



# IUGONET Type-A の使い方

平成28年10月20日  
場所：国立極地研究所

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No.	区分	時間	ねらい
1.	説明	5分	IUGONET Type-A とは
2.	基本編	15分	データを検索する、データについての情報を得る
3.	実践編	10分	データを詳細に検索する、解析手法を得る、実際に解析する
4.	質疑応答	10分	

## 1.1. メタデータDBの外観

URL: <http://search.iugonet.org/>



The screenshot shows the IUGONET DataSet search interface. At the top, there is a banner with the IUGONET logo and the text "Inter-university Upper atmosphere Global Observation NETwork". Below the banner, there is a navigation bar with links for "UDAS web Available!", "Rules of the Road", and "About US". The main section is titled "IUGONET DataSet" and features a search form. The form includes a table with two columns: "Instrument Type" and "Observed Region". The "Instrument Type" column lists various instruments such as AKEBONO, CHAMP, SMART (Telescope), DST (Telescope), FMT (Telescope), Refractor (Telescope), Muon (Telescope), Geomagnetic Indices, WDC Geomag., Kyoto, Magnetometer (KMO), Magnetometer, Induction, MAGDAS, MM210, AWS, All Sky Imager, EA Radar, MU Radar, MF Radar, MW Radar, X-Band Radar, GPS Receiver, Na-Lidar, EISCAT, OMTI, SuperDARN, VHF Radar, VLF/ELF, Ionosonde, Radiosonde, BL/LT/WP Radar, Riometer, and Others. The "Observed Region" column is currently empty. Below the table, there are input fields for "Keyword:" and "Timespan:" (with a "To" dropdown), a "Set Detail" link, and a "Search" button. At the bottom, there is an "Information" section titled "Pre-Open: IUGONET New System" which contains a list of new functions and a schedule for the official version.

**IUGONET DataSet**

[LIST](#) [MAP](#)

Instrument Type	Observed Region
Satellite:	
<input type="checkbox"/> <a href="#">AKEBONO</a>	<input type="checkbox"/> <a href="#">CHAMP</a>
Ground-Based:	
<input type="checkbox"/> <a href="#">SMART (Telescope)</a>	<input type="checkbox"/> <a href="#">DST (Telescope)</a>
<input type="checkbox"/> <a href="#">Geomagnetic Indices</a>	<input type="checkbox"/> <a href="#">WDC Geomag., Kyoto</a>
<input type="checkbox"/> <a href="#">MAGDAS</a>	<input type="checkbox"/> <a href="#">MM210</a>
<input type="checkbox"/> <a href="#">MU Radar</a>	<input type="checkbox"/> <a href="#">MF Radar</a>
<input type="checkbox"/> <a href="#">Na-Lidar</a>	<input type="checkbox"/> <a href="#">EISCAT</a>
<input type="checkbox"/> <a href="#">VLF/ELF</a>	<input type="checkbox"/> <a href="#">Ionosonde</a>
<input type="checkbox"/> <a href="#">Others</a>	
<input type="checkbox"/> <a href="#">FMT (Telescope)</a>	<input type="checkbox"/> <a href="#">Magnetometer (KMO)</a>
<input type="checkbox"/> <a href="#">Refractor (Telescope)</a>	<input type="checkbox"/> <a href="#">Magnetometer</a>
<input type="checkbox"/> <a href="#">Muon (Telescope)</a>	<input type="checkbox"/> <a href="#">Induction</a>
<input type="checkbox"/> <a href="#">All Sky Imager</a>	<input type="checkbox"/> <a href="#">EA Radar</a>
<input type="checkbox"/> <a href="#">X-Band Radar</a>	<input type="checkbox"/> <a href="#">GPS Receiver</a>
<input type="checkbox"/> <a href="#">SuperDARN</a>	<input type="checkbox"/> <a href="#">VHF Radar</a>
<input type="checkbox"/> <a href="#">BL/LT/WP Radar</a>	<input type="checkbox"/> <a href="#">Riometer</a>

Keyword:

Timespan:  To  [Set Detail](#)

**Information**

**Pre-Open: IUGONET New System**

The IUGONET System has been renewed in Oct. 2016. The new functions are

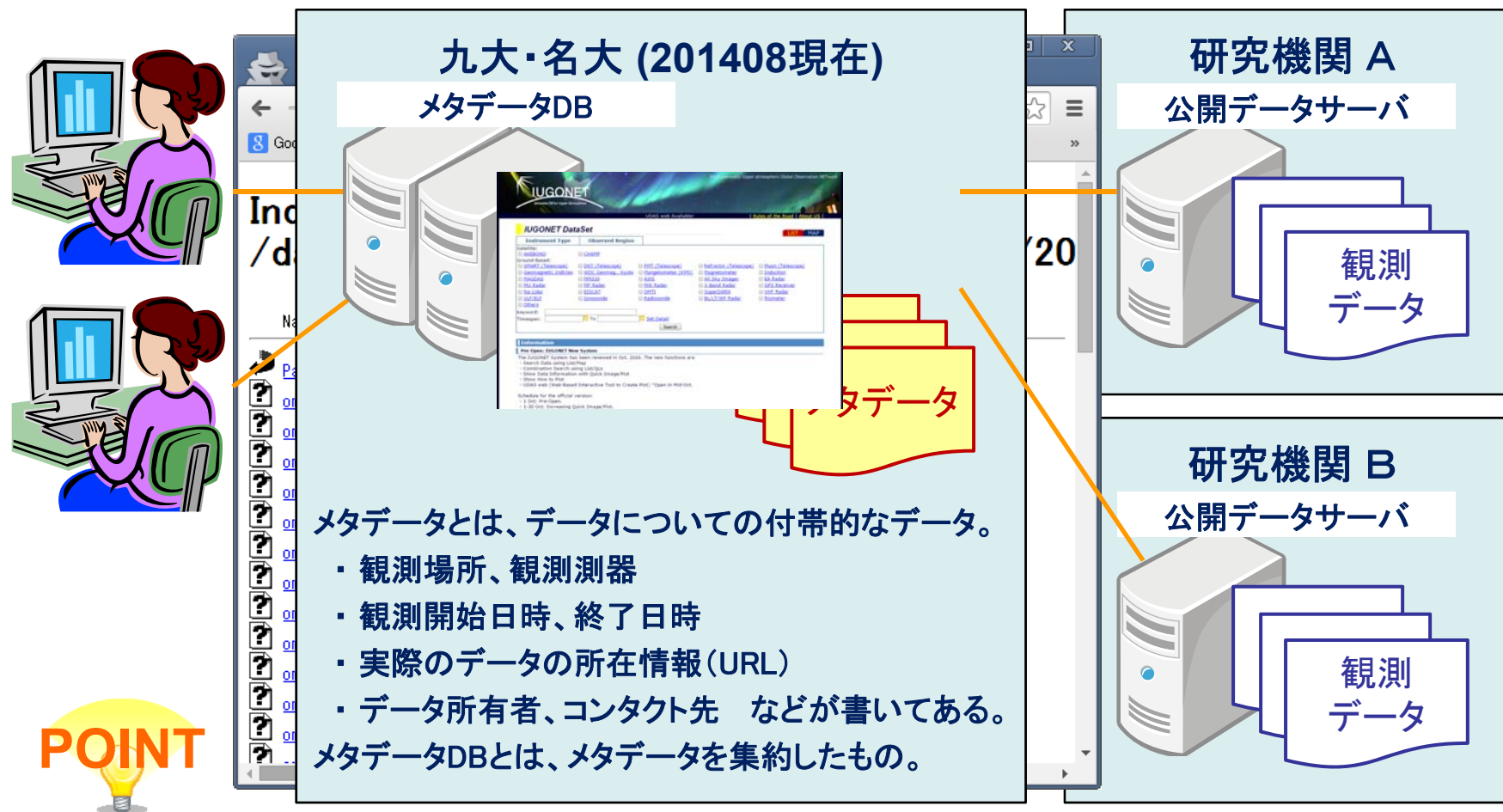
- Search Data using List/Map
- Combination Search using List/QLs
- Show Data Information with Quick Image/Plot
- Show How to Plot
- UDAS web (Web-Based Interactive Tool to Create Plot) \*Open in Mid-Oct.

