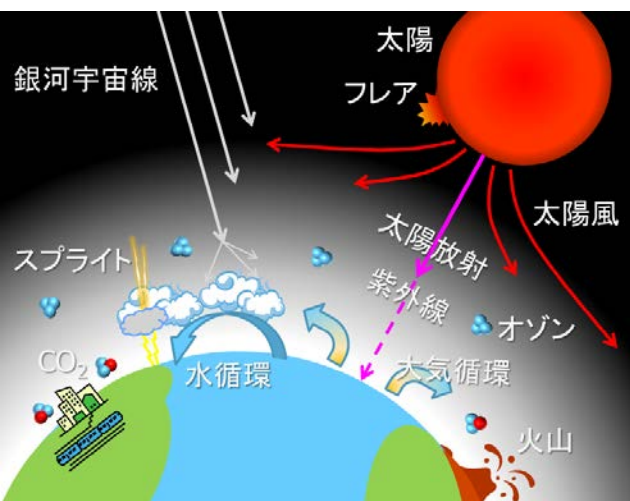


# 地球システムの総合理解を目指した 対話形式の可視化ツールについて



## Cross-Cutting Comparisons

This website provides facile means to compare various observation data. We hope this service will promote your cross-cutting researches.

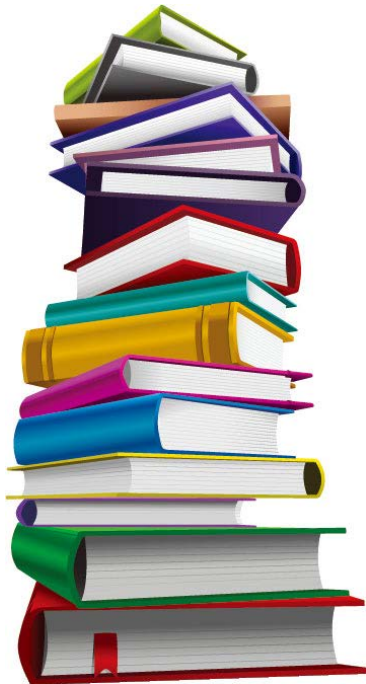


2015年2月13日

今井 弘二, 海老沢 研 (JAXA/ISAS)

# (自然)科学のあるある

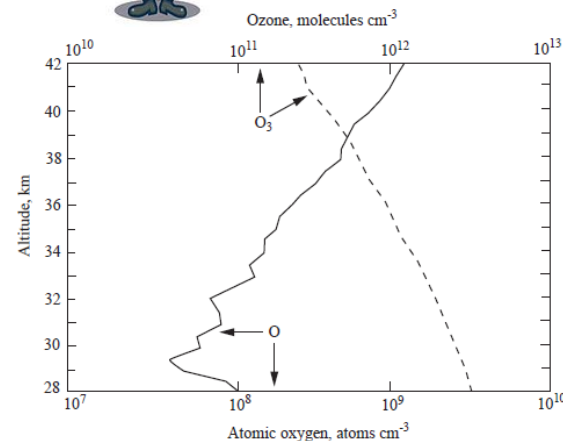
1. 参考書を開いて目的の図を見つけるのに時間がかかる。
2. 参考書の図のスケールはいつもいまいち・・・。
3. 自分で図を作るは面倒だ。
4. 図を誰かに説明(情報共有)するのは面倒だ。



