

BAND 1 ( 0.47μm) BLUE

BAND 2 ( 0.51μm) GREEN

BAND 3 ( 0.64μm) RED

BAND 4 ( 0.86μm) NIR

BAND 5 ( 1.60μm) SWIR

BAND 6 ( 2.30μm) SWIR

BAND 7 ( 3.90μm) MWIR

BAND 8 ( 6.20μm) MWIR

BAND 9 ( 6.90μm) MWIR

BAND 10 ( 7.30μm) MWIR

BAND 11 ( 8.60μm) LWIR

BAND 12 ( 9.60μm) LWIR

BAND 13 (10.40μm) LWIR

BAND 14 (11.20μm) LWIR

BAND 15 (12.40μm) LWIR

# Asia-Oceania Online Users Forum: Himawari-8 Real-time Web Application

Ken T. Murata(1), Yoshiaki Nagaya(1),

Atsushi Higuchi(2) and Koichi Toyoshima(2)

(1) National Institute of Information and Communications Technology, (2) Chiba University

# NICT

## National Institute of Information and Communications Technology

The image shows a screenshot of the NICT website homepage. At the top, there is a navigation bar with the NICT logo and the text "National Institute of Information and Communications Technology". Below this, there are several menu items: "About NICT", "Press Release", "Events & Topics", and "Library/Data". A large blue callout box is overlaid on the right side of the page, containing the text "NICT... No 'W' No 'M'". The main content area features a "Press Release" section with four items, each with a date and a title. To the right of the press releases is a "Quick Access" section with three links. Below the press releases is a "Institutes" section with one link. At the bottom left, there is a "Current Time(JST)" section with a clock showing 10:19:49 on 11/12 Thu. 2015.

www.nict.go.jp/en/index.html

Bookmarks 英辞郎 日本経済新聞 Gmail - 受信トレイ goo NICT Internal Ser... Yahoo

NICT National Institute of Information and Communications Technology

Main Content A A A Contact Us Access Sitemap

About NICT Press Release Events & Topics Library/Data

9:43:06

Current Time(JST) Details

2015  
11/12 Thu.

10:19:49

Press Release

- Oct. 13  
▶ Realization of World Record Fiber-Capacity of 2.15Pb/s Transmission
- Sep. 16  
▶ Technology for Visualizing and Analyzing Control System Traffic to Verify its Integrity
- Aug. 19  
▶ Decision Making by Single Photons
- Jun. 1  
▶ New Heterogeneous Wavelength Tunable Laser Diode

Quick Access

- ▶ International Cooperation
- ▶ ICT Virtual Organization of ASEAN Institutes and NICT
- ▶ Employment Information

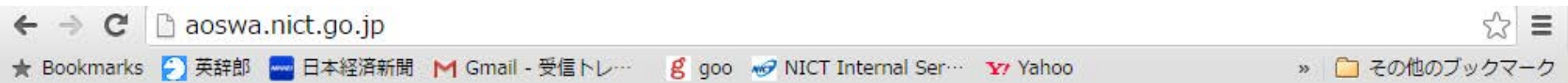
Institutes

- ▶ Network Research Headquarters

NICT...  
No "W"  
No "M"



# Asia-Oceania Space Weather Alliance (since 2010)



[Site map](#) [Site Policy](#)



## Welcome to AOSWA

*AOSWA (Asia Oceania Space Weather Alliance) was established in 2010 for encouraging cooperation and sharing information among institutes in Asia-Oceania*



# Seeing is believing...



Real-time!



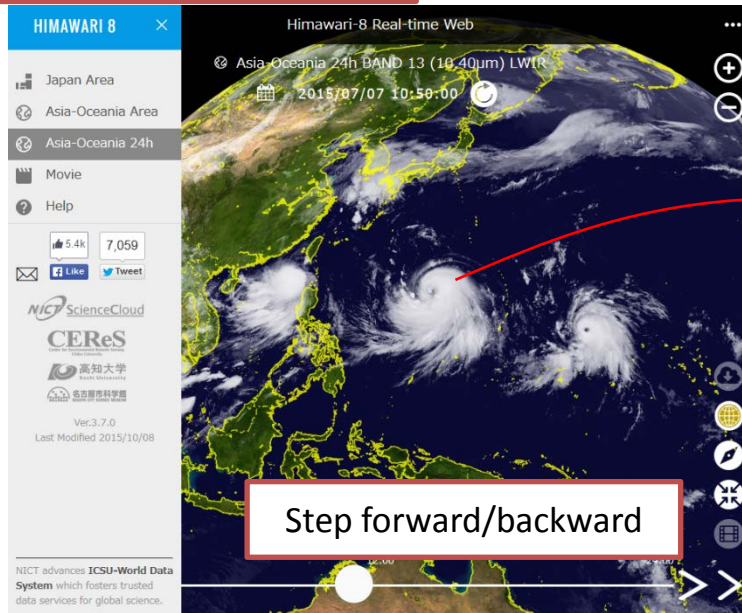
<http://himawari8.nict.go.jp>



NICT himawari



## Data Selection (4 types)

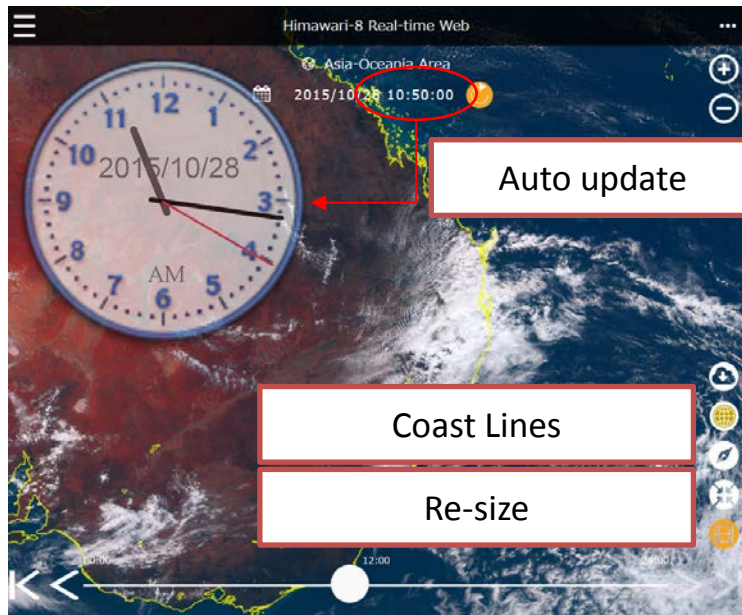
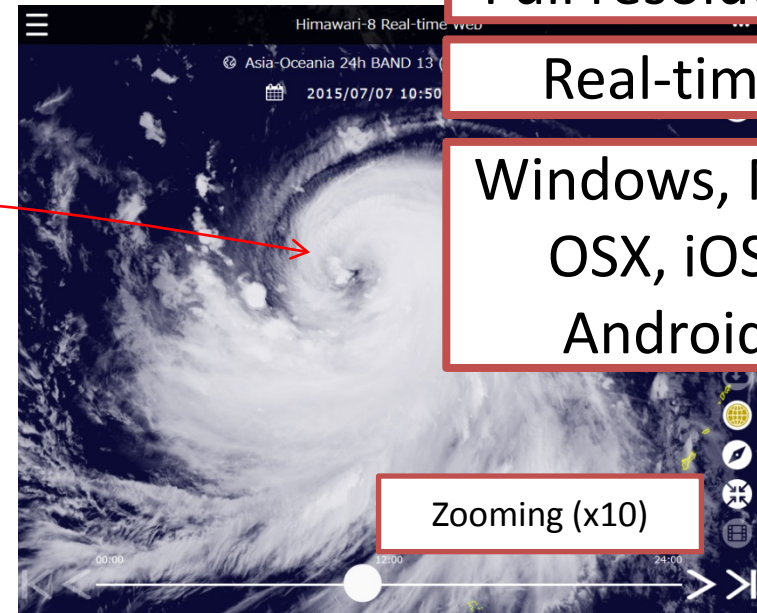