Schedule for the official version:

- 1 Oct: Pre-Open.
- 1-30 Oct: Increasing Quick Image/Plot.

2016年10月に新システムに切替えました

## 1.2. メタデータ、メタデータDBとは？



- 実データ(観測データ等)についての情報を、メタデータを使って知ることができる。
- メタデータを介して、実際に観測データに到達することができる。

# 1.3. IUGONET Type-A ? UDAS ?

	IUGONET Type-A	UDAS
目的	データを <u>発見する、知る、簡易解析する</u>	データを <u>詳細に解析する</u>
使うソフトウェア	インターネットブラウザ	SPEDAS
知ることのできる情報	地上観測データの詳細な情報 <ul style="list-style-type: none"> <li>- 観測データの説明</li> <li>- 観測データの所在情報</li> <li>- 観測日時</li> <li>- 観測場所(緯度、経度)</li> <li>- 観測所情報、観測機器情報</li> <li>- コンタクト先</li> <li>- <u>解析方法</u> etc</li> </ul> 簡易プロット	詳細プロット <ul style="list-style-type: none"> <li>- 物理量の時間的变化、相関</li> </ul>
扱うデータ	デジタルデータ、 <u>アナログデータ</u>	デジタルデータ

IUGONET Type-AとUDASは相互に連携している

IUGONET Type-A のバックグラウンドでSPEDASが稼働

インターネットブラウザを起動して、  
下記のURLにアクセスしてください。  
<http://search.iugonet.org/>



➤ ユーザ登録は不要

誰でも自由に、メタデータDBを使い、メタデータを検索・参照することができます。もちろん無料。

➤ 地上観測データを使う場合は、その提供機関の指示に従う

メタデータの Acknowledgement 欄に記載されている事項を守る

(例) ・ 事前にコンタクトをください

- ・ 論文のリファレンスあるいは謝辞に記述してください
- ・ 非営利の研究目的に限ります など

## 2.1. 検索(リスト)

**IUGONET DataSet**

**タブを選択** (Instrument Type / Observed Region)

**LISTを選択** (LIST / MAP)

Instrument Type	Observed Region
<b>Satellite:</b> <input type="checkbox"/> <a href="#">AKEBONO</a> <input type="checkbox"/> <a href="#">CHAMP</a>	
<b>Ground-Based:</b>	
<input type="checkbox"/> <a href="#">SMART (Telescope)</a> <input type="checkbox"/> <a href="#">Geomagnetic Indices</a> <input type="checkbox"/> <a href="#">MAGDAS</a> <input type="checkbox"/> <a href="#">MU Radar</a> <input type="checkbox"/> <a href="#">Na-Lidar</a> <input type="checkbox"/> <a href="#">VLF/ELF</a> <input type="checkbox"/> <a href="#">Others</a>	<input type="checkbox"/> <a href="#">DST (Telescope)</a> <input type="checkbox"/> <a href="#">WDC Geomag., Kyoto</a> <input type="checkbox"/> <a href="#">MM210</a> <input type="checkbox"/> <a href="#">MF Radar</a> <input type="checkbox"/> <a href="#">EISCAT</a> <input type="checkbox"/> <a href="#">Ionosonde</a>
<input type="checkbox"/> <a href="#">FMT (Telescope)</a> <input type="checkbox"/> <a href="#">Magnetometer (KMO)</a> <input type="checkbox"/> <a href="#">AWS</a> <input type="checkbox"/> <a href="#">MW Radar</a> <input type="checkbox"/> <a href="#">OMTI</a> <input type="checkbox"/> <a href="#">Radiosonde</a>	<input type="checkbox"/> <a href="#">Refractor (Telescope)</a> <input type="checkbox"/> <a href="#">Magnetometer</a> <input type="checkbox"/> <a href="#">All Sky Imager</a> <input type="checkbox"/> <a href="#">X-Band Radar</a> <input type="checkbox"/> <a href="#">SuperDARN</a> <input type="checkbox"/> <a href="#">BL/LT/WP Radar</a>
	<input type="checkbox"/> <a href="#">Muon (Telescope)</a> <input type="checkbox"/> <a href="#">Induction</a> <input type="checkbox"/> <a href="#">EA Radar</a> <input type="checkbox"/> <a href="#">GPS Receiver</a> <input type="checkbox"/> <a href="#">VHF Radar</a> <input type="checkbox"/> <a href="#">Riometer</a>

Keyword:

Timespan:  To  [Set Detail](#)

**カテゴリを選択** (Instrument Type / Observed Region)

単一検索: カテゴリのアンカーをクリック: 単一検索  
 複合検索: チェックボックスを選択してSearchボタンをクリック



カテゴリを選択

The screenshot displays the IUGONET search interface. On the left, a sidebar titled 'INSTRUMENT TYPE' lists various observation instruments with checkboxes. The 'Satellite' section includes 'All SER (C/N Panel) N', 'AKEBONO', and 'CHAMP'. The 'Ground-Based' section includes 'SMART (Telescope)', 'DST (Telescope)', 'FMT (Telescope)', 'Refractor (Telescope)', 'Muon (Telescope)', 'Geomagnetic Indices', 'WDC Geomag., Kyoto', 'Magnetometer (KMO)', 'Magnetometer', 'Induction', 'MAGDAS', 'MM210', 'AWS', 'All Sky Imager', 'EA Radar', 'MU Radar', 'MF Radar', 'MW Radar', 'X-Band Radar', 'GPS Receiver', 'Na-Lidar', 'EISCAT', and 'OMTI'. The main area shows a world map with numerous pink flower icons representing observation stations. A callout box points to a specific location on the map, indicating that the pin's position shows the latitude and longitude of the observation station. The top right has tabs for 'LIST' and 'MAP', with 'MAP' selected. Below the tabs are buttons for '地図' (Map) and '航空写真' (Aerial Photo). The bottom right shows a scale bar for 1000 km and a '利用規約' (Terms of Use) link.