どれだったかな？

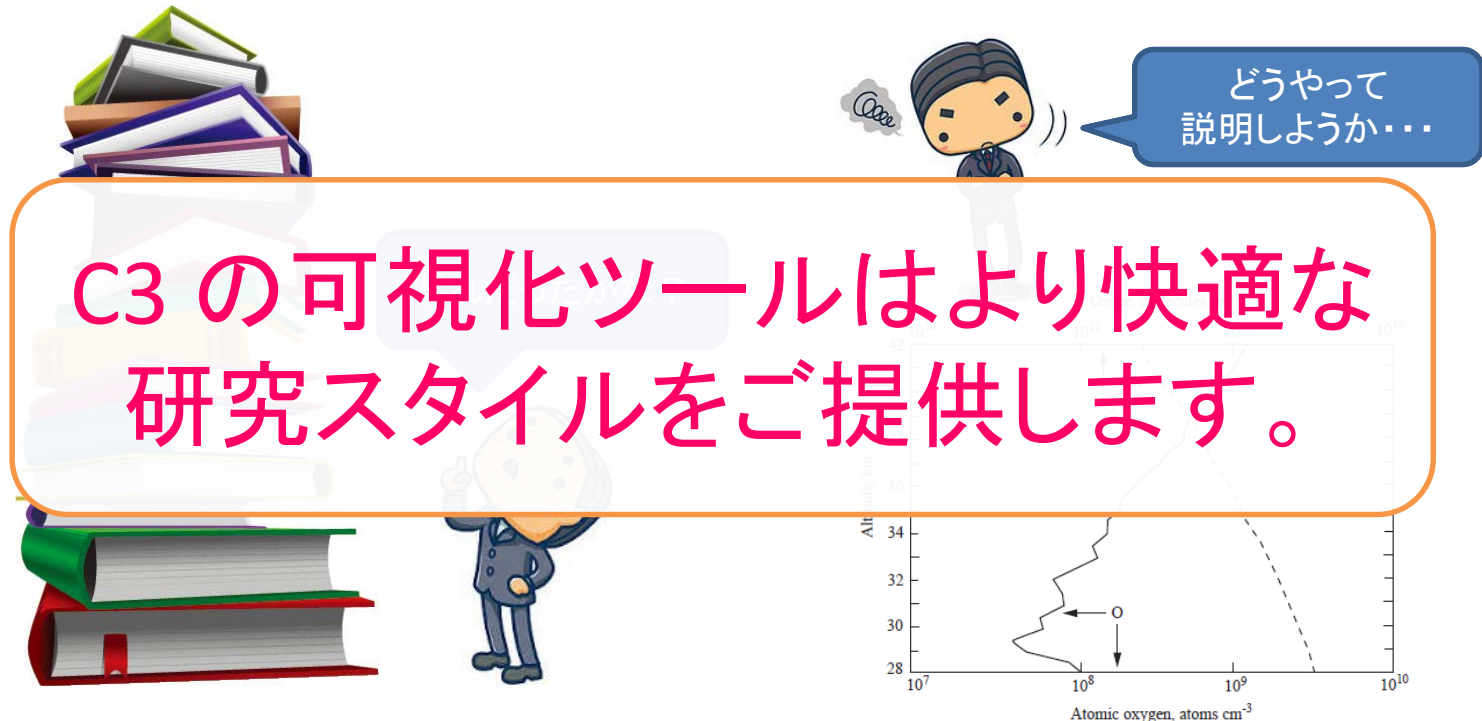


どうやって  
説明しようか・・・



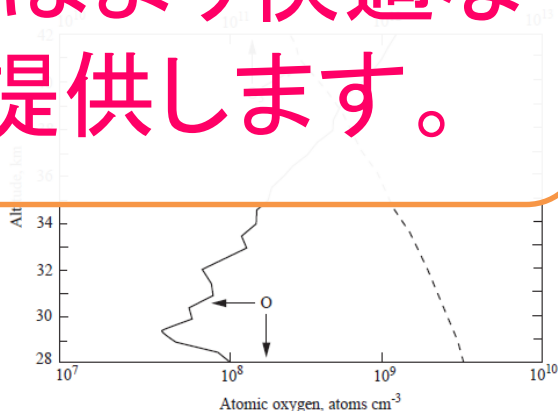
# (自然)科学のあるある

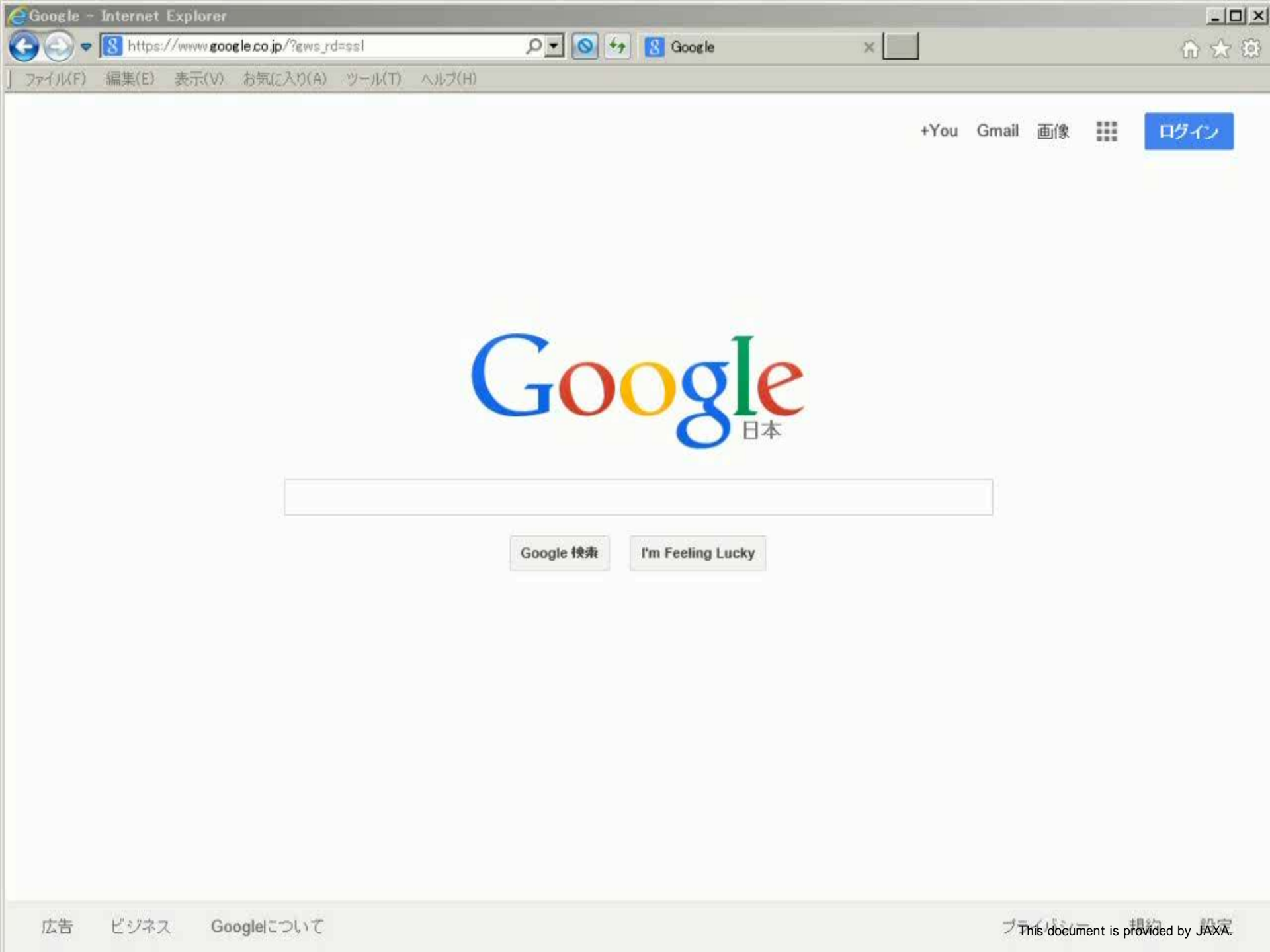
1. 参考書を開いて目的の図を見つけるのに時間がかかる。
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どうやって説明しようか・・・

**C3 の可視化ツールはより快適な研究スタイルをご提供します。**





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👉 STEP 1: Please choose one from the following data sets.

	<input type="radio"/> <a href="#">SORCE</a> ⓘ
	<input type="radio"/> <a href="#">ACE-FTS</a> ⓘ
	<input type="radio"/> <a href="#">SMILES</a> ⓘ
	<input type="radio"/> <a href="#">USGS</a> ⓘ

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ファイル(F) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)

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	<input type="radio"/> <a href="#">SORCE</a> ⓘ
	<input type="radio"/> <a href="#">ACE-FTS</a> ⓘ <input checked="" type="radio"/> <a href="#">SMILES</a> ⓘ
	<input type="radio"/> <a href="#">USGS</a> ⓘ

🔧 STEP 2: Please select the parameters of the reference data.

<b>Product</b>	<input type="radio"/> Temperature <input type="radio"/> BrO <input type="radio"/> CH <sub>3</sub> CN <input type="radio"/> ClO <input type="radio"/> HCl <input type="radio"/> HNO <sub>3</sub> <input type="radio"/> HO <sub>2</sub> <input type="radio"/> HOCl <input checked="" type="radio"/> O <sub>3</sub> <input type="radio"/> O <sup>17</sup> OO <input type="radio"/> <sup>17</sup> OOO <input type="radio"/> <sup>18</sup> OOO
<b>Version</b>	<input checked="" type="radio"/> 3.0
<b>Band</b> ⓘ	<input type="radio"/> A <input checked="" type="radio"/> B
<b>AOS</b> ⓘ	2

🔧 STEP 3: Please choose a figure type, then input the parameters.

<b>Figure type</b>	<div> <div>---</div> <div>Observation points</div> <div>Time series</div> <div>Altitude profile</div> <div>Global map</div> </div>
<input type="button" value="Reload"/>	

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ファイル(F) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)

various observation data. We hope this service will promote your cross-cutting researches.

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🔧 STEP 1: Please choose one from the following data sets.