## Services

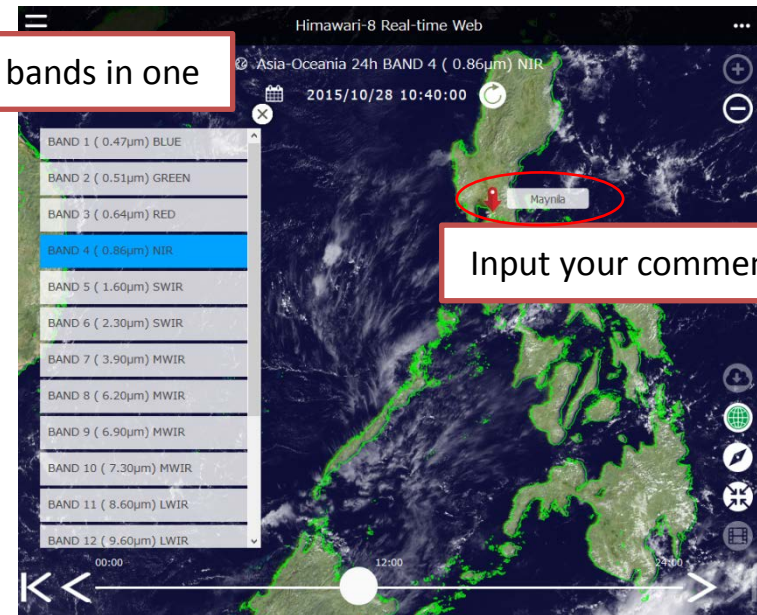
Full resolution

Real-time

Windows, Mac  
OSX, iOS,  
Android



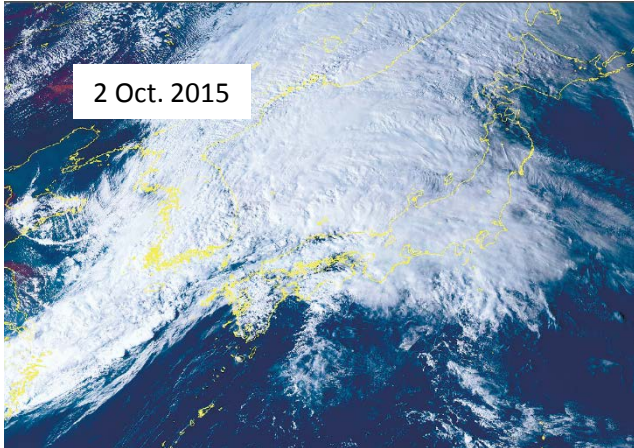
All 16 bands in one





# Newspapers

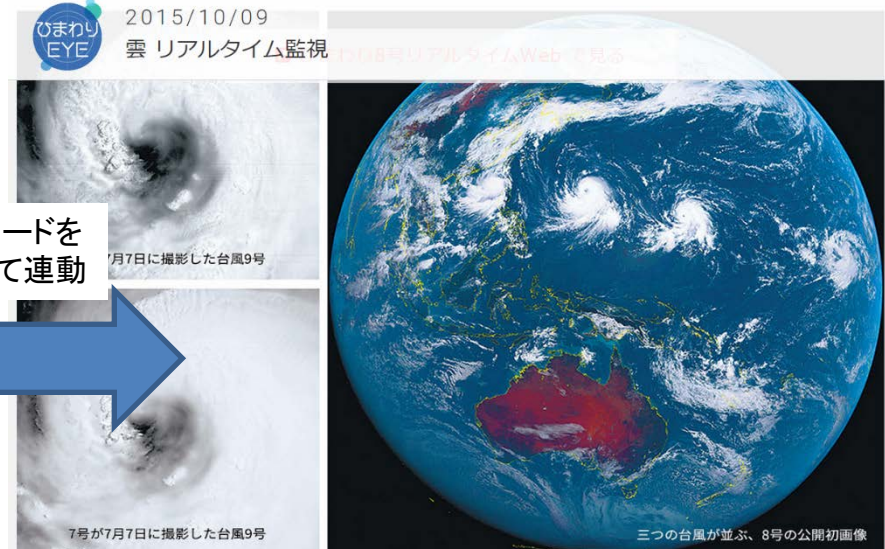
- “Himawari EYE” on the Mainichi
- Weekly, Half (or) One Year



2 Oct. 2015

急激に発達し、強風 響する範囲の広さは、 などの災害をもたらす 極低気圧は、影 1日午後3時に、新 しい気象衛星「ひまわり8号」がとらえた画 像は、台風21号から変 わった低気 圧の中心の 状 況の中心の 本州には、 かす曇った 雲が広がる んやりして 大気の上層 広がって、 青森県あ に横切る細 がある。こ 半島付近ま なる。発達 の北側に現

急激に発達し、強風 響する範囲の広さは、 などの災害をもたらす 極低気圧は、影 1日午後3時に、新 しい気象衛星「ひまわり8号」がとらえた画 像は、台風21号から変 わった低気 圧の中心の 状 況の中心の 本州には、 かす曇った 雲が広がる んやりして 大気の上層 広がって、 青森県あ に横切る細 がある。こ 半島付近ま なる。発達 の北側に現



