

# Meteorological and Geostrophysical Abstracts

## FILE DESCRIPTION

**Meteorological and Geostrophysical Abstracts** provides current citations to international literature on meteorology, climatology, atmospheric chemistry and physics, astrophysics, hydrology, glaciology, physical oceanography and environmental sciences. More than 600 sources, including conference proceedings, books, technical reports, and other monographs are scanned for relevant literature.

## SUBJECT COVERAGE

Broad subject areas of coverage include the following:

- Astrophysics
- Atmospheric disturbances
- Atmospheric structure
- Climatology
- Glaciology
- Groundwater/surface water hydrology
- Hydrologic cycle
- Meteorological observations
- Physical oceanography
- Hydrosphere and hydrology
- Radiation and temperature
- Weather forecasting

## SOURCES

Approximately 200 primary sources of international origin are scanned for relevant literature. They include technical journals, monographs in series, proceedings, reviews, and annual publications.

## TIPS

### USE FILE 29

to search literature on meteorological and geostrophysical research.

### USE /DE

to search for a subject:

S TORNADO PRODUCING?/DE

### USE RANK

to find additional descriptors:

SELECT DUST EFFECTS

RANK DE

### USE /YEAR LIMIT

to limit a search to recently published articles:

SELECT S2/2004:2005

## DIALOG FILE DATA

Inclusive Dates: 1974 to the present

Update Frequency: Monthly

File Size:

More than 260,00 records as of September 2005

## CONTACT

Meteorological and Geostrophysical Abstracts is produced by the American Meteorological Society and is published by CSA. Questions concerning file content should be directed to:

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## SAMPLE RECORD

DIALOG(R)File 29:Meteorology & Geostrophysical Abstracts  
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**AA=** 0000294915 IP ACCESSION NO: 6394087  
**/TI** Marked Decline in Atmospheric Carbon Dioxide Concentrations During the Paleogene

**AU=** Pagani, Mark; Zachos, James C; Freeman, Katherine H; Tipple, Brett; Bohaty, Stephen  
**CS=** Department of Geology and Geophysics, Yale University, 210 Whitney Avenue, New Haven, CT 06511, USA

**JN=,SO=,PD=** Science (Washington), v 309, n 5734, p 600-603, July 22, 2005  
**PY=** PUBLICATION DATE: 2005

**PU=** PUBLISHER: American Association for the Advancement of Science, 1200 New York Avenue, NW Washington DC 20005 USA, [mailto:membership@aaas.org], [URL:http://www.aaas.org]

**DT=** DOCUMENT TYPE: Journal Article  
**RT=** RECORD TYPE: Abstract  
**LA=** LANGUAGE: English  
**SL=** SUMMARY LANGUAGE: English  
**SN=** ISSN: 0036-8075  
**NO=** ASFA NO: CS0514760  
DOI: 10.1126/science.1110063  
**FS=** FILE SEGMENT: Meteorological & Geostrophysical Abstracts

**/AB** ABSTRACT:  
The relation between the partial pressure of atmospheric carbon dioxide (pCO sub(2)) and Paleogene climate is poorly resolved. We used stable carbon isotopic values of di-unsaturated alkenones extracted from deep sea cores to reconstruct pCO sub(2) from the middle Eocene to the late Oligocene ([[carat]6]45 to 25 million years ago). Our results demonstrate that pCO sub(2) ranged between 1000 to 1500 parts per million by volume in the middle to late Eocene, then decreased in several steps during the Oligocene, and reached modern levels by the latest Oligocene. The fall in pCO sub(2) likely allowed for a critical expansion of ice sheets on Antarctica and promoted conditions that forced the onset of terrestrial C sub(4) photosynthesis.

**/DE** DESCRIPTORS: Carbon dioxide effects on climate; Carbon dioxide variations; Photosynthesis; Ice sheets; Carbon dioxide; Palaeoclimate; Atmospheric chemistry; Atmospheric gases; Eocene; Palaeogene; Oligocene; Carbon isotopes; Core analysis; Sediment analysis; Ice caps; PS, Antarctica; Antarctica

**/ID** IDENTIFIERS: Deep sea sediment cores  
**SC=,SH,SH=** SUBJ CATG: 551.583.7, Palaeoclimatology // Subdivide as 551.7 if necessary // (551.583.7)

SEARCH OPTIONS

BASIC INDEX

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	—	All Basic Index Fields	Word	S SEASONAL(W)RHYTHM
/AB	AB	Abstract	Word	S ICE(W)SHEETS(1W)ANTARCTICA/AB
/DE	DE	Descriptor	Word & Phrase	S CARBON(W)ISOTOPES/DE S SEDIMENT ANALYSIS/DE
/ID	ID	Identifier	Phrase	S DEEP SEA SEDIMENT?/ID
/SH	SH	Section Heading Text <sup>1</sup>	Word	S PALAEOCLIMATOLOGY/SH
/TI	TI	Title <sup>2</sup>	Word	S (CARBON(W)DIOXIDE(S)PALEOGENE)/TI

<sup>1</sup> Searchable in the Basic Index and in the Additional Indexes.