LIST MAP

地図 航空写真

+

-

データを選択  
ピンの位置は観測所の緯度経度を示す

INSTRUMENT TYPE

- ☒ All SER (C/N Panel) N
- ☒ Satellite
- ☒ AKEBONO
- ☒ CHAMP
- ☒ Ground-Based
- ☒ SMART (Telescope)
- ☒ DST (Telescope)
- ☒ FMT (Telescope)
- ☒ Refractor (Telescope)
- ☒ Muon (Telescope)
- ☒ Geomagnetic Indices
- ☒ WDC Geomag., Kyoto
- ☒ Magnetometer (KMO)
- ☒ Magnetometer
- ☒ Induction
- ☒ MAGDAS
- ☒ MM210
- ☒ AWS
- ☒ All Sky Imager
- ☒ EA Radar
- ☒ MU Radar
- ☒ MF Radar
- ☒ MW Radar
- ☒ X-Band Radar
- ☒ GPS Receiver
- ☒ Na-Lidar
- ☒ EISCAT
- ☒ OMTI

地図データ ©2016 画像 ©2016 NASA, TerraMetrics 1000 km 利用規約




## 2.1. 検索結果一覧(リスト)

Text: 検索結果を文字で一覧表示する

Plot: 検索結果をプロット画像で一覧表示する(プロットがないものは表示されない)





Search results:

☒ Text ☐ Plot

 Contains Summary Plot ☐ : Create Plot (Using [UDAS-Web](#))

### Ground-Based

#### Geomagnetic Indices

Numerical Data [Geomagnetic Auroral Electrojet Index AE](#)   
 Numerical Data [Geomagnetic Auroral Electrojet Index Provisional AE](#)   
 Numerical Data [Geomagnetic Auroral Electrojet Index Real-time AE](#) ☐  
 Numerical Data [Geomagnetic Equatorial Dst Index](#)   
 Numerical Data [Geomagnetic Equatorial Dst Index Provisional](#)   
 Numerical Data [Geomagnetic Equatorial Dst Index Quick Look](#) ☐  
 Numerical Data [Mid-latitude Geomagnetic Indices ASY and SYM](#)

このアイコンはQuickLook画像ありを示す

#### MM210

Numerical Data [MM210 Adelaide magnetometer 1 min resolution data distributed by ERG-SC](#)   
 Numerical Data [MM210 Biak magnetometer 1 min resolution data distributed by ERG-SC](#)   
 Numerical Data [MM210 Birdsville magnetometer 1 min resolution data distributed by ERG-SC](#)   
 Numerical Data [MM210 Canberra magnetometer 1 min resolution data distributed by ERG-SC](#)   
 Numerical Data [MM210 Chichijima magnetometer 1 min resolution data distributed by ERG-SC](#)   
 Numerical Data [MM210 Chokurdakh magnetometer 1 min resolution data distributed by ERG-SC](#)   
 Numerical Data [MM210 Dalby magnetometer 1 min resolution data distributed by ERG-SC](#)   
 Numerical Data [MM210 Darwin magnetometer 1 min resolution data distributed by ERG-SC](#)   
 Numerical Data [MM210 Ewa Beach magnetometer 1 min resolution data distributed by ERG-SC](#)   
 Numerical Data [MM210 Guam magnetometer 1 min resolution data distributed by ERG-SC](#)   
 Numerical Data [MM210 Kagoshima magnetometer 1 min resolution data distributed by ERG-SC](#)   
 Numerical Data [MM210 Katanning magnetometer 1 min resolution data distributed by ERG-SC](#)   
 Numerical Data [MM210 Kotel'nyy magnetometer 1 min resolution data distributed by ERG-SC](#)   
 Numerical Data [MM210 Kototabang magnetometer 1 min resolution data distributed by ERG-SC](#)   
 Numerical Data [MM210 Learmonth magnetometer 1 min resolution data distributed by ERG-SC](#) 

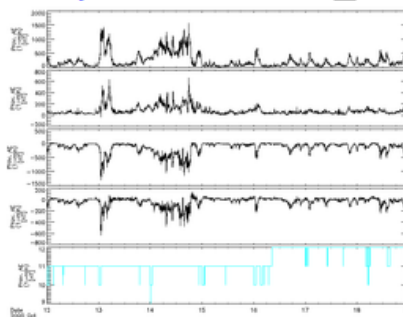
## 2.1. 検索結果一覧(プロット)

### Geomagnetic Indices

Numerical Data [Geomagnetic Auroral Electrojet Index AE](#)

No Data

Numerical Data [Geomagnetic Auroral Electrojet Index Provisional AE](#)

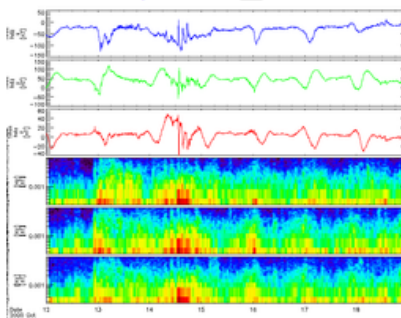


Numerical Data [Geomagnetic Equatorial Dst Index](#)

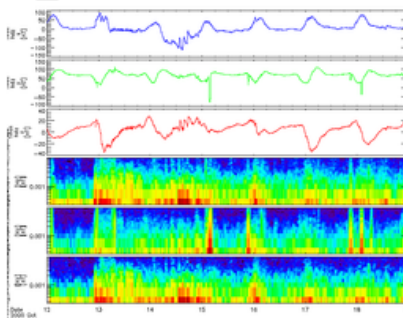
No Data

### MM210

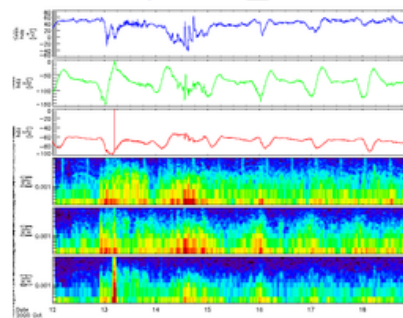
Numerical Data [MM210 Adelaide magnetometer 1 min resolution data distributed by ERG-SC](#)