2015/10/09

雲 リアルタイム監視

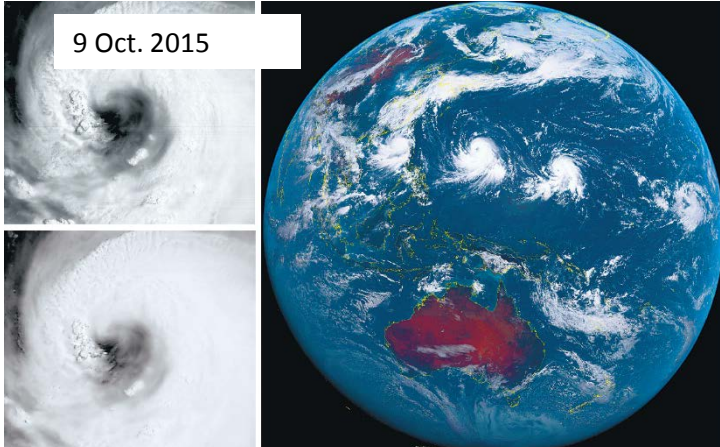
ひまわりEYE

7月7日に撮影した台風9号

7号が7月7日に撮影した台風9号

三つの台風が並ぶ、8号の公開初画像

QRコードを介して連動

9 Oct. 2015

ひまわりEYE

## 雲リアルタイム監視



ひまわり7号と8号の比較 (7月7日午前11時50分ごろ)

台風9号ムービー (7月7日10時50分～21時)

NICTサイエンスクラウド紹介 (サイバー地球)

【最新情報】台風23号ムービー (10月7日午前3時～午後9時)

Himawari EYEオンライン <http://hima8-m.nict.go.jp>

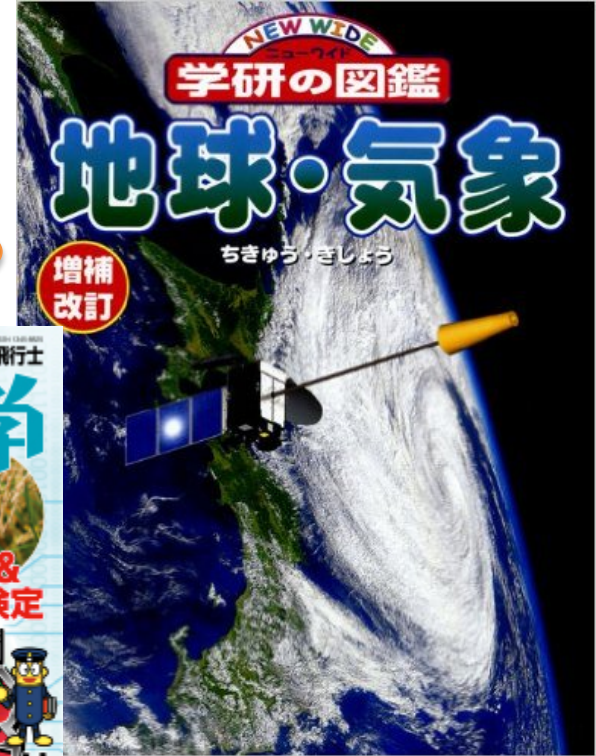
ひまわり8号の運用開始は7月7日の七夕の日だった。初画像は太平洋に並ぶ、個々の台風(9・10・11号)を精密にとらえた。画像の解像度は、運用を終えたひまわり7号の2倍、撮した可視画像だと、最高5000四方を識別する。台風9号中心部分の画像は、はきり分かる。暗く写った「台風」の目」の西にある発達した積乱雲群も鮮明だ。直径十数kmの積乱雲の1つ1つが、より立体的に判別できる。撮影も速い。7号は30分ごとだが、地球全体観測が10分間隔、日本周の画像なら、10分ごと。急激に発達する台風が並ぶ、8号の公開初画像は、7月7日午後3時に撮影された。NICTサイエンスクラウド紹介(サイバー地球)【最新情報】台風23号ムービー(10月7日午前3時～午後9時)



# For young generations



Magazine



pictorial book



Text book



# Tonoshou Elementary School in Kagawa Pref. (Japan)



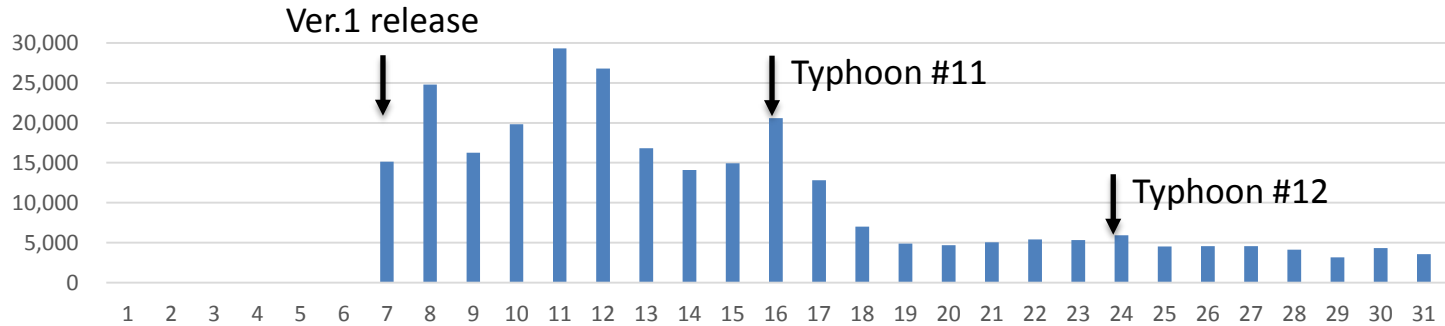
# Chuo Univ. Fuzoku J. High School in Tokyo (Japan)