	<input type="radio"/> <a href="#">SORCE</a> ⓘ
	<input type="radio"/> <a href="#">ACE-FTS</a> ⓘ <input checked="" type="radio"/> <a href="#">SMILES</a> ⓘ
	<input type="radio"/> <a href="#">USGS</a> ⓘ

🔧 STEP 2: Please select the parameters of the reference data.

<b>Product</b>	<input type="radio"/> Temperature <input type="radio"/> BrO <input type="radio"/> CH <sub>3</sub> CN <input type="radio"/> ClO <input type="radio"/> HCl <input type="radio"/> HNO <sub>3</sub> <input type="radio"/> HO <sub>2</sub> <input type="radio"/> HOCl <input checked="" type="radio"/> O <sub>3</sub> <input type="radio"/> O <sup>17</sup> OO <input type="radio"/> <sup>17</sup> OOO <input type="radio"/> <sup>18</sup> OOO
<b>Version</b>	<input checked="" type="radio"/> 3.0
<b>Band</b> ⓘ	<input type="radio"/> A <input checked="" type="radio"/> B
<b>AOS</b> ⓘ	2

🔧 STEP 3: Please choose a figure type, then input the parameters.

<b>Figure type</b>	<div> <div>---</div> <div> Observation points  Time series  Altitude profile  Global map </div> </div>
<b>Reload</b>	

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	<input type="radio"/> <a href="#">ACE-FTS</a> ⓘ <input checked="" type="radio"/> <a href="#">SMILES</a> ⓘ
	<input type="radio"/> <a href="#">USGS</a> ⓘ

🔧 STEP 2: Please select the parameters of the reference data.

<b>Product</b>	<input type="radio"/> Temperature <input type="radio"/> BrO <input type="radio"/> CH <sub>3</sub> CN <input type="radio"/> ClO
	<input type="radio"/> HCl <input type="radio"/> HNO <sub>3</sub> <input type="radio"/> HO <sub>2</sub> <input type="radio"/> HOCl
	<input checked="" type="radio"/> O <sub>3</sub> <input type="radio"/> O <sup>17</sup> OO <input type="radio"/> <sup>17</sup> OOO <input type="radio"/> <sup>18</sup> OOO
<b>Version</b>	<input checked="" type="radio"/> 3.0
<b>Band</b> ⓘ	<input type="radio"/> A <input checked="" type="radio"/> B
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	<input type="radio"/> <a href="#">SMILES</a> ⓘ
	<input type="radio"/> <a href="#">USGS</a> ⓘ

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# Comparisons

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🔧 STEP 1: Please choose one from the following data sets.

	<input type="radio"/> <a href="#">SORCE</a> ⓘ
	<input type="radio"/> <a href="#">ACE-FTS</a> ⓘ
	<input type="radio"/> <a href="#">SMILES</a> ⓘ
	<input checked="" type="radio"/> <a href="#">USGS</a> ⓘ

🔧 STEP 2: Please select the parameters of the reference data.

**Product** ☒ Earthquake ⓘ

🔧 STEP 3: Please choose a figure type, then input the parameters.

**Figure type**

undefined

Earthquake map

Focal depth

🔧 STEP 4: Please click on the "Plot" button to make a chart.

*\*It may take several tens of seconds depending on the setting.*

[Plot](#)









[Reload](#)


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	<input type="radio"/> <a href="#">SORCE</a> 
	<input type="radio"/> <a href="#">ACE-FTS</a> 
	<input type="radio"/> <a href="#">SMILES</a> 
	<input checked="" type="radio"/> <a href="#">USGS</a> 

 STEP 2: Please select the parameters of the reference data.

<b>Product</b>	<input checked="" type="radio"/> Earthquake 
----------------	--

 STEP 3: Please choose a figure type, then input the parameters.

<b>Figure type</b>	<input type="text" value="Focal depth"/> 
<b>Period</b>	From <input type="text" value="2010/01/01"/>  to <input type="text" value="2010/03/01"/> 
<b>Latitude</b>	From <input type="text" value="-90"/> to <input type="text" value="90"/> °
<b>Longitude</b>	From <input type="text" value="-180"/> to <input type="text" value="180"/> °
<b>Local time</b>	From <input type="text" value="0"/> to <input type="text" value="24"/> h
<b>Magnitude</b>	From <input type="text" value="0"/> to <input type="text" value="10"/> <input checked="" type="checkbox"/> M5-6 <input checked="" type="checkbox"/> M6-7 <input checked="" type="checkbox"/> M7-8 <input checked="" type="checkbox"/> M8-9 <input type="button" value="Clear"/>
	<small>*The only events with magnitude 5 and over are currently available on C3.</small>
<b>Depth</b>	From <input type="text" value="0"/> to <input type="text" value="1000"/> km
<b>Option</b>	<input type="checkbox"/> No title <input type="checkbox"/> No subtitle (selection criteria) <input type="checkbox"/> <a href="#">Dagik Earth</a> image format 
	<input type="button" value="Clear"/>

 STEP 4: Please click on the "Plot" button to make a chart.