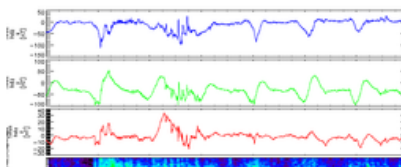
Numerical Data [MM210 Biak magnetometer 1 min resolution data distributed by ERG-SC](#)



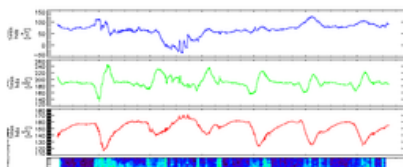
Numerical Data [MM210 Birdsville magnetometer 1 min resolution data distributed by ERG-SC](#)



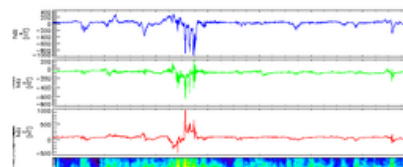
Numerical Data [MM210 Canberra magnetometer 1 min resolution data distributed by ERG-SC](#)



Numerical Data [MM210 Chichijima magnetometer 1 min resolution data distributed by ERG-SC](#)

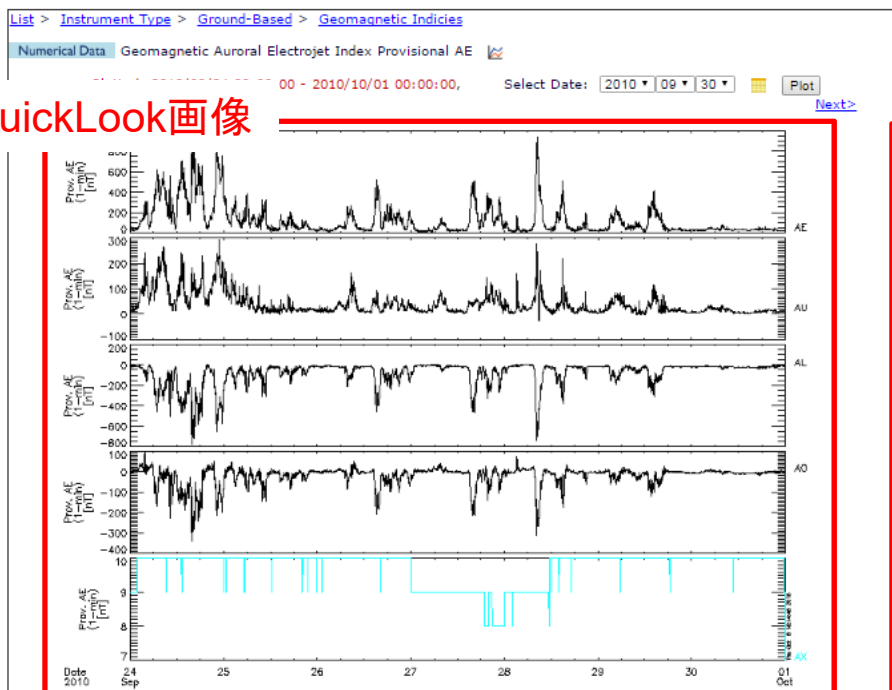


Numerical Data [MM210 Chokurdakh magnetometer 1 min resolution data distributed by ERG-SC](#)



## 2.1. データ詳細

### QuickLook画像



**Description:**  
The geomagnetic auroral electrojet index at 1-min time resolution, derived at World Data Center for Geomagnetism, Kyoto, Kyoto University.  
**Acknowledgement:** If the data are used in publications and presentations, the data suppliers and the WDC for Geomagnetism, Kyoto must properly be acknowledged.  
**ReleaseDate:** 2011-02-17T07:30:00

**Contact (GeneralContact):**  
Toshihiko Iyemori, Data Analysis Center for Geomagnetism and Space Magnetism, Graduate School of Science, Kyoto University / World Data Center (WDC) for Geomagnetism, Kyoto, iyemori@kugi.kyoto-u.ac.jp  
**Contact (MetadataContact):**  
Masahito Nose, Data Analysis Center for Geomagnetism and Space Magnetism, Graduate School of Science, Kyoto University / World Data Center (WDC) for Geomagnetism, Kyoto, nose@kugi.kyoto-u.ac.jp

**AccessInformation:**  
Acknowledgement: If the data are used in publications and presentations, the data suppliers and the WDC for Geomagnetism, Kyoto must properly be acknowledged.  
URL: <http://wdc.kugi.kyoto-u.ac.jp/wdc/Sec3.html>  
Availability: Online  
Access Rights: Open  
Format: Text

### データについての説明、注釈

### コンタクト先情報

### その他データについての詳細情報

**AccessInformation:**  
Acknowledgement: If the data are used in publications and presentations, the data suppliers and the WDC for Geomagnetism, Kyoto must properly be acknowledged.  
URL: <http://wdc.kugi.kyoto-u.ac.jp/wdc/Sec3.html>  
Availability: Online  
Access Rights: Open  
Format: Text

**Processing Level:** Calibrated  
**Measurement Type:** ActivityIndex

**Time Span:**  
StartDate: 1989-03-01T00:00:00  
StopDate: 2010-09-30T23:59:59

**Observed Region:** Earth.Surface

**Keywords:** AE INDEX

**Instrument:**  
Name: Magnetometers at Abisko (ABK)  
Description: Information about magnetometers at Abisko (ABK)  
**Contact (GeneralContact):**  
Toshihiko Iyemori, Data Analysis Center for Geomagnetism and Space Magnetism, Graduate School of Science, Kyoto University / World Data Center (WDC) for Geomagnetism, Kyoto, iyemori@kugi.kyoto-u.ac.jp  
**Contact (MetadataContact):**  
Masahito Nose, Data Analysis Center for Geomagnetism and Space Magnetism, Graduate School of Science, Kyoto University / World Data Center (WDC) for Geomagnetism, Kyoto, nose@kugi.kyoto-u.ac.jp  
**InstrumentType:** Magnetometer  
**InvestigationName:** -

**Observatory:**  
Name: Abisko Geomagnetic Observatory (ABK)  
Description: Abisko (ABK), Sponsoring Country: Sweden, Operating Span: 1921-  
**Contact (GeneralContact):**  
Toshihiko Iyemori, Data Analysis Center for Geomagnetism and Space Magnetism, Graduate School of Science, Kyoto University / World Data Center (WDC) for Geomagnetism, Kyoto, iyemori@kugi.kyoto-u.ac.jp  
**Contact (MetadataContact):**  
Masahito Nose, Data Analysis Center for Geomagnetism and Space Magnetism, Graduate School of Science, Kyoto University / World Data Center (WDC) for Geomagnetism, Kyoto, nose@kugi.kyoto-u.ac.jp  
**Location:**  
ObservatoryRegion: Earth  
CoordinateSystemName: GEO  
Latitude: 68.358  
Longitude: 18.823

