENSO and NAO phases. The response to ENSO phases is weak, being only significant for lemon yields, whereas the response to NAO phases is stronger, being significant for lemon, **wheat**, rye and olive. The results could be useful for producers, allowing them to adjust crop management, and for politicians, allowing better quantification of national crops limits.

Address: Universidad de Vigo, Facultad de Ciencias de Orense, 32004 Orense, Spain.

Publisher: Inter-Research; Oldendorf/Luhe; Germany

ISSN: 0936-577x

CABICODES: FF003 Horticultural Crops (NEW March 2000); FF005 Field Crops (NEW March 2000); FF007 Forage and Fodder Crops (NEW March 2000); FF100 Plant Production; PP500 Meteorology and Climate

Descriptors: **climatic change**; climatology; crop management; crop yield; lemons; olives; rye; seasonal variation; weather patterns; **wheat**

Geographic Location: Spain

Organism Descriptors: Citrus; Citrus limon; Olea europaea; Secale cereale; Triticum; Triticum aestivum

Identifiers: ENSO; NAO

Broad Descriptors: Citrus; Rutaceae; Sapindales; dicotyledons; angiosperms; Spermatophyta; plants; Olea; Oleaceae; Scrophulariales; Secale; Poaceae; Cyperales; monocotyledons; Southern Europe; Europe; Mediterranean Region; Developed Countries; European Union Countries; OECD Countries; Triticum

◀ Record 37 of 307 ▶ ▲ SUMMARY

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Full Record

Record 37 of 307 SUMMARY

Accession Number: 20033030488

Document type: Journal article

Title: Identification of empirical relationships between ENSO and wheat yields in Spain.

Author(s): Gimeno, L.; Ribera, P.; Iglesias, R.; Torrecilla, E.

Source: Climate Research 21 (2) : 165-172, 2002

Language: English

Abstract: This study characterizes the influence of the El Nino-Southern Oscillation (ENSO) and the North Atlantic Oscillation (NAO) on the most important crops in Spain using statistical analysis of the response of historical yields to ENSO and NAO phases. The response to ENSO phases is weak, being only significant for lemon yields, whereas the response to NAO phases is stronger, being significant for lemon, **wheat**, rye and olive. The results could be useful for producers, allowing them to adjust crop management, and for politicians, allowing better quantification of national crops limits.

Address: Universidad de Vigo, Facultad de Ciencias de Orense, 32004 Orense, Spain.

Publisher: Inter-Research, Oldendorf/Luhe, Germany

ISSN: 0936-577x

CABICODES: FF003 Horticultural Crops (NEW March 2000) March 2000
FF007 Forage and Fodder Crops (NEW March 2000) March 2000
PP500 Meteorology and Climate

Descriptors: climatic change; seasonal variation; weather

Geographic Location: Spain

Organism Descriptors: Citrus; Citrus limon; Olea europaea; Secale cereale; Triticum; Triticum aestivum

Identifiers: ENSO; NAO

Broad Descriptors: Citrus; Rutaceae; Sapindales; dicotyledons; angiosperms; Spermatophyta; plants; Olea; Oleaceae; Scrophulariales; Secale; Poaceae; Cyperales; monocotyledons; Southern Europe; Europe; Mediterranean Region; Developed Countries; European Union Countries; OECD Countries; Triticum

