



Title	Science Directを例に学ぶ学術情報の調べ方
Author(s)	照井, 健志
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# Science Directを例に学ぶ 学術情報の調べ方



2009/12/24

北海道大学大学院 環境科学院

照井 健志

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- 学術情報とは
- 最近の学術情報事情
- 学術情報収集の技(**Elsevier**の例)
- 世界中の情報を検索したい
- 国内の情報を検索したい

# 学術情報とは以下の情報



- 論文 学位論文・投稿論文・寄稿論文
- 雑誌 学術雑誌・官公庁誌・一般誌
- 本 専門書・一般書
- 成果 学会発表・特許
- 業績目録 研究者の業績一覧
- 公開データ
- etc

# 最近の学術情報事情



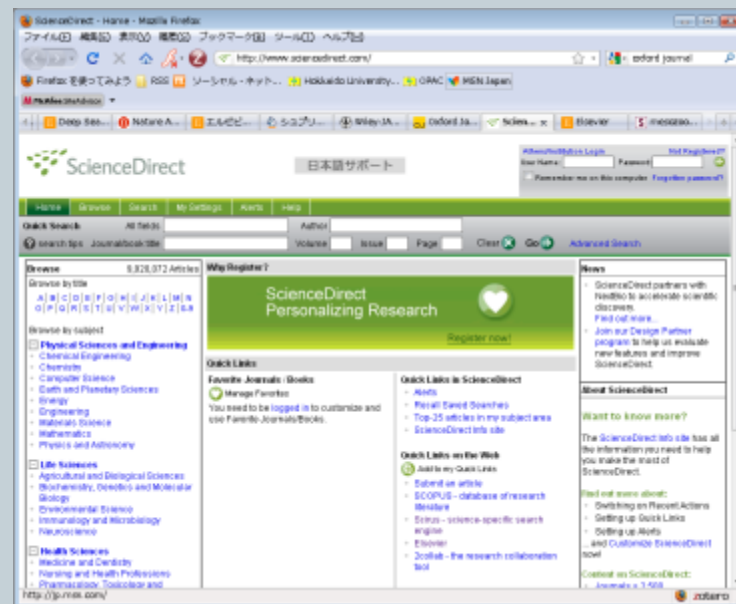
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  - 補足資料や詳細データの提供
  - 要旨の公開
- データベース化
  - 検索機能の提供
  - 参考文献のリンク
  - 関連分野の自動リンク生成

# 最近の学術情報事情 出版社



大手出版社は電子化, 専用サイトを設立

- Elsevier
  - Science Direct
- Springer
  - SpringerLink
- Willey-Blackwell
  - InterScience
- Oxford Journal, Nature, Science, etc.



# 学術情報事情収集の技 Science Directの場合



雑誌一覧を  
表示する

詳細検索をする

キーワードを入れる  
・著者名、雑誌名、巻、号、ページ

The screenshot shows the ScienceDirect homepage in a Mozilla Firefox browser. The browser's address bar displays <http://www.sciencedirect.com/>. The ScienceDirect logo is prominently displayed at the top left, with a "日本語サポート" (Japanese Support) button to its right. A navigation menu below the logo includes links for Home, Browse, Search, My Settings, Alerts, and Help. The "Search" link is highlighted with a red dashed box, and an arrow from the callout "詳細検索をする" points to it. Below the navigation menu is a "Quick Search" section with a search bar and dropdown menus for "All fields", "Author", "Volume", "Issue", and "Page". The search bar is also highlighted with a red dashed box, and an arrow from the callout "キーワードを入れる" points to it. The "Go" button is to the right of the search bar. Below the search bar, there are three main content areas: "Browse" (9,920,072 Articles) with a "Browse by title" section containing an alphabetical index (A-Z, 0-9) and a "Browse by subject" section listing categories like "Physical Sciences and Engineering", "Chemical Engineering", "Chemistry", "Computer Science", "Earth and Planetary Sciences", "Energy", "Engineering", and "Materials Science"; "Why Register?" with a "Quick Link that article now" button; and "News" with a list of updates. At the bottom right, there is an "About ScienceDirect" section and a "Want to know more?" link. The browser's status bar at the bottom shows "完了" (Completed) and the Zotero logo.