**Observed Data:**

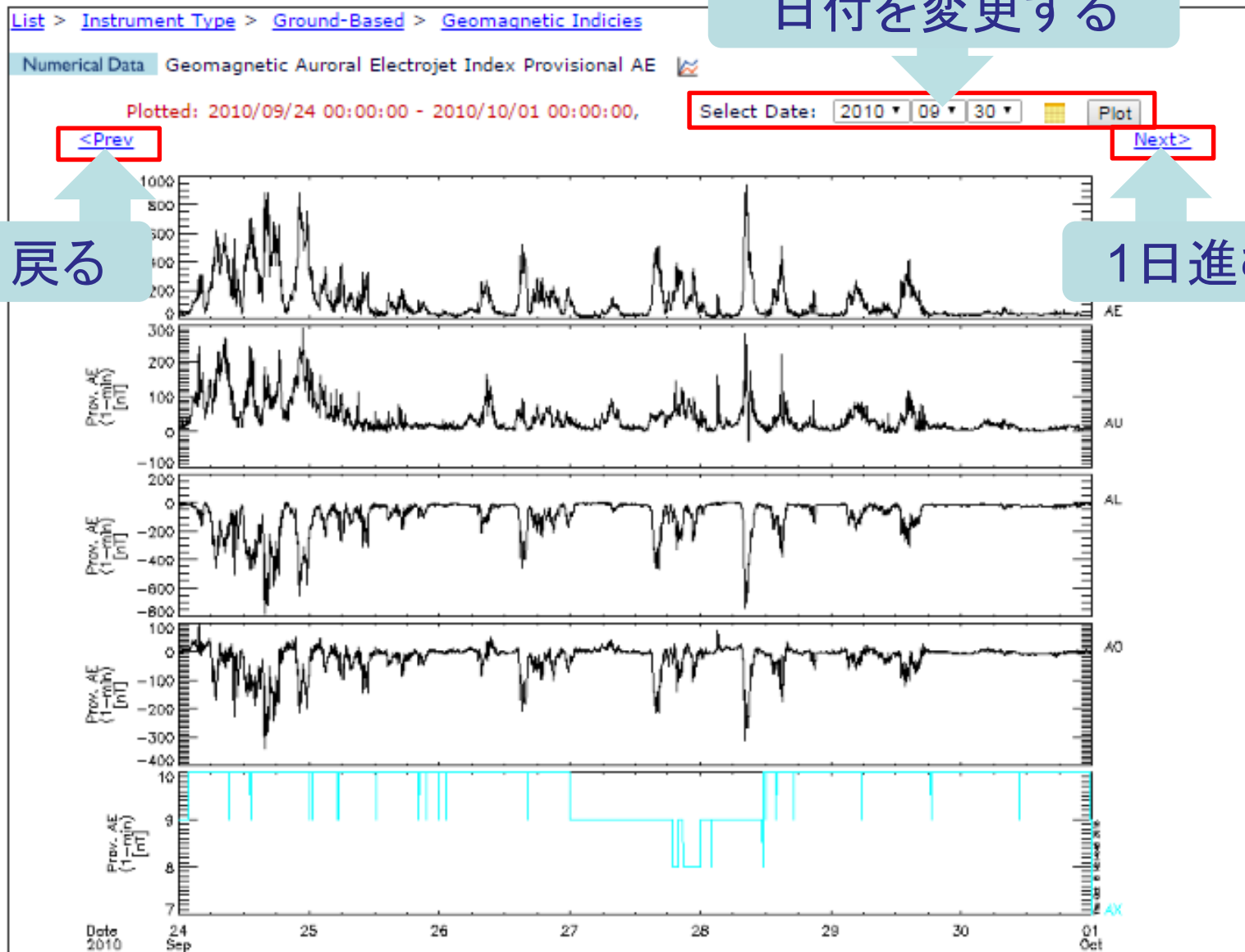
**How to Plot (SPEDAS-CUI):**

```
IDL> thm_init
THEMIS> timespan, ['2010-09-24 00:00:00', '2010-10-01 00:00:00']
THEMIS> iug_load_gmag_wdc, site='ae', level='provisional'
THEMIS> split_vec, 'wdc_mag_ae_prov_1min'
THEMIS> tplot, ['wdc_mag_ae_prov_1min_0', 'wdc_mag_ae_prov_1min_1', 'wdc_mag_ae_prov_1min_2', 'wdc_mag_ae_prov_1min_3', 'wdc_mag_ae_prov_1min_4']
```

**Original Metadata Files:**  
PT1M\_provisional.xml: [Geomagnetic Auroral Electrojet Index Provisional AE](http://wdc.kugi.kyoto-u.ac.jp/wdc/Sec3.html)

## 2.1. データ詳細 プロットの日付変更

日付を変更する



## 2.2. 詳細検索 日時指定

**IUGONET DataSet**

**タブを選択** (LIST, MAP)

**LIST** **MAP**

Instrument Type	Observed Region
<b>Satellite:</b> <input type="checkbox"/> <a href="#">AKEBONO</a> <input type="checkbox"/> <a href="#">CHAMP</a>	
<b>Ground-Based:</b> <div> <input type="checkbox"/> <a href="#">SMART (Telescope)</a>    <input type="checkbox"/> <a href="#">DST (Telescope)</a>    <input type="checkbox"/> <a href="#">FMT (Telescope)</a>    <input type="checkbox"/> <a href="#">Refractor (Telescope)</a>    <input type="checkbox"/> <a href="#">Muon (Telescope)</a>  <input type="checkbox"/> <a href="#">Geomagnetic Indices</a>    <input type="checkbox"/> <a href="#">WDC Geomag., Kyoto</a>    <input type="checkbox"/> <a href="#">Magnetometer (KMO)</a>    <input type="checkbox"/> <a href="#">Magnetometer</a>    <input type="checkbox"/> <a href="#">Induction</a>  <input type="checkbox"/> <a href="#">MAGDAS</a>    <input type="checkbox"/> <a href="#">MM210</a>    <input type="checkbox"/> <a href="#">AWS</a>    <input type="checkbox"/> <a href="#">All Sky Imager</a>    <input type="checkbox"/> <a href="#">EA Radar</a>  <input type="checkbox"/> <a href="#">MU Radar</a>    <input type="checkbox"/> <a href="#">MF Radar</a>    <input type="checkbox"/> <a href="#">MW Radar</a>    <input type="checkbox"/> <a href="#">X-Band Radar</a>    <input type="checkbox"/> <a href="#">GPS Receiver</a>  <input type="checkbox"/> <a href="#">Na-Lidar</a>    <input type="checkbox"/> <a href="#">EISCAT</a>    <input type="checkbox"/> <a href="#">OMTI</a>    <input type="checkbox"/> <a href="#">SuperDARN</a>    <input type="checkbox"/> <a href="#">VHF Radar</a>  <input type="checkbox"/> <a href="#">VLF/ELF</a>    <input type="checkbox"/> <a href="#">Ionosonde</a>    <input type="checkbox"/> <a href="#">Radiosonde</a>    <input type="checkbox"/> <a href="#">BL/LT/WP Radar</a>    <input type="checkbox"/> <a href="#">Riometer</a>  <input type="checkbox"/> <a href="#">Others</a> </div>	
<b>Keyword:</b> <input type="text"/>	
<b>Timespan:</b> <input type="text"/> To <input type="text"/> <a href="#">Set Detail</a>	
<input type="button" value="Search"/>	