Record 37 of 307 SUMMARY

Yayınçı Tam Metin veya OpenURL linki

Diğer "Web of Knowledge" ürünlerine link

"Web of Science" veri tabanında bulunan atıf bilgilerine link

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Full Record

Record 1 of 1

Accession Number: 20033008175**Document type:** Journal article, Conference paper**Title:** Rust on wheat in the Czech Republic - historic and current.**Foreign Title:** Rost auf Weizen in der Tschechischen Republik - historisch und aktuell.**Author(s):** Bartos, P.; Hanzalova, A.; Dumalasova, V.**Editor(s):** Ruckenbauer, P.; Raab, F.; Kern, R.; Buchgraber, K.; Schaumberger, A.**Source:** Arbeitstagung 2001 der Vereinigung der Pflanzenzüchter und Saatgutkaufleute Österreichs gehalten vom 20. bis 22. November 2001 in Gumpenstein, Irdning, Austria : 17-20 2002**Language:** German**Conference Information:** Arbeitstagung 2001 der Vereinigung der Pflanzenzüchter und Saatgutkaufleute Österreichs gehalten vom 20. bis 22. November 2001 in Gumpenstein, Irdning, Austria.**Abstract:** Yellow [*Puccinia striiformis*] and black rust [*P. graminis*] caused epidemic devastation in the early 20th century. The official decision to ban susceptible yellow rust varieties reduced the yellow rust risk significantly. It is suggested that the successful black rust resistance breeding in southeastern Europe during the last few decades has also reduced the risk of an epidemic in Central Europe. Brown rust [*P. recondita*] is a more recent problem and the risk increase with climate change and warmer summers in southern Czech Republic. Systematic resistance breeding in the second half of the 20th century introduced the genes Lr3, Lr26, Yr9 and Sr5. The influence of these genes on virulence genes of rust populations was found very rarely. In some rust populations, virulence genes were found where the varieties used had no resistance genes at all.**Address:** Forschungsinstitut für Pflanzenproduktion, Drnovska 507, CZ-16106 Praha-Ruzyne, Czech Republic.**Publisher:** Bundesanstalt für alpenländische Landwirtschaft Gumpenstein; Irdning; Austria**CABICODES:** FF005 Field Crops (NEW March 2000); FF610 Viral, Bacterial and Fungal Diseases of Plants (NEW March 2000); HH600 Host Resistance and Immunity; FF020 Plant Breeding and Genetics**Descriptors:** climatic change; disease resistance; fungal diseases; genes; plant diseases; plant pathogenic fungi; plant pathogens; varietal reactions; wheat**Geographic Location:** Central Europe, Czech Republic, Europe**Organism Descriptors:** *Puccinia graminis*; *Puccinia recondita*; *Puccinia striiformis*; *Triticum*; *Triticum aestivum* UNMARK [\[3 articles marked\]](#)

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Full Record

◀ Record 37 of 307 ▶ ▲ SUMMARY

Accession Number: 20033030488

Document type: Journal article

Title: Identification of empirical relationships between indices of ENSO and NAO and agricultural yields in Spain.

Save Confirmation

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Send Me E-mail Alerts: Yes

E-mail address: professor@thomson.com

E-mail format: Plain Text

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FF007 Forage and Fodder Crops (NEW March 2000); FF100 Plant Production; PPS00 Meteorology and Climate

Descriptors: climatic change; climatology; crop management; crop yields; lemons; olives; seasonal variation; weather patterns; wheat

Geographic Location: Spain

Organism Descriptors: Citrus; Citrus limon; Olea europaea; Secale aestivum

Identifiers: ENSO; NAO

Broad Descriptors: Citrus; Rutaceae; Sapindales; dicotyledons; angiosperms; plants; Olea; Oleaceae; Scrophulariales; Secale; Poaceae; Cyperales; monocotyledons; Southern Europe; Europe; Mediterranean Region; Developed Countries; European Union Countries; OECD Countries; Triticum

◀ Record 37 of 307 ▶ ▲ SUMMARY

Bir kayıt için uygun, hızlı ve kolay "Atıf Alarmı" yaratabilir ve güncellemelerini e-posta yoluyla alabilirsiniz.

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Full Record

Record 37 of 307 SUMMARY

Accession Number: 20033030488
Document type: Journal article
Title: Identification of empirical relationships between indices of ENSO and NAO and agricultural yields in Spain.
Author(s): Gimeno, L.; Ribera, P.; Iglesias, R.; Torre, L. de la; Garcia, R.; Hernandez, E.
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Abstract: This study characterizes the influence of the El Nino-Southern Oscillation (ENSO) and the North Atlantic Oscillation (NAO) on the most important crops in Spain using statistical analysis of the response of historical yields to ENSO and NAO phases. The response to ENSO phases is weak, being only significant for lemon yields, whereas the response to NAO phases is stronger, being significant for lemon, **wheat**, rye and olive. The results could be useful for producers, allowing them to adjust crop management, and for politicians, allowing better quantification of national crops limits.

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ISSN: 0936-577x

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Arama sonuçları olarak
 “Marked
 List”/”İşaretlenmiş Liste”
 yaratılabilir.