# 学術情報事情収集の技 Science Directの場合



## Deep Sea Research Part Iのトップページ

Deep Sea Research Part I: Oceanographic Research Papers - Elsevier - Mozilla Firefox

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ISSN: 0967-0637  
Imprint: PERGAMON

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- 5-Year Impact Factor: 2.482
- Issues per year: 12

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# 学術情報事情収集の技 ランキングの活用

**Resent**  
最新号一覧

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引用数Top 10

**Most Downloaded**  
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The screenshot shows a web browser window displaying the journal page for 'Deep Sea Research Part 1: Oceanographic Research Papers'. The browser's address bar shows the URL: [http://www.elsevier.com/wps/find/journaldescription.cws\\_home/601265/description#description](http://www.elsevier.com/wps/find/journaldescription.cws_home/601265/description#description). The page features a navigation menu with options like 'Recommend to Friend' and 'Bookmark this Page'. A 'Statistics' box on the left provides the following data:

- Impact Factor: 1.791
- 5-Year Impact Factor: 2.482
- Issues per year: 12

The main content area is titled 'Articles' and includes a sub-section for 'Top 10 Cited' (articles published in the last five years, extracted from Scopus on Thu Dec 10 03:47:08 GMT 2009). The list of articles is as follows:

- 90 **Global distribution of naturally occurring marine hypoxia on continental margins**  
*Volume 51, Issue 9, 2004, Pp 1159-1168*  
Helly, J.J. | Levin, L.A.
- 52 **Phytoplankton in the subtropical Atlantic Ocean: Towards a better assessment of biomass and composition**  
*Volume 51, Issue 4, 2004, Pp 507-530*  
Veldhuis, M.J.W. | Kraay, G.W.
- 46 **Biomass and primary productivity of the cyanobacterium *Trichodesmium* spp. in the tropical N Atlantic ocean**  
*Volume 51, Issue 2, 2004, Pp 173-203*  
Carpenter, E.J. | Subramaniam, A. | Capone, D.G.
- 45 **Remote sensing of phytoplankton groups in case 1 waters from global SeaWiFS**

On the right side of the page, there are sections for 'Authors' (including 'Authors Home', 'Submit an Article', etc.) and 'Librarians' (including 'Librarians Home', 'Ordering Information and Dispatch Dates', etc.). The browser's taskbar at the bottom shows the 'zotero' application icon.

# 学術情報事情収集の技 トップページ

既刊号一覧

Abstractと  
目次の表示

PDFのダウンロード

関連論文の表示

The screenshot shows the ScienceDirect website for 'Deep Sea Research Part I: Oceanographic Research Papers, Volume 56, Issue 12, Pages 2077-2292 (December 2009)'. The browser window is Mozilla Firefox. The page content includes a navigation bar with links like 'Sample Issue Online', 'About this Journal', and 'Submit your Article'. Below this is a list of articles for the current volume and issue. A callout box on the left, titled '既刊号一覧', shows a tree view of the journal's issues from 2009. Another callout box, titled 'Abstractと目次の表示', points to the 'Preview' link for the first article, 'Editorial Board'. A third callout box, titled 'PDFのダウンロード', points to the 'PDF (1464 K)' link for the same article. A fourth callout box, titled '関連論文の表示', points to the 'Related Articles' link for the second article, 'Volume transport and distribution of deep circulation at 165°W in the North Pacific'. The page also features a 'New Article Feed' and an 'Alert me about new Volumes / Issues' option. The bottom of the page shows a '完了' (Completed) status and a Zotero icon.

# 学術情報事情収集の技 論文のトップページ

Abstract

図表の表示

参考論文の表示

Cited By:

この論文を引用している論文を表示

The screenshot shows a web browser displaying a ScienceDirect article page. The browser's address bar shows the URL: [http://www.sciencedirect.com/science?\\_ob=ArticleURL&\\_udi=B6VGB-4X0XF59-2&\\_user=4268961&](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6VGB-4X0XF59-2&_user=4268961&). The page title is "Deep Sea Research Part I: Oceanographic Research Papers : Volume transport and distribution of deep circulation at 165°W in the North Pacific". The article title is "Volume transport and distribution of deep circulation at 165°W in the North Pacific" by Fumihiko Kato and Masaki Kawabe. The page includes a navigation menu with "Home", "Browse", "Search", "My Settings", "Alerts", and "Help". There is a "Quick Search" section with input fields for "All fields", "Author", "Volume", "Issue", and "Page". The article content includes the title, authors, and an abstract. The abstract text is: "We conducted full-depth hydrographic observations between 8°50' and 44°30'N at 165°W in 2003 and analyzed the data together with those from the World Ocean Circulation Experiment and the World Ocean Database, clarifying the water characteristics and deep circulation in the Central and Northeast Pacific Basins. The deep-water characteristics at depths greater than approximately 2000 dbar at 165°W differ among three regions demarcated by the Hawaiian Ridge at around 24°N and the Mendocino Fracture Zone at 37°N: the southern region (10–24°N), central region (24–37°N), and northern region (north of 37°N). Deep water at temperatures below 1.15 °C and depths greater than 4000 dbar is highly stratified in the southern region, weakly stratified in the central region, and largely uniform in the northern region. In these three regions, the deep-water characteristics are similar to those of the deep-water masses in the North Pacific." The page also features an "Article Toolbox" with options like "E-mail Article", "Cited By", "Save as Citation Alert", "Citation Feed", "Export Citation", "Add to my Quick Links", and "Permissions & Reprints". A "Related Articles in ScienceDirect" section is visible at the bottom right, listing several related articles. The page footer includes the ScienceDirect logo and the Zotero logo.

関連論文の見出し表示

# 学術情報事情収集の技 図をコピーする

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をクリック

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表示される

Article **Figures/Tables** References PDF (1400 K)

doi:10.1016/j.dsr.2009.08.004  
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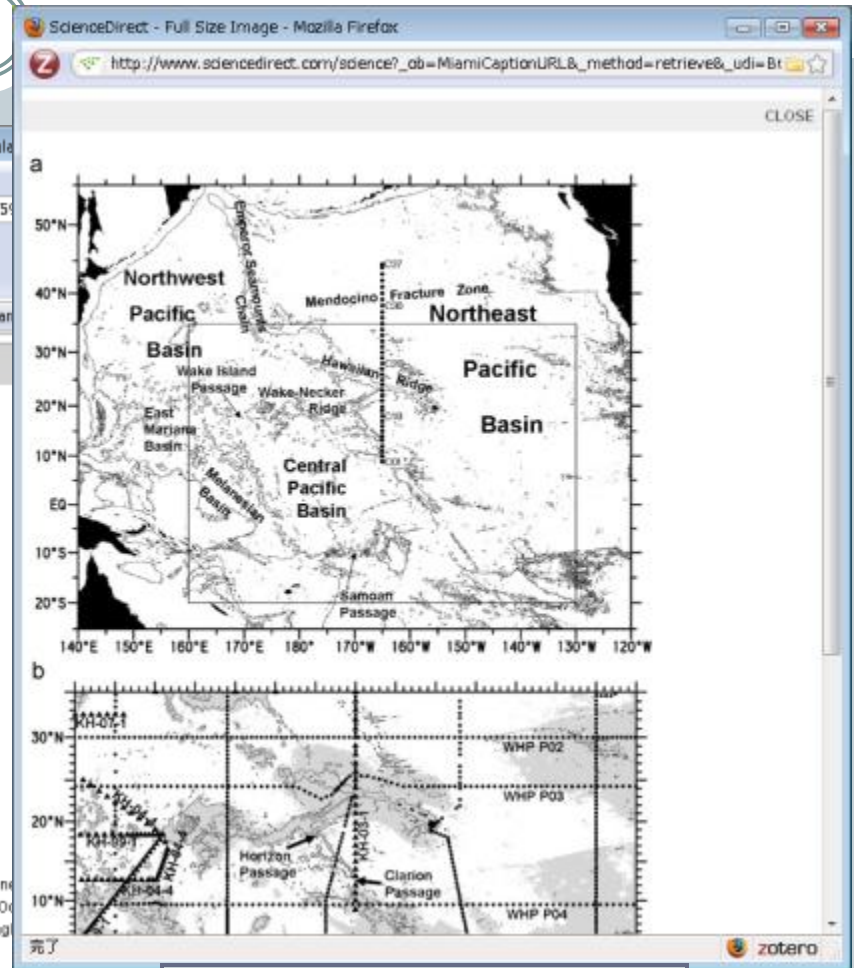
### Volume transport and distribution of deep circulation at 165°W in the North Pacific