**カテゴリを選択(任意)**

知りたい時間範囲(開始、終了)を入力

検索結果一覧画面では、その日時に観測をしているものが表示される  
(観測を休止しているものは、プロット画面では「NoData」と表示されます)。



## 2.2. 詳細検索 キーワード指定

**IUGONET DataSet**

**タブを選択** (LIST, MAP)

**LIST** **MAP**

Instrument Type	Observed Region
<b>Satellite:</b> <input type="checkbox"/> <a href="#">AKEBONO</a> <input type="checkbox"/> <a href="#">CHAMP</a>	
<b>Ground-Based:</b>	
<input type="checkbox"/> <a href="#">SMART (Telescope)</a> <input type="checkbox"/> <a href="#">Geomagnetic Indices</a> <input type="checkbox"/> <a href="#">MAGDAS</a> <input type="checkbox"/> <a href="#">MU Radar</a> <input type="checkbox"/> <a href="#">Na-Lidar</a> <input type="checkbox"/> <a href="#">VLF/ELF</a> <input type="checkbox"/> <a href="#">Others</a>	<input type="checkbox"/> <a href="#">DST (Telescope)</a> <input type="checkbox"/> <a href="#">WDC Geomag., Kyoto</a> <input type="checkbox"/> <a href="#">MM210</a> <input type="checkbox"/> <a href="#">MF Radar</a> <input type="checkbox"/> <a href="#">EISCAT</a> <input type="checkbox"/> <a href="#">Ionosonde</a>
<input type="checkbox"/> <a href="#">FMT (Telescope)</a> <input type="checkbox"/> <a href="#">Magnetometer (KMO)</a> <input type="checkbox"/> <a href="#">AWS</a> <input type="checkbox"/> <a href="#">MW Radar</a> <input type="checkbox"/> <a href="#">OMTI</a> <input type="checkbox"/> <a href="#">Radiosonde</a>	<input type="checkbox"/> <a href="#">Refractor (Telescope)</a> <input type="checkbox"/> <a href="#">Magnetometer</a> <input type="checkbox"/> <a href="#">All Sky Imager</a> <input type="checkbox"/> <a href="#">X-Band Radar</a> <input type="checkbox"/> <a href="#">SuperDARN</a> <input type="checkbox"/> <a href="#">BL/LT/WP Radar</a>
	<input type="checkbox"/> <a href="#">Muon (Telescope)</a> <input type="checkbox"/> <a href="#">Induction</a> <input type="checkbox"/> <a href="#">EA Radar</a> <input type="checkbox"/> <a href="#">GPS Receiver</a> <input type="checkbox"/> <a href="#">VHF Radar</a> <input type="checkbox"/> <a href="#">Riometer</a>

**キーワードを入力** (Keyword: )

**カテゴリを選択(任意)** (Timespan:  To  [Set Detail](#)

カテゴリ、キーワード、時間を組み合わせた検索も可能。

## 2.2. 詳細検索 その他のオプション

**IUGONET DataSet**

**タブを選択** → **LIST** **MAP**

Instrument Type	Observed Region
<b>Satellite:</b> <input type="checkbox"/> <a href="#">AKEBONO</a> <input type="checkbox"/> <a href="#">CHAMP</a>	
<b>Ground-Based:</b>	
<input type="checkbox"/> <a href="#">SMART (Telescope)</a> <input type="checkbox"/> <a href="#">Geomagnetic Indices</a> <input type="checkbox"/> <a href="#">MAGDAS</a> <input type="checkbox"/> <a href="#">MU Radar</a> <input type="checkbox"/> <a href="#">Na-Lidar</a> <input type="checkbox"/> <a href="#">VLF/ELF</a> <input type="checkbox"/> <a href="#">Others</a>	<input type="checkbox"/> <a href="#">DST (Telescope)</a> <input type="checkbox"/> <a href="#">WDC Geomag., Kyoto</a> <input type="checkbox"/> <a href="#">MM210</a> <input type="checkbox"/> <a href="#">MF Radar</a> <input type="checkbox"/> <a href="#">EISCAT</a> <input type="checkbox"/> <a href="#">Ionosonde</a>
<input type="checkbox"/> <a href="#">FMT (Telescope)</a> <input type="checkbox"/> <a href="#">Magnetometer (KMO)</a> <input type="checkbox"/> <a href="#">AWS</a> <input type="checkbox"/> <a href="#">MW Radar</a> <input type="checkbox"/> <a href="#">OMTI</a> <input type="checkbox"/> <a href="#">Radiosonde</a>	<input type="checkbox"/> <a href="#">Refractor (Telescope)</a> <input type="checkbox"/> <a href="#">Magnetometer</a> <input type="checkbox"/> <a href="#">All Sky Imager</a> <input type="checkbox"/> <a href="#">X-Band Radar</a> <input type="checkbox"/> <a href="#">SuperDARN</a> <input type="checkbox"/> <a href="#">BL/LT/WP Radar</a>
	<input type="checkbox"/> <a href="#">Muon (Telescope)</a> <input type="checkbox"/> <a href="#">Induction</a> <input type="checkbox"/> <a href="#">EA Radar</a> <input type="checkbox"/> <a href="#">GPS Receiver</a> <input type="checkbox"/> <a href="#">VHF Radar</a> <input type="checkbox"/> <a href="#">Riometer</a>

Keyword:

Timespan:  To  [Set Detail](#)

Plot: ☐ Contains Summary Plot  
☐ Analyzable Using UDAS-web

**カテゴリーを選択(任意)**

**詳細オプションを選択**

**LIST** **MAP**

Contains Summary Plot: Quick Look画像あり

Analyzable Using UDAS web: UDAS web を使った解析に対応しているもの

## 2.3. UDAS web を使って簡易解析する

keyword:  Timespan:  To  [Set Detail](#)

Search Results:

☒ Text ☐ Plot ☒ Contains Summary Plot ☐ Create Plot (Using UDAS-Web)

