



北極域データアーカイブ における可視化解析 Webアプリケーションの開発

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GRENE-Arctic



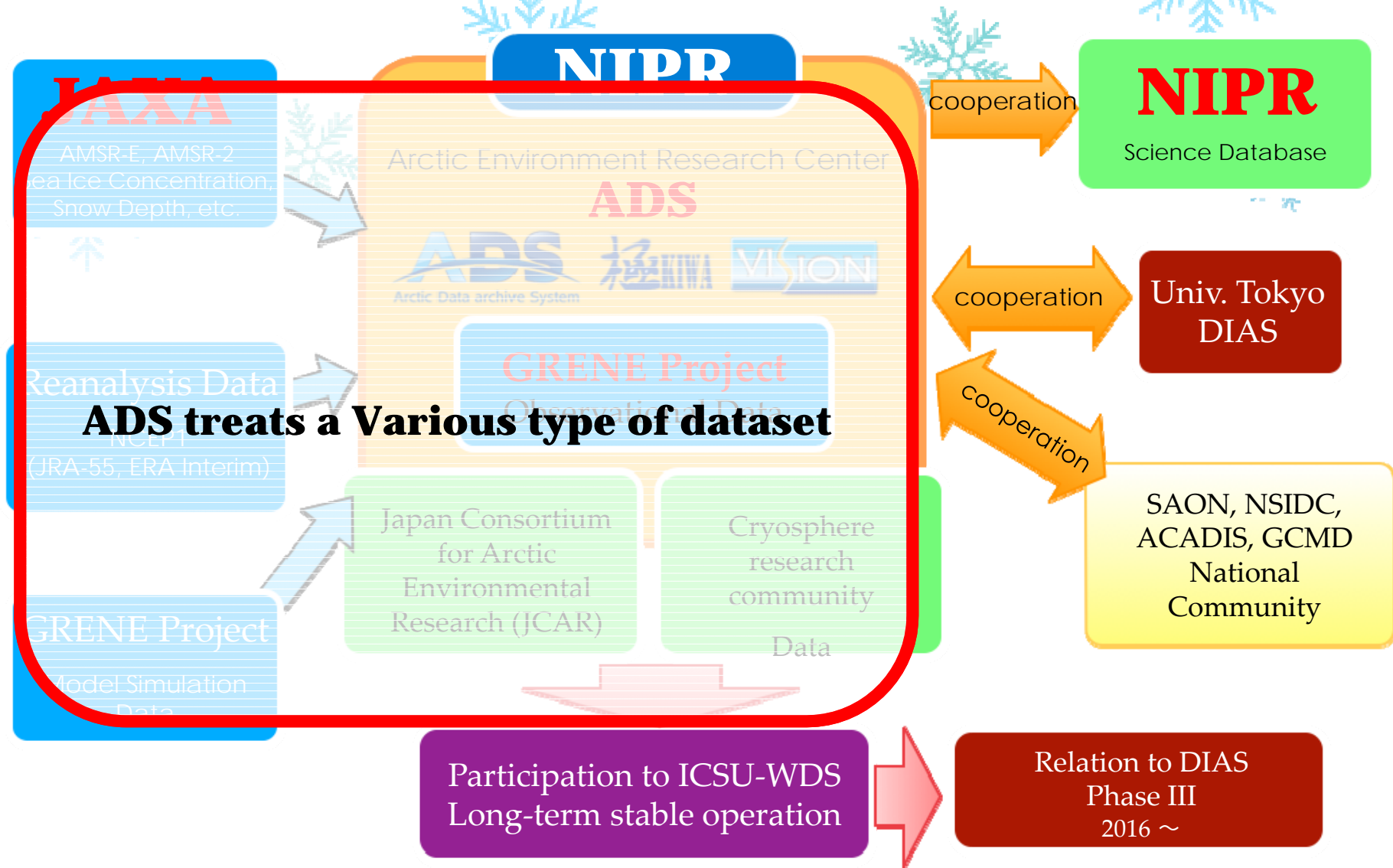
Arctic Data archive System

- Arctic Data archive System (ADS) was launched on purpose to collect, manage and open some arctic data supported by GRENE-Arctic project.
- One of purpose of ADS is to progress the data mutual utilization between model researchers and observation researchers.



However data mutual utilization is not much progress...