Fumihito Kato and Masaki Kawabe

[Full-size image \(177K\)](#)

Fig. 1. (a) Map of the Pacific Ocean. Dots show CTD stations at 165°W on cruise KH-03-1 of the R.V. *Hakuho Maru* undertaken in June 2003. Rectangle indicates the study area, as shown in (b) and Fig. 5 and Fig. 6. (b) Locations of hydrographic stations of the World Ocean Database (crosses), cruises of the WOCE Hydrographic Programme (dots), and cruises undertaken by the R.V. *Hakuho Maru* (triangles). Thin lines show isobaths at a depth of 4000 m. Shading in (b) indicates regions shallower than 5000 m.

[View Within Article](#)



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# 学術情報事情収集の技 表をコピーする



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Table 1

Coefficients of adjustment in salinity, dissolved oxygen, and silica for each cruise or cruise leg

Section	Salinity	Oxygen	Silica
KH-03-1 leg2	0.0008	1.0116	0.9741
KH-04-4 leg1	-0.0002	0.9941	0.9859
KH-04-4 leg2	-0.0004	0.9898	0.9946
KH-05-4 leg1	0.0001	1.0020	0.9848
KH-07-1	-0.0002	0.9878	1.0174
KH-99-1 leg1	-0.0010	0.9811	No data
KH-99-1 leg2	-0.0017	0.9821	1.0040
WHP P02 2004 1	-0.0002	1.0037	0.9996
WHP P02 2004 2	-0.0005	1.0217	1.0029
WHP P03 1	0.0030	1.0003	0.9970
WHP P03 2	0.0036	0.9880	0.9967
WHP P04C	0.0009	0.9892	1.0000
WHP P04E	0.0001	0.9999	1.0007
WHP P04W	0.0012	1.0000	0.9976
WHP P13 1	-0.0008	1.0180	0.9886
WHP P13 2	0.0001	1.0094	0.9778
WHP P14N 1	0.0010	0.9992	0.9815
WHP P14N 2	0.0010	0.9856	0.9872

Section	Salinity	Oxygen	Silica
KH-03-1 leg2	0.0008	1.0116	0.9741
KH-04-4 leg1	-0.0002	0.9941	0.9859
KH-04-4 leg2	-0.0004	0.9898	0.9946
KH-05-4 leg1	0.0001	1.0020	0.9848
KH-07-1	-0.0002	0.9878	1.0174
KH-99-1 leg1	-0.0010	0.9811	No data
KH-99-1 leg2	-0.0017	0.9821	1.0040
WHP P02 2004 1	-0.0002	1.0037	0.9996
WHP P02 2004 2	-0.0005	1.0217	1.0029
WHP P03 1	0.0030	1.0003	0.9970
WHP P03 2	0.0036	0.9880	0.9967
WHP P04C	0.0009	0.9892	1.0000
WHP P04E	0.0001	0.9999	1.0007
WHP P04W	0.0012	1.0000	0.9976

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Article | Figures/Tables | **References** | PDF (1491 K)

doi:10.1016/j.dsr.2009.08.004  
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## Volume transport and distribution of deep circulation at 165°W in the North Pacific

Fumihiko Kato and Masaki Kawabe

### References

Akima, 1970 H. Akima, A new method of interpolation and smooth curve fitting based on local procedures, *Journal of the Association for Computing Machinery* **17** (1970), pp. 589–602. [Full Text via CrossRef](#)

Boyer et al., 2006 T.P. Boyer, J.I. Antonov, H.E. Garcia, D.R. Johnson, R.A. Locarnini, A.V. Mishonov, M.T. Pitcher, O.K. Baranova and I.V. Smolyar, World ocean database 2005. In: S. Levitus, Editor, *NOAA Atlas NESDIS 60*, US Government Printing Office, Washington, DC (2006), p. 190 DVDs.

