

Satellite for River Maintenance

*2 August 2010
Training workshop on riverbank erosion control
at Danang, Vietnam*

JICA Expert Hirotada MATSUKI

GFAS (Global Flood Alert System)

Schematic Figure of GFAS

GFAS

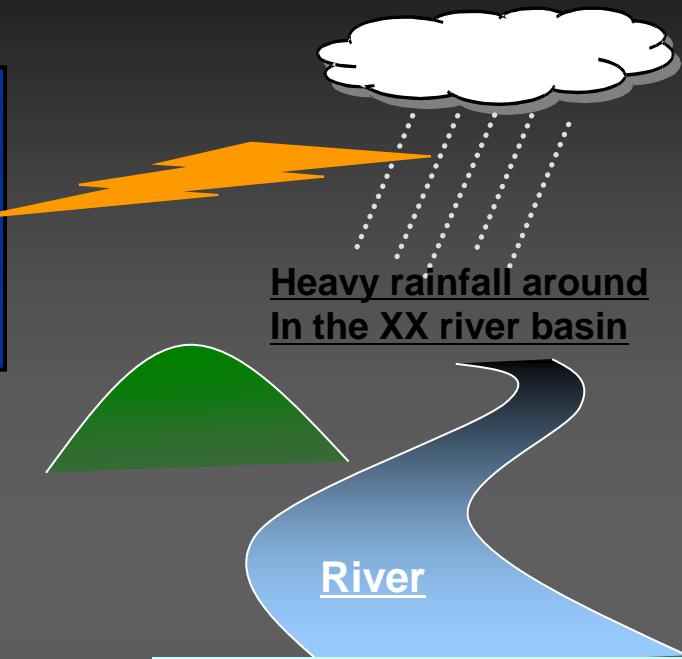
i) Space Agencies

NASA Homepage

```
Obtain data list:  
Data list obtained:  
(1)842RT_2005012621.bin.gz  
(2)842RT_2005012700.bin.gz  
(3)842RT_2005012701.bin.gz  
(4)842RT_2005012702.bin.gz  
(5)842RT_2005012703.bin.gz  
(6)842RT_2005012712.bin.gz  
(7)842RT_2005012713.bin.gz  
(8)842RT_2005012718.bin.gz  
Latest data download completed.  
Latest data check completed.  
(2005/01/28 14:10:37)
```