ADS link to other data center



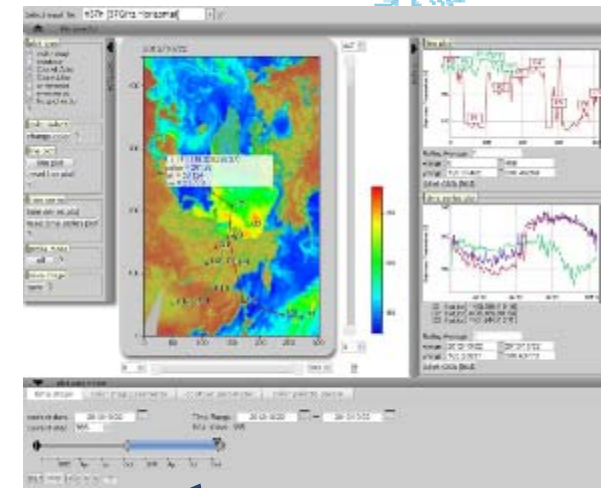
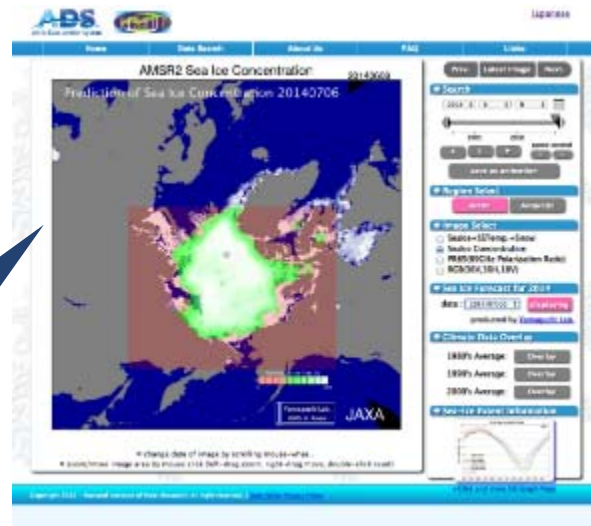
ADS link to other data center

極KIWA

メタデータ登録・検索・
一元管理システム



衛星データを準リアル
タイムでWebで提供



ブラウザ上でグリッドデータや、
時系列データを可視化し、解析
を可能にする



データセットを確認する道のり

- どのファイル入手すべき？
- データフォーマットは何か
- フォーマットに適した可視ソフトは何か？
- 得られた結果は本当に欲しかったものか？

Using VISION,
you can skip this
process.





VISION



ADS
Arctic Data archive System

test1 Logout

Home Applications About Us FAQ Links

ADS Data Registration

VISION

VISHOP

AXA*NIPR

Map Search

List All Data Sets in Catalog by Topic

Advanced Search

Arctic Data archive System

Of all the regions on the planet, the Arctic currently shows the biggest rise in average temperature due to global warming, and is one of the regions expected to become most affected by climate change on the Earth in the future. The change in the Arctic area brings a profound impact to the global climate system through changes in interactions between the atmosphere, ocean circulation, and the cryosphere. These climate changes not only impact upon human activities, but also the Arctic flora and fauna ecosystem.

Large parts of the observations and mechanisms of the environmental change, including the climate of the Arctic region, are still not well understood. In order to further our understanding of these complex systems, an integrated study carried out with continuous observations in the Arctic is proposed. In the Arctic Environmental Observation Center in the National Institute of Polar Research, operations began on the Arctic Data archive System (ADS) in March 2012, in order to promote the mutual use of scientific data.

The purpose of the Arctic Data archive System is to archive and distribute multiple observational (atmosphere, ocean, terrestrial, and ecology) and model simulation datasets, and promote utilization of these datasets. ADS is the central repository of archived data on Arctic research in Japan.

Information Follow

ADS_NIPR 9 Apr
@ADS_NIPR
VISIONのユーザーの皆様：AMSR2のプロダクトが新バージョンに移行します。移行期間に伴い、データ処理の関係で最新データのご利用はできません。ただし2015年3月25日までのデータはご利用になれます。

ADS_NIPR 9 Apr
@ADS_NIPR
VISHOPのユーザーの皆様、AMSR2のプロダクトが新バージョンに移行しました。4月7日のデータより公開を再開しました。3月26日から4月6日までのデータに関するお問い合わせは、お電話にてお願いします。

Related Organizations

NiPR National Institute of Polar Research

The Arctic Arctic Environment Research Center

GRENE GREEN RESEARCH INSTITUTE

JCAR Japan Consortium for Arctic Environmental Research

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<http://ads.nipr.ac.jp>

データセットの確認だけしたい

ADS Arctic Data archive System

VISION VIS-HOP

Japanese

Home Applications About Us FAQ Links

AMSR2 Sea Ice con.+Sea Surf. Temp.+Snow Depth 20150815D

Prev. Latest Image Next.

Search

2015 8 15

2005 2010 2015 speed control

save as image

save as animation

Region Select

Arctic Antarctic

Orbit Select

Descend Ascend

Image Select

SeaIce+SSTemp+Snow

Sea Ice Forecast for 2015

date: 2015/08/15 overlay

produced by Yamaguchi Lab.