Edmond et al., 1971 J.M. Edmond, Y. Chung and J.G. Schlater, Pacific bottom water: penetration east around Hawaii, *Journal of Geophysical Research* **76** (1971), pp. 8089–8097. [Full Text via CrossRef](#)

Ishizaki, 1994 H. Ishizaki, A simulation of the abyssal circulation in the North Pacific Ocean. Part I: flow field and comparison with observations, *Journal of Physical Oceanography* **24** (1994), pp. 1921–1939. [View Record in Scopus](#) | [Cited By in Scopus \(13\)](#)

Johnson et al., 2001 G.C. Johnson, P.E. Robbins and G.E. Hufford, Systematic adjustments of hydrographic sections for internal consistency, *Journal of Atmospheric and Oceanic Technology* **18** (2001), pp. 1234–1244. [Full Text via CrossRef](#) | [View Record in Scopus](#) | [Cited By in Scopus \(13\)](#)

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doi:10.1016/j.dsr.2009.08.004  
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## Volume transport and distribution of deep circulation at 165°W in the North Pacific

Fumihiko Kato<sup>a</sup> and Masaki Kawabe<sup>a</sup>

<sup>a</sup>Ocean Research Institute, The University of Tokyo, 1-15-1 Minamidai, Nakano-ku, Tokyo 164-8639, Japan

Received 14 October 2009; revised 14 August 2009; accepted 14 August 2009. Available online 14 August 2009.

### Abstract

Full-depth conductivity-temperature-depth-oxygen profiler (CTDO<sub>2</sub>) data at low latitudes in the western North Pacific in winter 1999 were analyzed with water-mass analysis and geostrophic calculations. The result shows that the deep circulation carrying the Lower Circumpolar Water (LCPW) bifurcates at 165°W. The deep circulation in the deep-water characterizes the southern region (10–24°N), central region (24–37°N), and northern region (north of 37°N). Deep water at temperatures below 1.15 °C and depths greater than 4000 dbar is highly stratified in the southern region, weakly stratified in the central region, and largely

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Volume transport and distribution of deep circulation at 165°W in the North Pacific

Deep Sea Research Part I: Oceanographic Research Papers, Volume 56, Issue 12, December 2009, Pages 2077-2087

Fumihiko Kato, Masaki Kawabe

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1. Deep-water circulation at low latitudes in the western North Pacific

Deep Sea Research Part I: Oceanographic Research Papers, Volume 50, Issue 5, May 2003, Pages 631-656

Masaki Kawabe, Shinzou Fujio, Daigo Yanagimoto

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2. Water masses and currents of deep circulation southwest of the Shatsky Rise in the western North Pacific

Deep Sea Research Part I: Oceanographic Research Papers, Volume 56, Issue 10, October 2009, Pages 1675-1687

Masaki Kawabe, Shinzou Fujio, Daigo Yanagimoto, Kiyoshi Tanaka

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# 学術情報事情収集の技

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ScienceDirect - *Geochimica et Cosmochimica Acta*: Interactions of biogenic opal, sediment and seawater in the Central Equatorial Pacific

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**Geochimica et Cosmochimica Acta**  
Volume 37, Issue 10, October 1973, Pages 2257-2266, IN1, 2267-2282

Font Size: [-] [+]

▶ Abstract    References    PDF (2250 K)

doi:10.1016/0016-7037(73)90103-8  
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**Interactions of biogenic opal, sediment and seawater in the Central Equatorial Pacific**

David C. Hurd<sup>a</sup>

<sup>a</sup>Department of Oceanography and Hawaii Institute of Geophysics, Honolulu, Hawaii 96822, U.S.A.

Received 4 December 1972; accepted 9 April 1973. Available online 31 March 2003.

**Abstract**

The solution rate of biogenic opal in near-surface sediments in the Central Equatorial Pacific is three to eight orders of magnitude lower than similar acid-cleaned samples. Iron, magnesium and calcium aluminosilicates may be the minerals which are forming on the surface of the opal and reducing its solution rate. The scale height of the system studied suggests that diffusive and not advective processes are primarily responsible for the removal of dissolved silica in sediments. Solution budget calculations for this area suggest that 90–99 per cent of the

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- A simple method for the rapid determination of dissolved silica in *Deep Sea Research Part A: Oceanographic Applications*
- Dissolved silica concentrations and reactions in *Marine Chemistry*
- Silica-alumina interactions in seawater *Marine Chemistry*
- Scavenged excess aluminum and its relationship to dissolved silica in *Geochimica et Cosmochimica Acta*

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ScienceDirect - Search Results: Interactions of biogenic opal, sediment and seawater in the Central Equatorial Pacific

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*Sedimentary Geology, In Press, Corrected Proof*, Available online 21 October 2009  
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