Observation Satellites



ii) IDI-Japan

Data Download



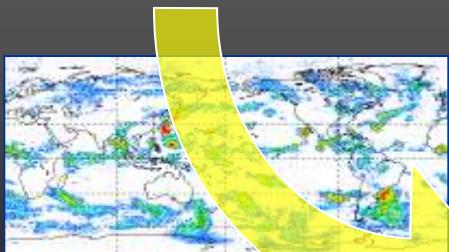
Data Processing



Mapping, Email



System Development



iii) IFNet

1. IFNet Homepage
2. Email of Heavy Rain
to IFNet members in charge of Flood Forecasting and Warning

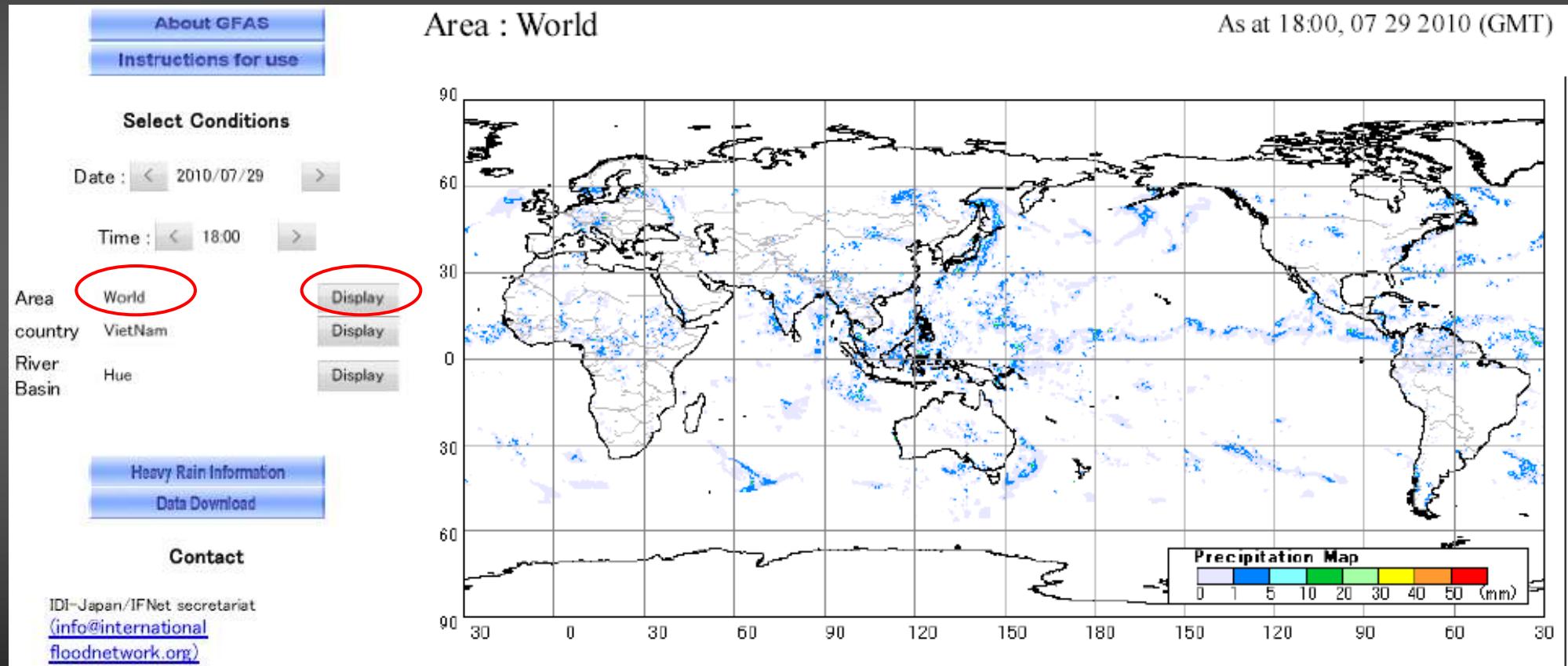


Flood Forecasting and Warning
using GFAS Information etc.