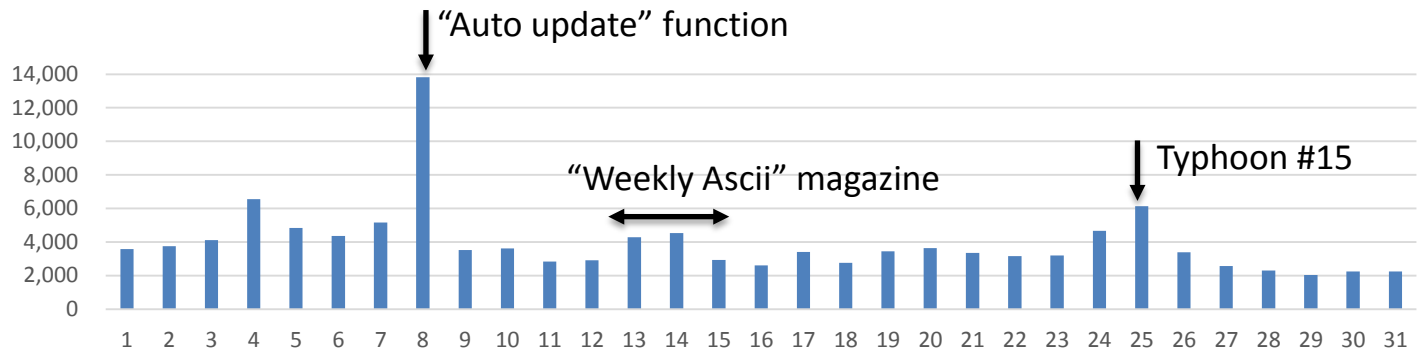


# Access Log (domestic) from July to Sept. 2015

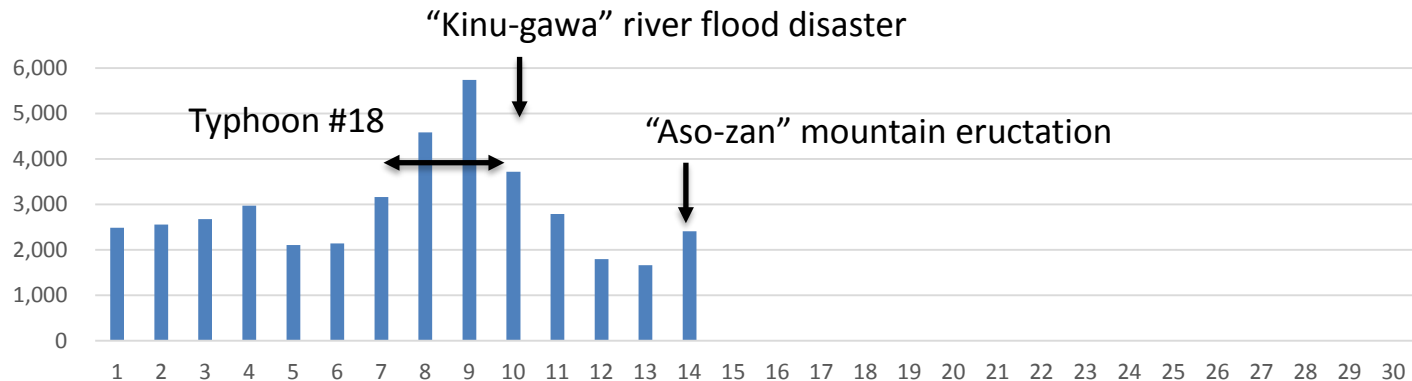
July



Aug.



Sept.