Climate Data Overlay

1980's Average: displaying

1990's Average: overlay

2000's Average: Overlay

Help

Usage

対象データの
日時の選択

アニメーションの
再生と保存

北極と南極の選択

衛星軌道の選択

プロダクトの選択

海氷予報の重ね合わせ

気候値の重ね合わせ

Sea Ice Con. [%]

Sea Surf. Temp. [C]

Snow Depth [cm]

NIPR JAXA

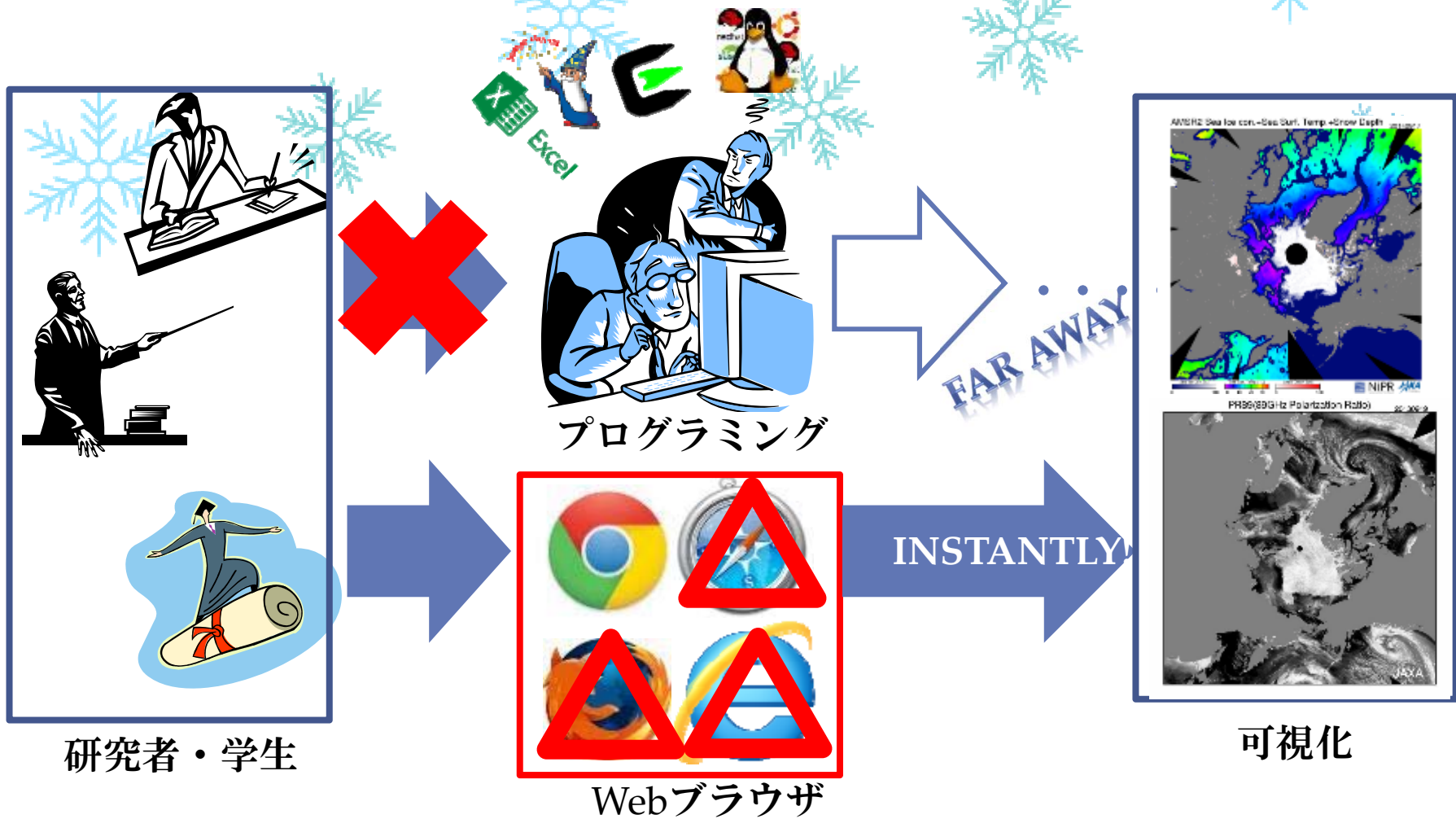
※ change date of image by scrolling mouse-wheel.

※ zoom/move image area by mouse click (left-drag:zoom, right-drag:move, double-click:reset)

VISIONとVISHOPの特徴

- ▶ javascriptベースのWebアプリケーション
 - ▶ Ajax, Node.js, JSON
 - ▶ ブラウザ上ですべて動作する
 - ▶ サーバーサイドの処理はほとんどない
 - ▶ データ転送
 - ▶ 画像ファイルの描画(VISHOPのみ)
 - ▶ クライアントサイドのPC性能に依存

可視化と解析はWebサービスへ



- ワンストップの提供と学習時間の短縮
- OS依存関係からブラウザ依存関係へ
- 利用者はプログラミングしなくなる