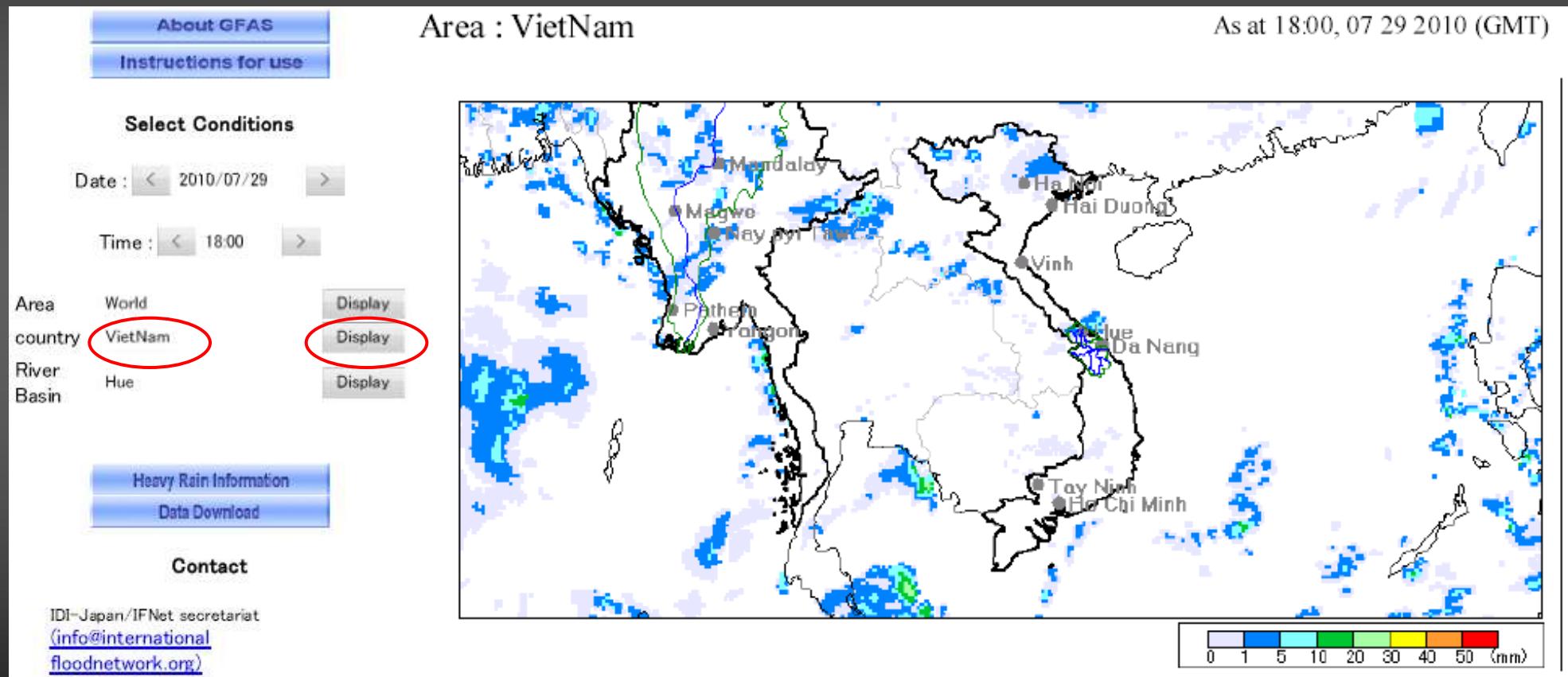


**v) Residents/
NGOs/
Community
leaders**

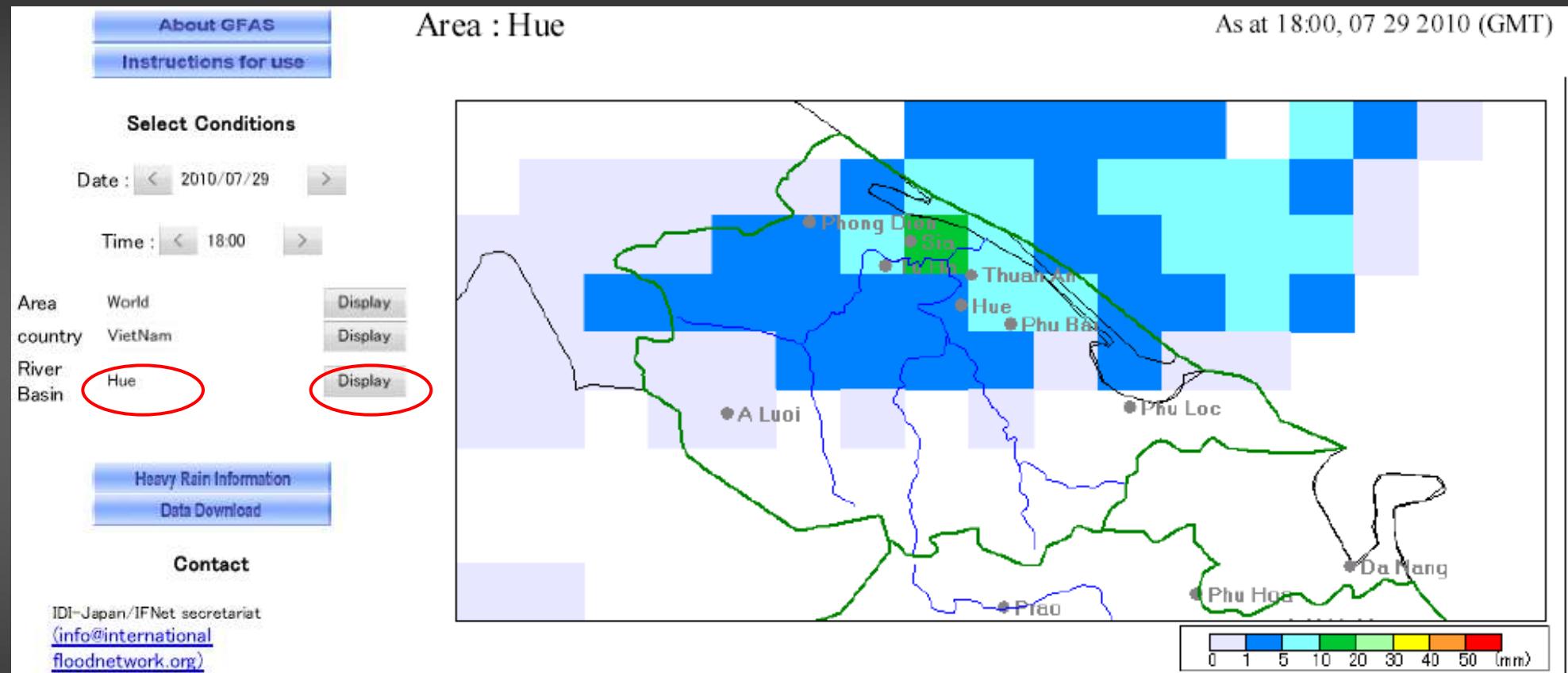
<http://gfas.internationalfloodnetwork.org/n-gfas-web/>
for the world