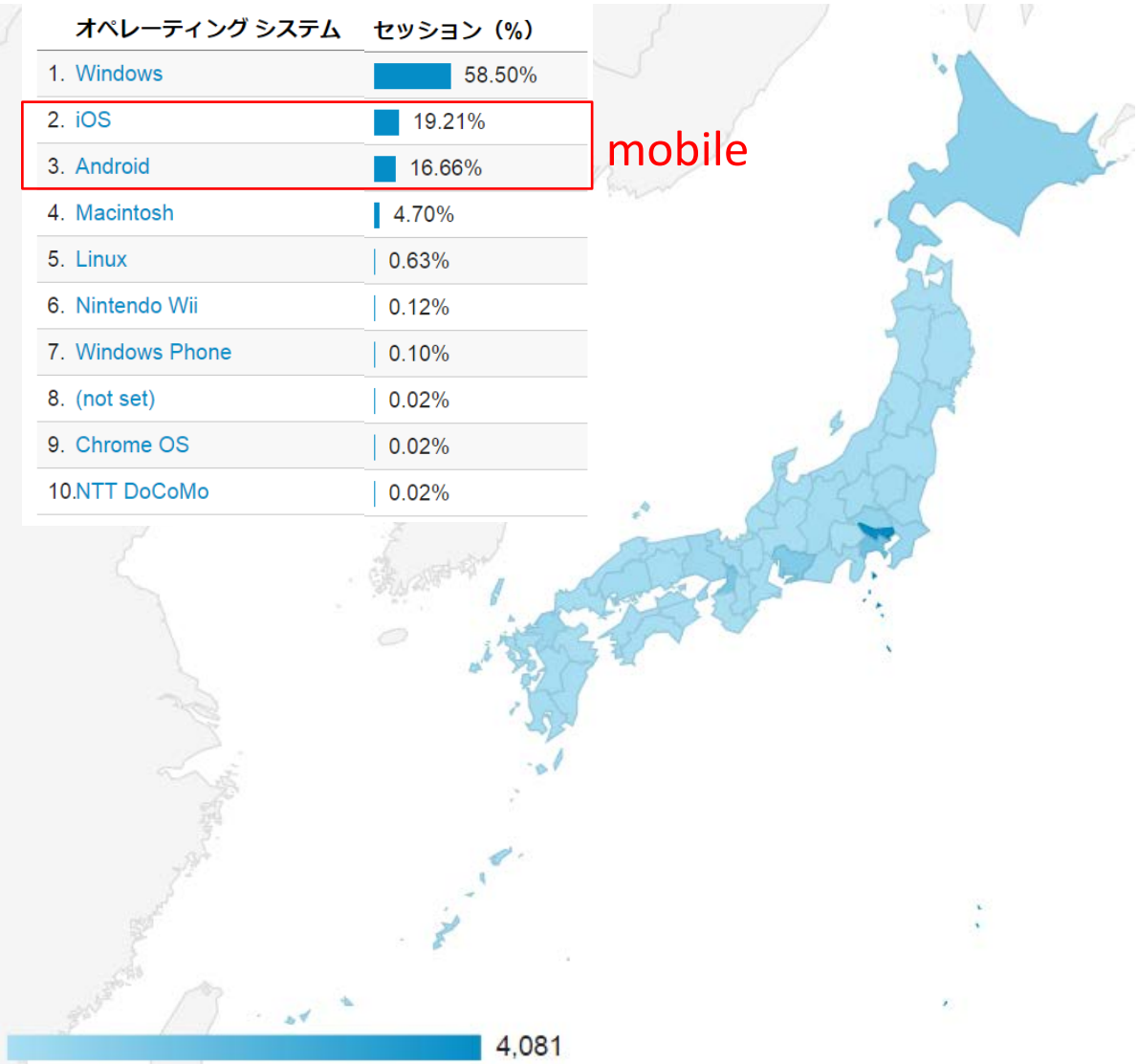


# Domestic Access

1. Tokyo	(28.63%)
2. Kanagawa Prefecture	(10.18%)
3. Osaka Prefecture	(8.40%)
4. Aichi Prefecture	(6.97%)
5. Hokkaido	(4.99%)
6. Saitama Prefecture	(4.03%)
7. Chiba Prefecture	(2.88%)
8. Fukuoka Prefecture	(2.79%)
9. Hyogo Prefecture	(2.36%)
10. Ibaraki Prefecture	(1.80%)
11. Shizuoka Prefecture	(1.80%)
12. Miyagi Prefecture	(1.77%)
13. Kyoto Prefecture	(1.46%)
14. Tochigi Prefecture	(1.35%)
15. Hiroshima Prefecture	(1.34%)
16. Nagano Prefecture	(1.23%)
17. Nara Prefecture	(1.23%)
18. Gunma Prefecture	(1.11%)
19. Okinawa Prefecture	(1.10%)
20. Niigata Prefecture	(1.07%)
21. Kagoshima Prefecture	(0.88%)
22. Mie Prefecture	(0.83%)
23. Kumamoto Prefecture	(0.79%)
24. Okayama Prefecture	(0.78%)
25. Nagasaki Prefecture	(0.72%)





オペレーティング システム	セッション (%)
1. Windows	58.50%
2. iOS	19.21%
3. Android	16.66%
4. Macintosh	4.70%
5. Linux	0.63%
6. Nintendo Wii	0.12%
7. Windows Phone	0.10%
8. (not set)	0.02%
9. Chrome OS	0.02%
10. NTT DoCoMo	0.02%

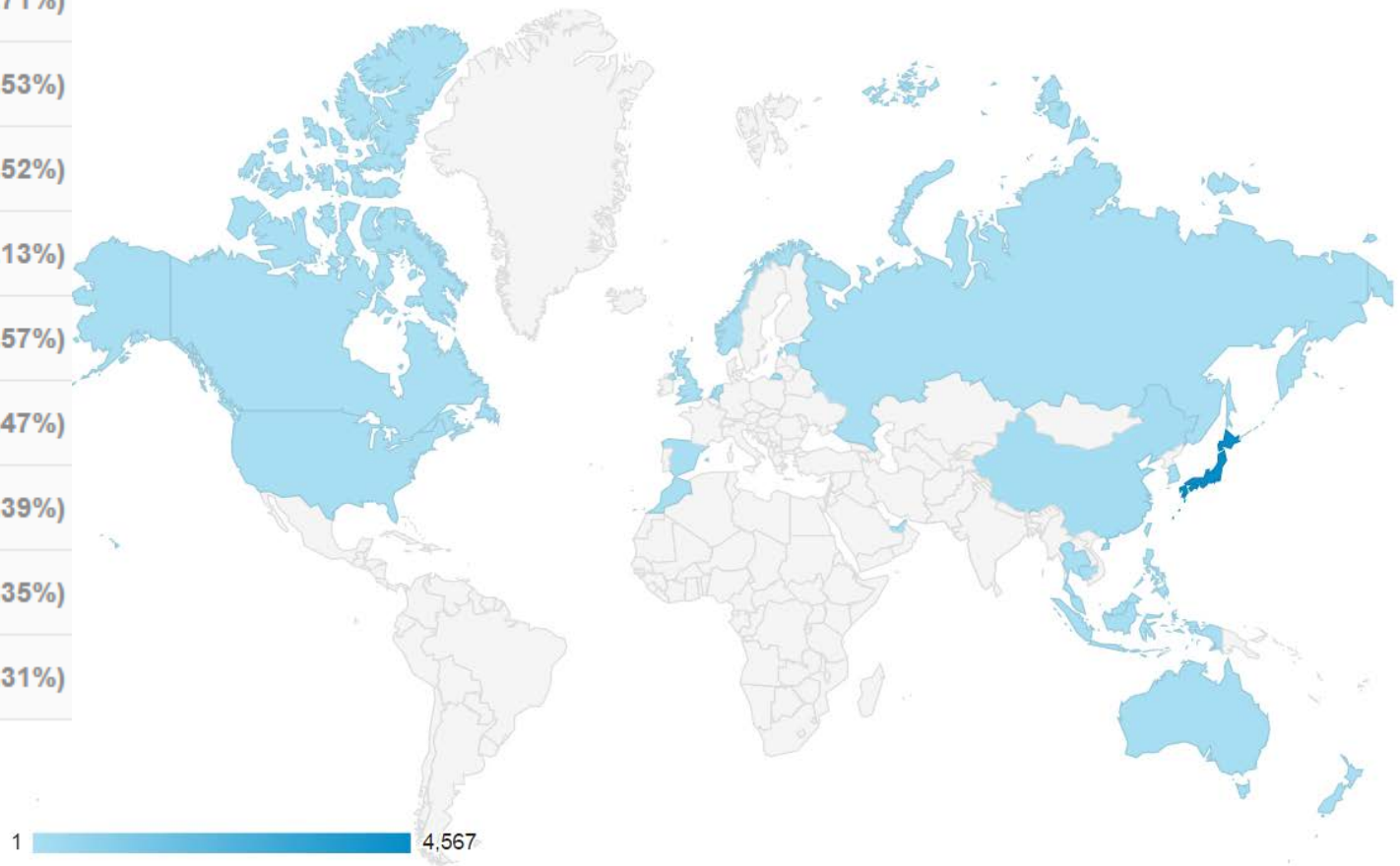
mobile















# International Access

1.	 Japan	(89.01%)
2.	 China	(2.71%)
3.	 Taiwan	(2.53%)
4.	 Australia	(1.52%)
5.	 United States	(1.13%)
6.	 Indonesia	(0.57%)
7.	 Malaysia	(0.47%)
8.	 Hong Kong	(0.39%)
9.	 Thailand	(0.35%)
10.	 South Korea	(0.31%)



# Multi-Language!

	Current	Plan
1.  Japan (89.01%)	English	Japanese
2.  China (2.71%)		華語、中國話、支那語
3.  Taiwan (2.53%)		台灣話
4.  Australia (1.52%)		English
5.  United States (1.13%)		English
6.  Indonesia (0.57%)		indonesia
7.  Malaysia (0.47%)		Melayu
8.  Hong Kong (0.39%)		廣東語
9.  Thailand (0.35%)		ไทย
10.  South Korea (0.31%)		한국어

Vietnam, Singapore, Laos, New Zealand, Philippine... and other countries (in other area)