*\*It may take several tens of seconds depending on the setting.*



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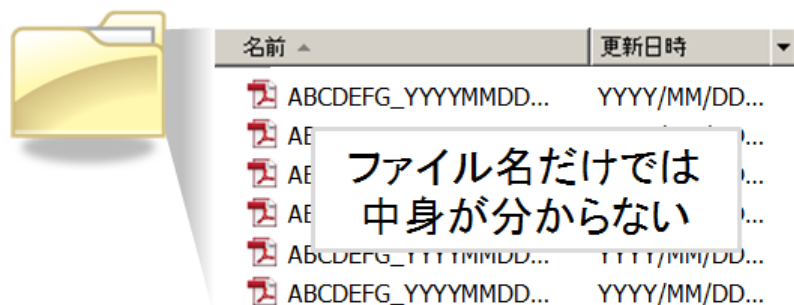
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# C3の利用によって

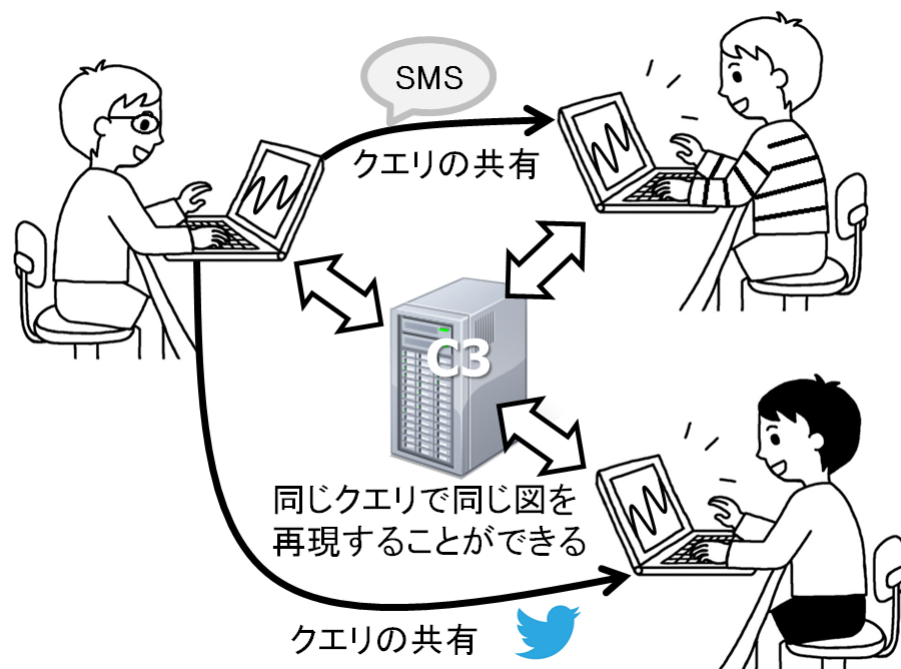
- ☆ 本棚の参考書から目的の図を探すよりも早く
- ☆ スケール調整が自在な図の作成が可能！
- ☆ クエリで多様な研究スタイルを提供！



- ・ 紫外線量の経年変化  
2000年1月1日から10年間の紫外線量の経年  
<http://darts.isas.jaxa.jp/C3/cgi-bin/C3.cgi?re>  
➤ 10年間で約5%の増加が見られる。

クエリなら説明文と共に  
文書ファイルに一元管理できる

- ・ 日食時の中間圏オゾンの変動  
オゾンの増幅を示した様子を示した時系列図  
<http://darts.isas.jaxa.jp/C3/cgi-bin/C3.cgi?re>



# C3の特徴

- ☆ ライセンスの必要なし！
- ☆ インストールする必要なし！
- ☆ マニュアルを読む必要なし！

必要なのはネット環境のみ

ISAS C3

検索



謝辞：

本プロジェクトは、宇宙航空研究開発機構・宇宙科学研究所、科学衛星運用・データ利用センター（C-SODA）、京都大学生存圏研究所（RISH）・生存圏科学萌芽研究からの助成を受けて実施しております。ここに感謝の意を表します。