**Ground-Based**

**Geomagnetic Indices**

Numerical Data	<a href="#">Geomagnetic Auroral Electrojet Index AE</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">Geomagnetic Auroral Electrojet Index Provisional AE</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">Geomagnetic Auroral Electrojet Index Real-time AE</a>	<input type="checkbox"/>
Numerical Data	<a href="#">Geomagnetic Equatorial Dst Index</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">Geomagnetic Equatorial Dst Index Provisional</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">Geomagnetic Equatorial Dst Index Quick Look</a>	<input type="checkbox"/>
Numerical Data	<a href="#">Mid-latitude Geomagnetic Index</a>	<input type="checkbox"/>

**MM210**

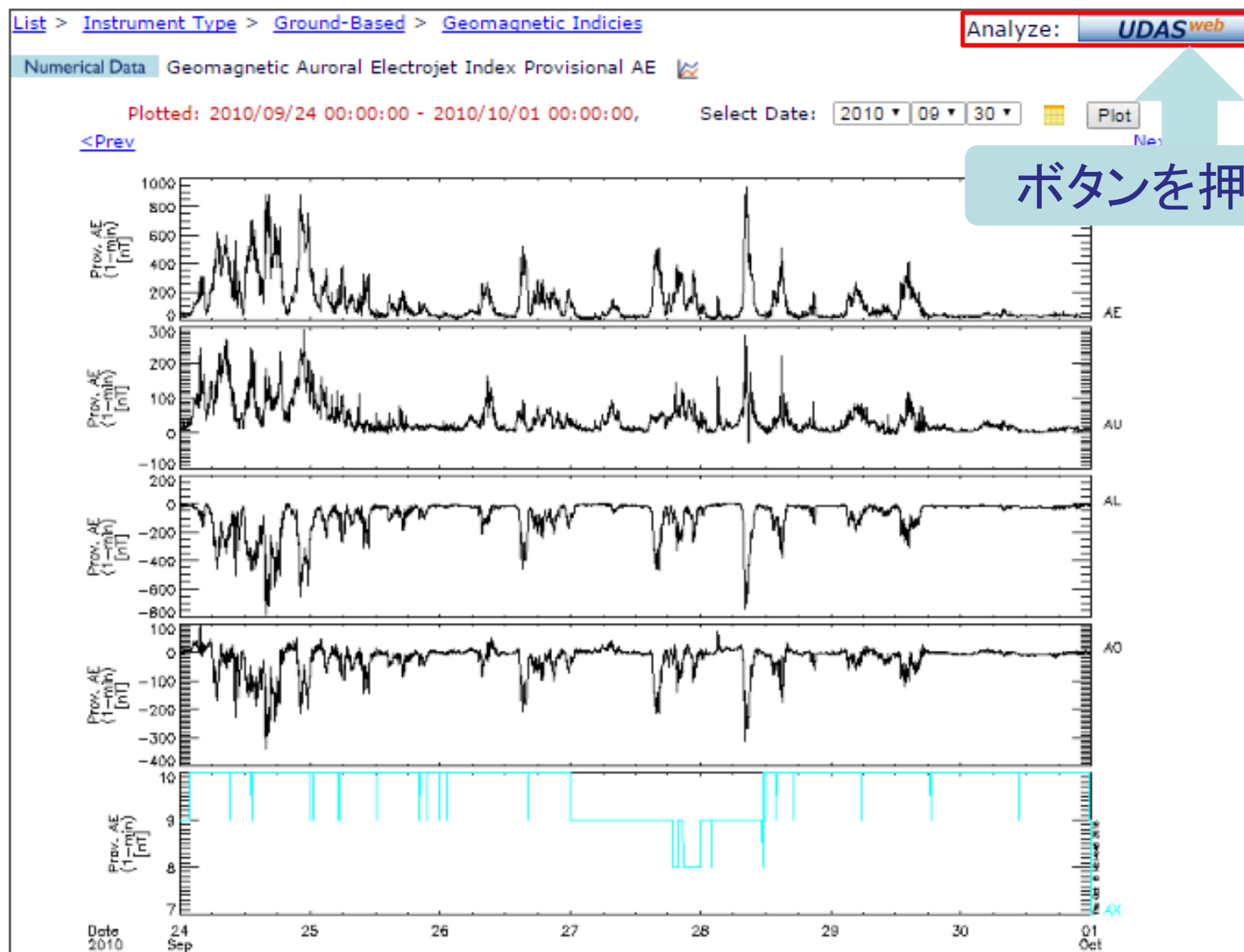
Numerical Data	<a href="#">MM210 Adelaide magnetometer 1 min resolution data distributed by ERG-SC</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">MM210 Biak magnetometer 1 min resolution data distributed by ERG-SC</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">MM210 Birdsville magnetometer 1 min resolution data distributed by ERG-SC</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">MM210 Canberra magnetometer 1 min resolution data distributed by ERG-SC</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">MM210 Chichijima magnetometer 1 min resolution data distributed by ERG-SC</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">MM210 Chokurdakh magnetometer 1 min resolution data distributed by ERG-SC</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">MM210 Dalby magnetometer 1 min resolution data distributed by ERG-SC</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">MM210 Darwin magnetometer 1 min resolution data distributed by ERG-SC</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">MM210 Ewa Beach magnetometer 1 min resolution data distributed by ERG-SC</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">MM210 Guam magnetometer 1 min resolution data distributed by ERG-SC</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">MM210 Kagoshima magnetometer 1 min resolution data distributed by ERG-SC</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">MM210 Katanning magnetometer 1 min resolution data distributed by ERG-SC</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">MM210 Kotel'nyy magnetometer 1 min resolution data distributed by ERG-SC</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">MM210 Kototabang magnetometer 1 min resolution data distributed by ERG-SC</a>	<input checked="" type="checkbox"/>
Numerical Data	<a href="#">MM210 Learmonth magnetometer 1 min resolution data distributed by ERG-SC</a>	<input checked="" type="checkbox"/>