<sup>2</sup> Includes monograph and original titles.

ADDITIONAL INDEXES

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
AA=	AA	IP Accession Number	Phrase	S AA=6394087
AU=	AU	Author	Phrase	S AU=PAGANI, MARK?
—	AZ	DIALOG Accession Number		
BN=	BN	ISBN Number	Phrase	S BN=9290926120
CS=	CS	Corporate Source	Word	S CS=(DEPARTMENT(1W)GEOLOGY(F)YALE)
CT=	CT	Conference Title	Word	S CT=(NORDIC(W)HYDROLOGICAL(W)CONF?)
DT=	DT	Document Type	Phrase	S DT=JOURNAL ARTICLE
FS=	FS	File Segment	Phrase	S FS=METEOROLOGICAL & GEOPHYS?
—	II	Digital Object Identifier		
JN=	JN	Journal Name	Phrase	S JN=SCIENCE (WASHINGTON)
LA=	LA	Language	Phrase	S LA=ENGLISH
NO=	NO	Document Number	Phrase	S NO=A01205
PD=	PD	Publication Date	Phrase	S PD=20050722
PU=	PU	Publisher	Word	S PU=(AMERICAN(W)ASSOCIATION(2W)ADV?)
PY=	PY	Publication Year	Phrase	S PY=2005
RT=	RT	Record Type	Phrase	S RT=ABSTRACT
SC=	SC	Section Heading Code	Phrase	S SC=551.583.7
SH=	SH	Section Heading	Phrase	S SC=PALAEOCLIMATOLOGY
SO=	SO	Source Information <sup>3</sup>	Word	S SO=(SCIENCE(W)WASHINGTON)
UD=	—	Update	Phrase	S UD=9999

<sup>3</sup> Display includes Journal name, Volume, Issue Number, Pagination, and Publication Date.

**SPECIAL FEATURES**

For command descriptions, enter HELP LIMIT, HELP SORT, HELP RANK, HELP DUP, HELP CURRENT online.

<b>LIMIT</b>	/ABS -- Records with abstracts /ENG -- English-language records /NONENG -- Non-English-language records /YYYY -- Publication Year	S S1/ABS S S5/ENG S S5/NONENG S S5/2005
<b>SORT</b>	AA, AU, CS, JN, PD, PY, TI	SORT S1/ALL/AU SORT S3/ALL/TI
<b>RANK</b>	All phrase- and numeric-indexed fields in the Additional Indexes can be ranked. Other RANK codes include: DE	RANK DE RANK AU S4
<b>RD, ID</b>	Remove duplicates (RD) or identify duplicates (ID,IDO).	RD S5
<b>CURRENT</b>	Search only the most recent year plus one (CURRENT1) to five (CURRENT5) years.	B 29 CURRENT2

**PREDEFINED FORMAT OPTIONS**

NO.	DIALOGWEB FORMAT	RECORD CONTENT
1	--	DIALOG Accession Number
2	--	Full Record except Abstract
3	Medium	Bibliographic Citation
4	--	Full Record with Tagged Fields
5	--	Full Record
6	Free	Title and Publication Year
7	Long	Bibliographic Citation and Abstract
8	Short	Title, Indexing, and Publication Year
9	Full	Full Record

**OTHER OUTPUT OPTIONS**

For an explanation, enter HELP TYPE, HELP UDF, HELP TAG online.

<b>USER DEFINED FORMATS</b>	User-defined formats can be specified using the display codes listed in the Search Options tables.	TYPE S3/AU,TI/1-3 PRINT S1/TI,AB,DE/ALL
<b>TAG</b>	Output can be displayed with tags identifying each display field.	TYPE S3/3/1-5 TAG PRINT S2/9/ALL TAG
<b>DIRECT RECORD ACCESS</b>	If the accession number of a specific record is known, it can be used to display the record directly.	TYPE 0000135528/6 DISPLAY 0000294917/5 PRINT 0000294807/5

**FOR ONLINE HELP:**

See HELP FIELDS 29 for searchable fields; HELP FORMAT 29 for output formats; HELP LIMIT 29 for limits; HELP RATES 29 for cost information; HELP SORT 29 for sorts.