# himawari 8

NICT SCIENCE CLOUD

SunFlower ひまわり hoa hướng dương  
向日葵 해바라기 bunga matahari  
ดอกทานตะวัน

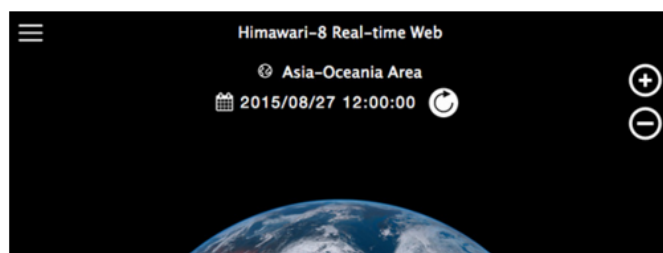
Asia-Oceania Online Users Forum

Himawari-8 Real-time Web Application

<http://sc-web.nict.go.jp/himawari/multi-language/>

The Asia and Oceania area is frequently damaged by natural phenomena such as tropical cyclones, torrential monsoons, volcanic eruptions, yellow sand storms, floods, sea ice and wildfires. Roles of real-time monitoring of the climate and environment is thus getting important. In this area, meteorological satellite, Himawari-8, provides us with observational information for disaster prevention and climate monitoring.

Against these background, JMA (Japan Meteorological Agency) launched a new satellite, Himawari-8, in 2014. The big-data yielded by the satellite are processed almost in real-time and gets open through 4 facilities in Japan. The NICT (National Institute of Information and Communications Technology) is one of the four facilities; The [NICT Science Cloud](#) plays a central role of crawling, transfer, processing, visualizing and operating visualized data through an [web application](#). This web application works not only on PC (Windows or Macintosh), but on smart-phone or slate PC (Android or iOS). The basic concept of this application is “get real-time climate view anywhere and anytime.”



# himawari 8

NICT SCIENCE CLOUD

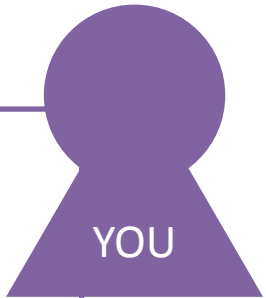
SunFlower ひまわり hoa hướng dương  
向日葵 해바라기 bunga matahari  
ดอกทานตะวัน

Asia-Oceania Online Users Forum  
Himawari-8 Real-time Web Application





# Easy Procedure

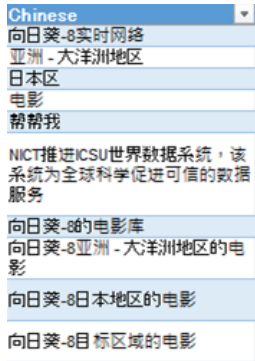


Send me e-mail

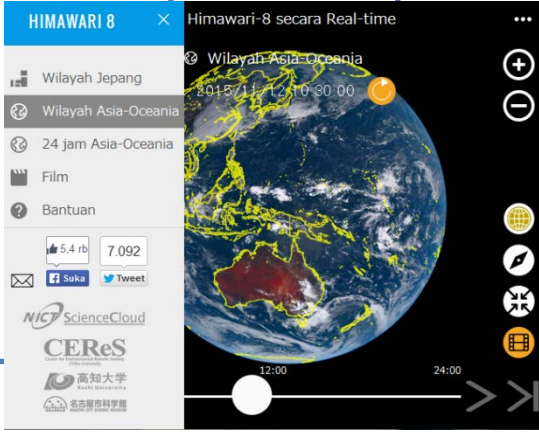
Send you a word list format

Send me back a word list

Translation  
(10 or 20 words only!)