RETURN

CAB Abstracts Marked Records

HELP

Output Options

Display marked list: CAB Abstracts GO

CAB Abstracts Marked Records - 3 Records

Scroll down to view records

Step 1. Select the fields to include in the output. RESET TO DEFAULTS

- | | | | |
|---|--|--|--|
| <input checked="" type="checkbox"/> Author(s) / Editor(s) | <input checked="" type="checkbox"/> Title | <input checked="" type="checkbox"/> Source | <input checked="" type="checkbox"/> Conference Information |
| <input type="checkbox"/> abstract* | <input type="checkbox"/> language | <input type="checkbox"/> address | <input type="checkbox"/> publisher information |
| <input type="checkbox"/> CABICODES | <input type="checkbox"/> descriptors | <input type="checkbox"/> ISSN/ISBN | <input type="checkbox"/> other information |
| <input type="checkbox"/> document type | <input type="checkbox"/> number of references | <input type="checkbox"/> accession number | <input type="checkbox"/> CAS Registry No. |

*Selecting this item will increase the processing time.

Step 2. Select an option.

Field Tagged	FORMAT FOR PRINT	E-mail records to:	
Field Tagged	SAVE TO FILE	Return e-mail (optional):	
	EXPORT TO REFERENCE SOFTWARE	Notes(optional):	
	ORDER FULL TEXT	Plain Text	E-MAIL

 Automatically delete selected records from the Marked List after output is complete.

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bilgileri seçebilirsiniz.

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ISI Proceedings

International conferences and
meetings

Derwent Innovations Index

International patents

BIOSIS Previews

Biomedical and life sciences
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CAB ABSTRACTS

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Title: Influence of the El Nino Southern Oscillation on fire regimes in the Florida everglades

Author(s): Beckage B, Platt WJ, Slocum MG, Park B

Source: ECOLOGY 84 (12): 3124-3130 DEC 2003

Document Type: Article

Language: English

Cited References: 26 Times Cited: 0

Abstract: Disturbances that are strongly linked to global climatic cycles may occur in a regular, predictable manner that affects composition and distribution of ecological communities. The El Nino Southern Oscillation (ENSO) influences worldwide precipitation patterns and has occurred with regular periodicity over the last 130000 years. We hypothesized that ENSO, through effects on local weather conditions, has influenced frequency and extent of fires within Everglades National Park (Florida, USA). Using data from 1948 to 1999, we found that the La Nina phase of ENSO was associated with decreased dry-season rainfall, lowered surface water levels, increased lightning strikes, more fires, and larger areas burned. In contrast, the El Nino phase was associated with increased dry-season rainfall, raised surface water levels, decreased lightning strikes, fewer fires, and smaller areas burned. Shifts between ENSO phases every few years have likely influenced vegetation through periodic large-scale fires, resulting in a prevalence of fire-influenced communities in the Everglades landscape.

Author Keywords: area burned; El Nino; ENSO; everglades; fire; Florida; global warming; La Nina; lightning; savannas; SOI; wet/dry season

KeyWords Plus: VARIABILITY; VEGETATION; SAVANNAS; DYNAMICS; HISTORY; RANGE

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Accession Number: 20043044605

Document type: Journal article

Title: Contrasting simulated past and future responses of the Amazonian forest to atmospheric change.

Author(s): Cowling, S. A.; Betts, R. A.; Cox, P. M.; Ettwein, V. J.; Jones, C. D.; Maslin, M. A.; Spall, S. A.

Source: Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences 359 (1443): 539-547 2004

Language: English

Abstract: Modelling simulations of palaeoclimate and past vegetation form and function can contribute to global change research by constraining predictions of potential earth system responses to future warming, and by providing useful insights into the ecophysiological tolerances and threshold responses of plants to varying degrees of atmospheric change. We contrasted HadCM3LC simulations of Amazonian forest at the last glacial maximum (LGM; 21 k yr ago) and a Younger Dryas-like period (13-12 k yr ago) with predicted responses of future warming to provide estimates of the climatic limits under which the Amazon forest remains relatively stable. Our simulations indicate that despite lower atmospheric CO2 concentrations and increased aridity during the LGM, Amazonia remains mostly forested, and that the cooling climate of the Younger Dryas-like period in fact causes a trend toward increased above-ground carbon balance relative to today. The vegetation feedbacks responsible for maintaining forest integrity in past climates (i.e. decreased evapotranspiration and reduced plant respiration) cannot be maintained into the future. Although elevated atmospheric CO2 contributes to a positive enhancement of plant carbon and water balance, decreased stomatal conductance and increased plant and soil respiration cause a positive feedback that amplifies localized drying and climate warming. We speculate that the Amazonian forest is currently near its critical resiliency threshold, and that even minor climate warming may be sufficient to promote deleterious feedbacks on forest integrity.

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