**ボタンを押す**

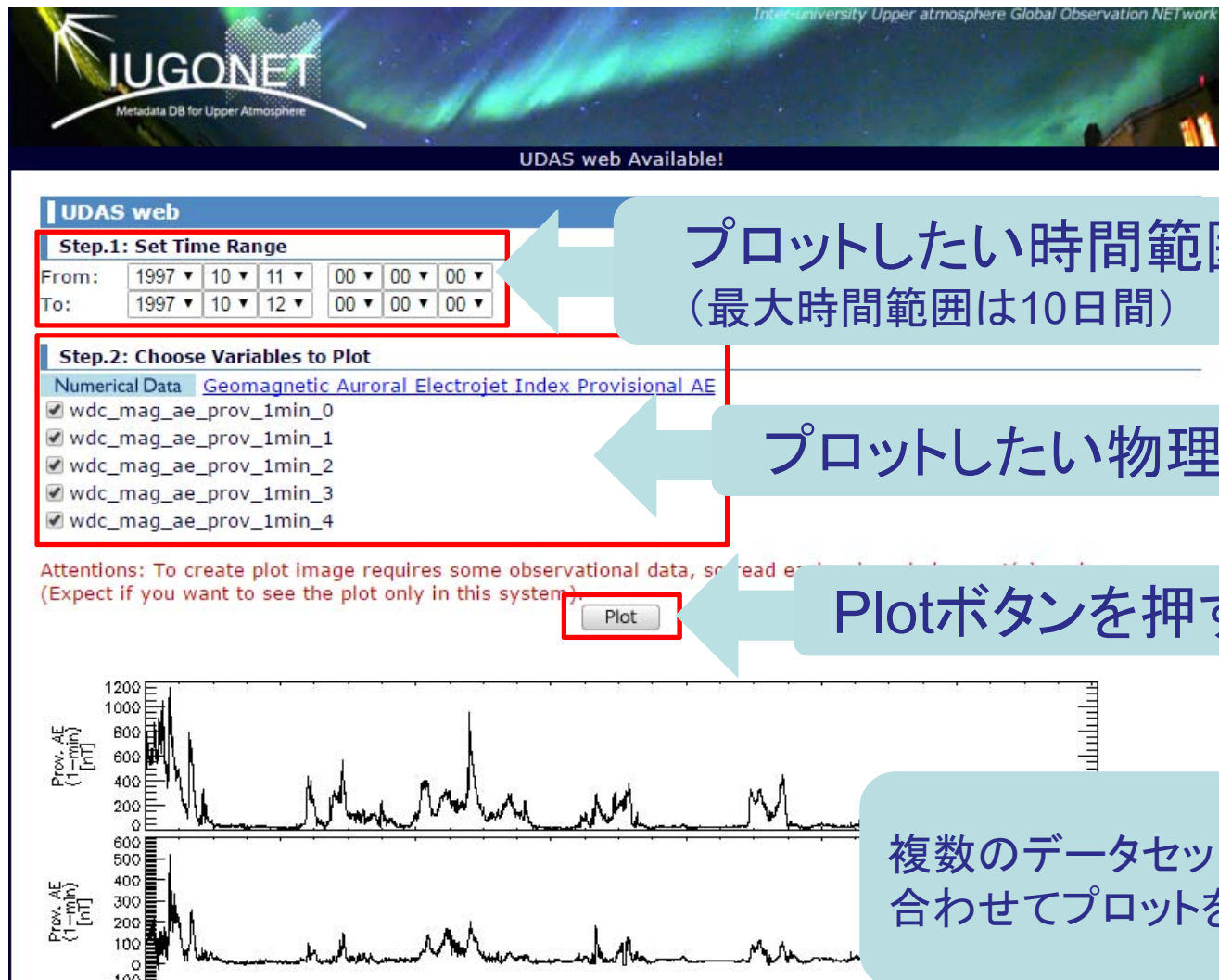
**このチェックボックスは UDAS web を使って解析できることを示す**

**チェックを付ける**

## 2.3. UDAS web を使って簡易解析する



## 2.3. UDAS web を使って簡易解析する



プロットしたい時間範囲を入力  
(最大時間範囲は10日間)

プロットしたい物理量を選択

Plotボタンを押す

複数のデータセット(最大3つまで)を組み  
合わせてプロットを作ることができます



## 2.4. 解析方法を得る

**AccessInformation:**  
 Acknowledgement: If the data are used in publications and presentations, the data suppliers and the WDC for Geomagnetism, Kyoto must properly be acknowledged.  
 URL: <http://wdc.kugi.kyoto-u.ac.jp/wdc/Sec3.html>  
 Availability: Online  
 Access Rights: Open  
 Format: Text

**Processing Level:** Calibrated  
**Measurement Type:** ActivityIndex

**Time Span:**  
 StartDate: 1989-03-01T00:00:00  
 StopDate: 2010-09-30T23:59:59

**Observed Region:** Earth.Surface

**Keywords:** AE INDEX

**Instrument:**  
 Name: Magnetometers at Abisko (ABK)  
 Description: Information about magnetometers at Abisko (ABK)  
**Contact (GeneralContact):**  
 Toshihiko Iyemori, Data Analysis Center for Geomagnetism and Space Magnetism, Graduate School of Science, Kyoto University / World Data Center (WDC) for Geomagnetism, Kyoto, iyemori@kugi.kyoto-u.ac.jp  
**Contact (MetadataContact):**  
 Masahito Nose, Data Analysis Center for Geomagnetism and Space Magnetism, Graduate School of Science, Kyoto University / World Data Center (WDC) for Geomagnetism, Kyoto, nose@kugi.kyoto-u.ac.jp  
 InstrumentType: Magnetometer  
 InvestigationName: -

**Observatory:**  
 Name: Abisko Geomagnetic Observatory (ABK)  
 Description: Abisko (ABK), Sponsoring Country:Sweden, Operating Span:1921-  
**Contact (GeneralContact):**  
 Toshihiko Iyemori, Data Analysis Center for Geomagnetism and Space Magnetism, Graduate School of Science, Kyoto University / World Data Center (WDC) for Geomagnetism, Kyoto, iyemori@kugi.kyoto-u.ac.jp  
**Contact (MetadataContact):**  
 Masahito Nose, Data Analysis Center for Geomagnetism and Space Magnetism, Graduate School of Science, Kyoto University / World Data Center (WDC) for Geomagnetism, Kyoto, nose@kugi.kyoto-u.ac.jp  
 Location:  
 ObservatoryRegion: Earth  
 CoordinateSystemName: GEO  
 Latitude: 68.358  
 Longitude: 18.823

**Observed Data:**

**How to Plot (SPEDAS-CUI):**

```
IDL> thm_init
THEMIS> timespan, ['2010-09-24 00:00:00', '2010-10-01 00:00:00']
THEMIS> iug_load_gmag_wdc, site='ae', level='provisional'
THEMIS> split_vec, 'wdc_mag_ae_prov_1min'
THEMIS> tplot, ['wdc_mag_ae_prov_1min_0', 'wdc_mag_ae_prov_1min_1', 'wdc_mag_ae_prov_1min_2',
               'wdc_mag_ae_prov_1min_3', 'wdc_mag_ae_prov_1min_4']
```

**Original Metadata Files:**  
 PT1M\_provisional.xml: [Geomagnetic Auroral Electrojet Index Provisional AE](#)

解析方法を調べて、手元のソフトウェアで実際に操作してみましょう。

対応する解析ソフトウェアと、その操作方法が示されています。

■ IUGONET Type-A へのご意見をお待ちしています。

- こういう機能が欲しいなあ・・・
- プロットを増やして欲しいなあ・・・
- 使い方が分からないところがあり、教えて欲しいなあ・・・

など、皆さんのリクエストをお待ちしています。