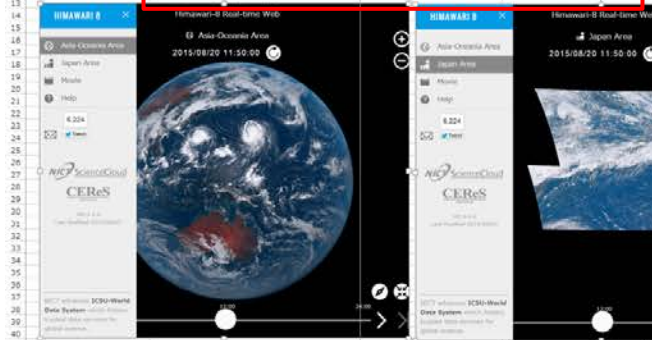
Implementation on Himawari-8 Web



# Multi-Language Sheet



	Text(English)	Chinese	Filipino	French	German	Indonesian	Japanese	Korean	Malay	Thai	Vietnamese
Field	Text(English)	Chinese	Filipino	French	German	Indonesian	Japanese	Korean	Malay	Thai	Vietnamese
Application name	Himawari-8 Real-time Web	向日葵-8实时网络	Himawari-8 Real-time Web	Himawari-8 en temps réel Web	Himawari-8 Echtzeit-Web	Himawari-8 Real-time Web	ひまわり8号リアルタイムWeb	히마わり8 실시간 웹	Himawari-8 Real-time Web	Himawari-8 实时网络	Himawari-8 thời gian thực Web
Menu/Title	Asia-Oceania Area	亚洲-大洋洲地区	Asia-Oceania Lugar	Asie-Océanie Région	Asien-Ozeanien Bereich	Asia-Oceania di Area	アジア・オセアニア地域	아시아-오세아니아 지역	Asia-Oceania Amerika Syarikat	Châu Á-Châu Đại Dương Diện tích	Himawari-8 thời gian thực Web
Menu/Title	Japan Area	日本区	Japan Lugar	Japan Surface	Japan Bereich	Jepang di Area	日本区	일본 지역	Jepun, Amerika Syarikat	Nhật Bản Area	Himawari-8 thời gian thực Web
Menu	Movie	电影	Pelikula	Film	Film	Film	映画	영화	Film	Phim	Himawari-8 thời gian thực Web
Menu	Help	帮帮我	Tulong	Aidez-Moi	Hilfe	Membantu	ヘルプ	도움주세요	Bantuan	ช่วยเหลือ	Himawari-8 thời gian thực Web
Menu	NICT advances ICSU-World Data System which fosters trusted data services for global science	NICT推进ICSU世界数据系统，该系统为全球科学促进可信的数据服务	NICT paglago ICSU-World Data System na nagdudulot mapagkakatiwalaang serbisyo ng data para sa mga global na agham	NICT favorise les services de données fiables pour la science mondiale	NICT rüstet ICSU-World Data System, die große Datenmenge für den globalen Wissenschaf	NICT lancaran ICSU Dunia Data System yang meningkatkan layanan data dunia untuk ilmu pengetahuan global yang	NICTは、信頼できる科学データの共有国際的に推進する。ICSU-WDS (国際科学会議:世界科学データ)	NICT는 글로벌 과학에 대한 신뢰할 수 있는 데이터 서비스를 촉진할 수 있는 ICISU-WDS (국제 과학 회의 시스템)을 전	NICT pendahuaan ICSU Dunia Sistem Data yang meningkatkan perkhidmatan data yang dipercayai untuk sains global	NICT tiến CSU thế hệ thông số mà thúc đẩy các dịch vụ dữ liệu đáng tin cậy cho khoa học toàn cầu	Himawari-8 thời gian thực Web
Movie	Himawari-8 Movie Library	向日葵-8的电影库	Himawari-8 Movie Library	Himawari-8 Film Perpustakaan	Himawari-8-Filmbibliothek	Himawari-8 Asia-Oceania di Area	ひまわり8号 映画全庫動画	히마わり8 영화 라이브러리	Himawari-8 Perpustakaan Movie Amerika Syarikat	Himawari-8 amonang Pelikula	Himawari-8 thời gian thực Web
Movie	Himawari-8 Asia-Oceania Area movie	向日葵-8亚洲-大洋洲地区的电影	Himawari-8 Asia-Oceania Area movie	Himawari-8 Film Persekitaran Asia-Oceania	Himawari-8 Asien-Ozeanien Ecoe Film	Himawari-8 Asia-Oceania di Area	ひまわり8号 地域全庫動画	히마わり8 지역 영화 라이브러리	Himawari-8 cecairan Persekitaran Asia-Oceania	Himawari-8 vùng miền Phim	Himawari-8 thời gian thực Web
Movie	Himawari-8 Japan area movie	向日葵-8日本地区的电影	Himawari-8 Japan area movie	Himawari-8 au Japon film de la zone	Himawari-8 Japan-Bereich Film	Daerah film Himawari-8 Jepang	ひまわり8号 日本区動画	히마わり8 지역 영화 라이브러리	Himawari-8 Jepun film kawasan	Himawari-8 vùng miền Phim	Himawari-8 thời gian thực Web
Movie	Himawari-8 Target area movie	向日葵-8目标区域的电影	Himawari-8 Target area movie	Himawari-8 cible film de la zone	Himawari-8 Target Bereich Film	Film Himawari-8 Sasaran daerah	ひまわり8号 標的圏動画	히마わり8 대상 영화 라이브러리	Himawari-8 Sasaran	Himawari-8 vùng miền Phim	Himawari-8 thời gian thực Web



Text(English)	Chinese	Filipino
Himawari-8 Real-time Web	向日葵-8实时网络	Himawari-8 Real-time Web
Asia-Oceania Area	亚洲-大洋洲地区	Asia-Oceania Lugar
Japan Area	日本区	Japan Lugar
Movie	电影	Pelikula
Help	帮帮我	Tulong
NICT advances ICSU-World Data System which fosters trusted data services for global science	NICT推进ICSU世界数据系统，该系统为全球科学促进可信的数据服务	NICT paglago ICSU-World Data System na nagdudulot mapagkakatiwalaang serbisyo ng data para sa mga global na agham
Himawari-8 Movie Library	向日葵-8的电影库	Himawari-8 Movie Library
Himawari-8 Asia-Oceania Area movie	向日葵-8亚洲-大洋洲地区的电影	Himawari-8 Asia-Oceania Area movie
Himawari-8 Japan area movie	向日葵-8日本地区的电影	Himawari-8 Japan area movie
Himawari-8 Target area movie	向日葵-8目标区域的电影	Himawari-8 Target area movie



# himawari 8

NICT SCIENCE CLOUD

Asia-Oceania Online Users Forum

Himawari-8 Real-time Web Application

SunFlower ひまわり hoa hướng dương  
向日葵 해바라기 bunga matahari  
ดอกทานตะวัน

<http://sc-web.nict.go.jp/himawari/multi-language/>

## What is expected to you:

### 1. Messages Translation

- Translate messages showing up on the web. They are initially in English. Download a CSV file ([here](#)) in which messages are listed in English (and other languages so far translated). Fill up blanks with your own language and send it back [to our office](#). Your kind help will be soon reflected on our web.

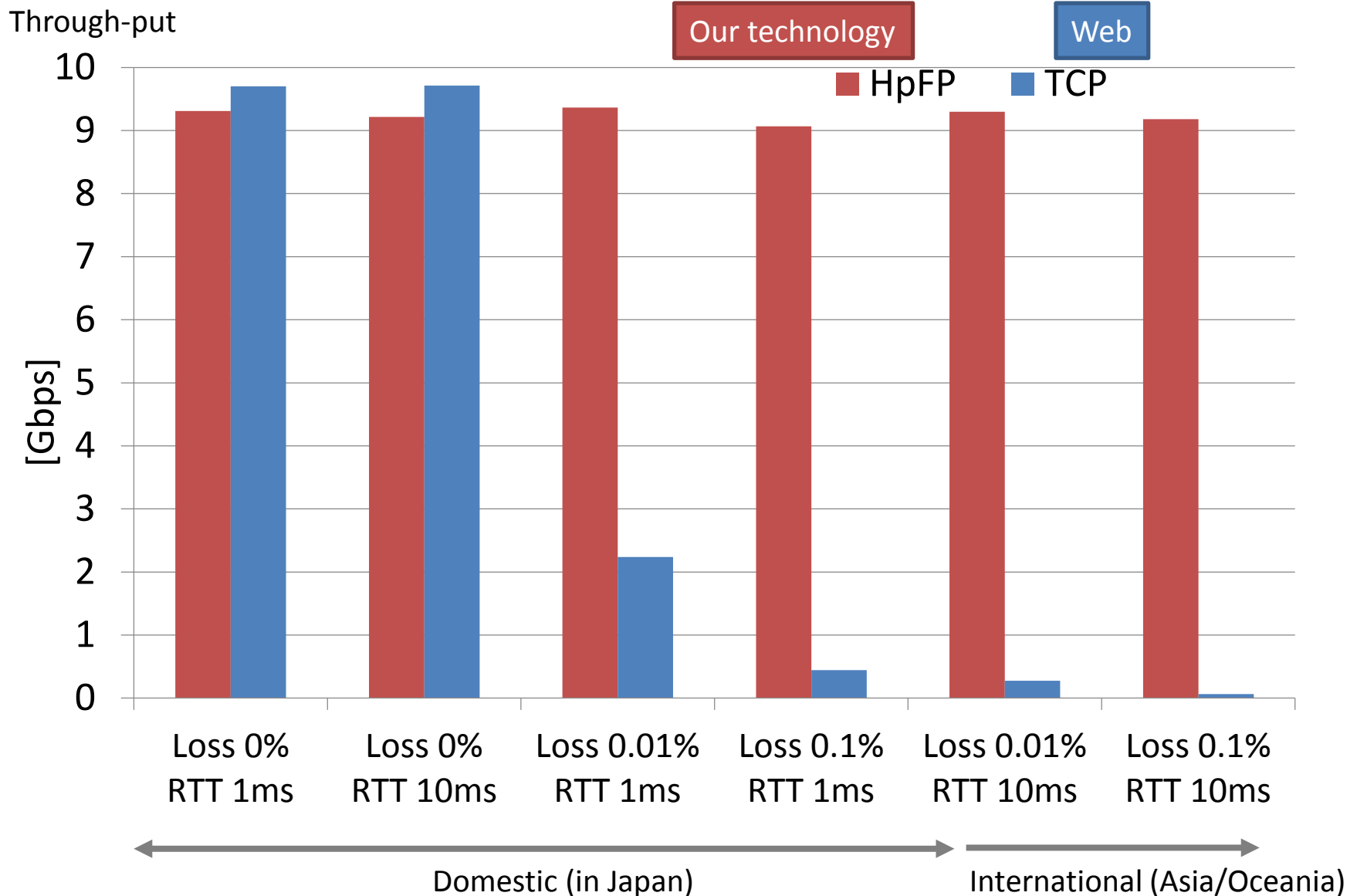
### 2. Country Names Translation

- On our web site, any country name is initially drawn in English. Download CSV file ([here](#)) in which country names (and capital names) are listed in English (and other languages so far translated). Fill up blanks with your own language and send it back [to our office](#). Your kind help will be soon reflected on our web.

### 3. City Names Translation

- Take a look of the following map web site ([MAP](#)) and find city names **within your country**. Note that the descriptions of city names are derived by automatic translation from English; errors must be included. Download a CSV ([here](#)) and edit the incorrect city names **of your country**. Edited file should be sent [to our office](#). Your kind help will be soon reflected on our web.

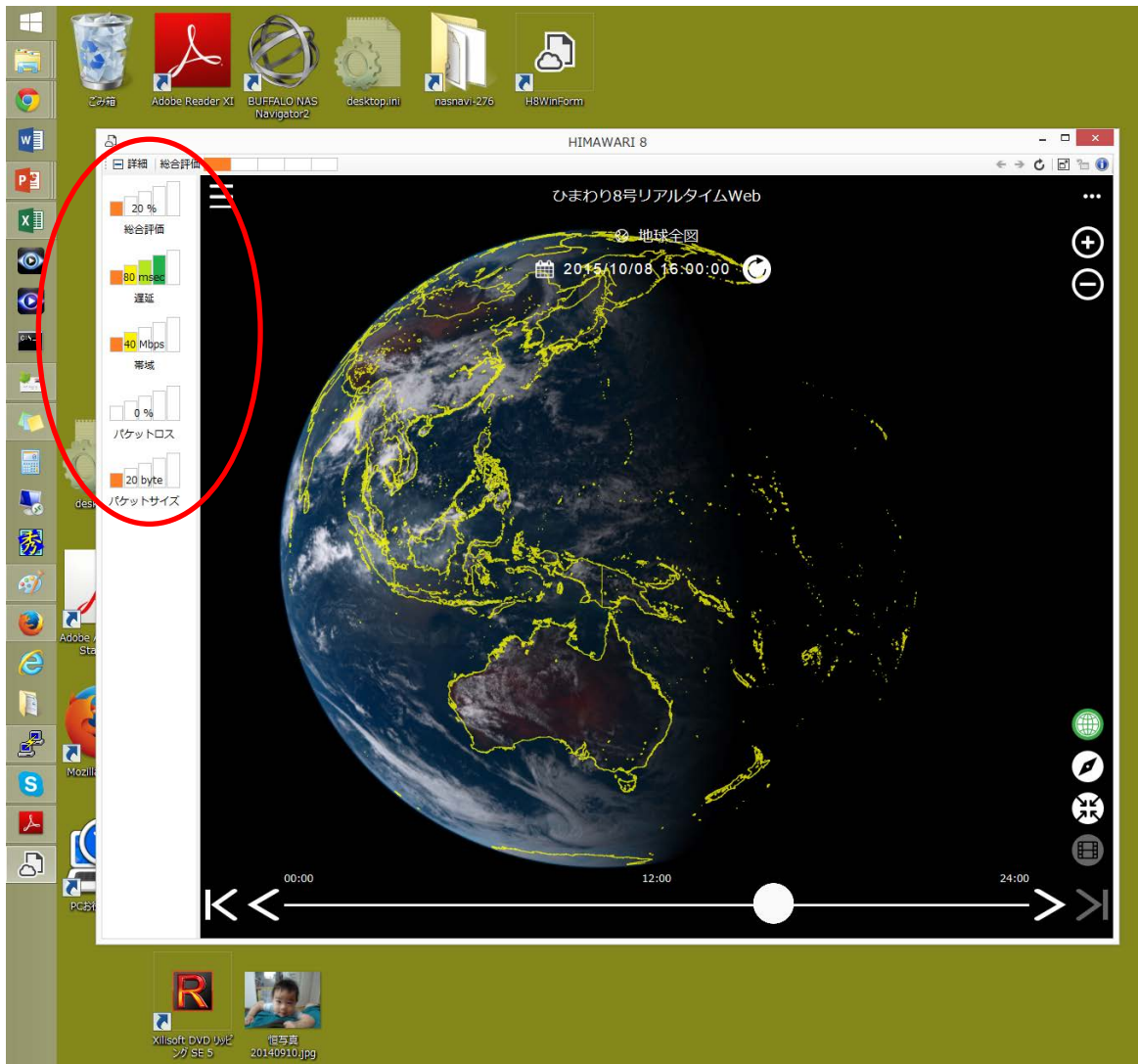
# Another Issue: Network





# Windows application with HpFP (to be released soon)

High-performance even from Asia and Oceania countries!



# himawari8

NICT SCIENCE CLOUD

SunFlower ひまわり hoa hướng dương  
向日葵 해바라기 bunga matahari  
ดอกทานตะวัน

Asia-Oceania Online Users Forum  
Himawari-8 Real-time Web Application

Thank you for your attention!