<http://gfas.internationalfloodnetwork.org/n-gfas-web/>
for Vietnam



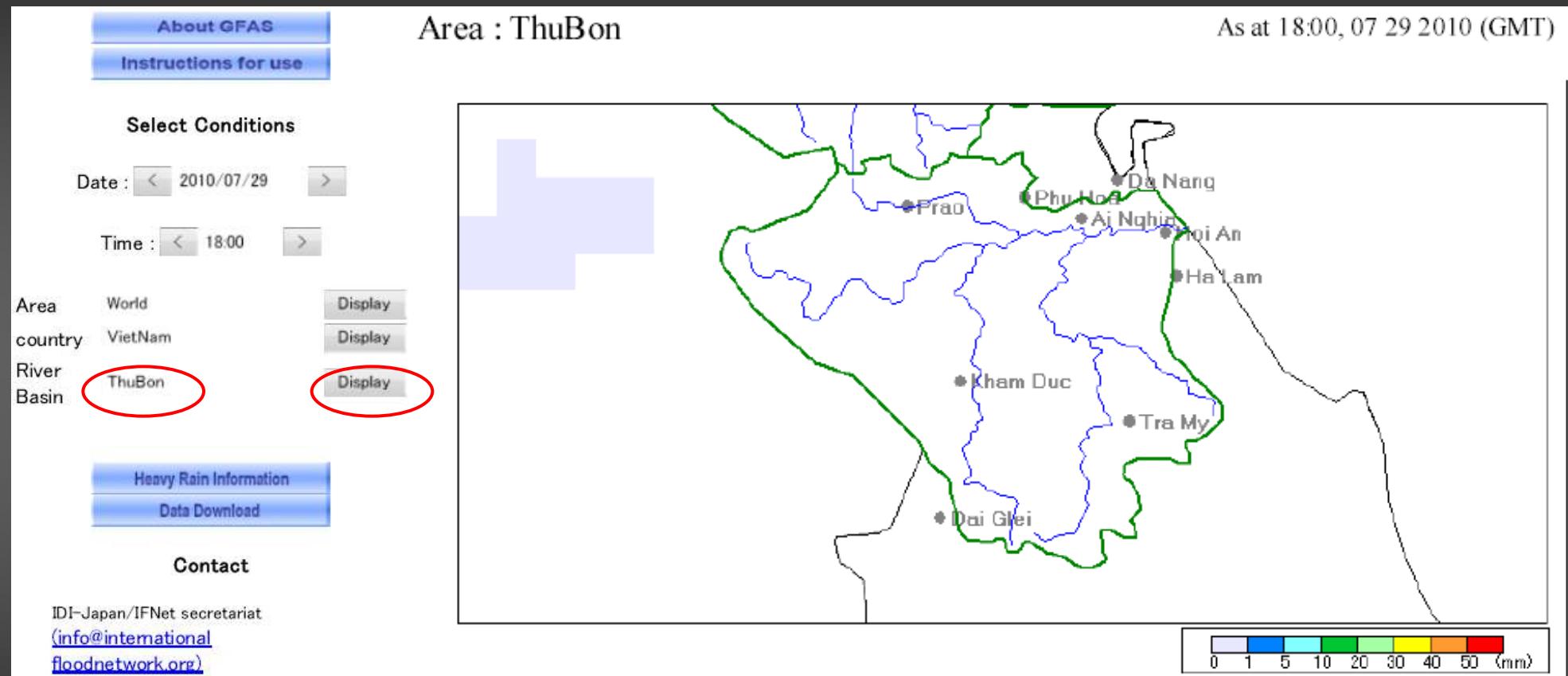
<http://gfas.internationalfloodnetwork.org/n-gfas-web/>
for Huong River



time	biggest[time]	spot name
24-hours within biggest	10.05mm [17:00 - 18:00]	Sia

time	Basin average[time]	biggest[time]	spot name
1-Days cumulative	3.66mm	18.88mm	Thuan An
2-Days cumulative	4.75mm	18.88mm	Thuan An
3-Days cumulative	4.76mm	18.88mm	Thuan An

<http://gfas.internationalfloodnetwork.org/n-gfas-web/>
for Thu Bon River



time	biggest[time]	spot name
24-hours within biggest	3.11mm [5:00 - 6:00]	Xa King

time	Basin average[time]	biggest[time]	spot name
1-Days cumulative	0.71mm	5.71mm	Thon Mung
2-Days cumulative	12.4mm	39.47mm	Prao
3-Days cumulative	12.44mm	39.47mm	A Bach

GFAS for the central Vietnam

from Tokyo



to Vietnam



Alert mail
(sample)

Mua to tren 30mm/gio o vung thuong
nguon luu vuc song Huong va song Thu Bon.
Vao ngay trang web theo dia chi
<http://gfas.internationalfloodnetwork.org/n-gfas-web/>
Lien he van phong So NN&PTNT.

GFAS as a V-J communication tool

to Tokyo



from Vietnam

Request mail
(sample)

Set up a new interface for ** City.**

**The alert is so frequent that you should
reset the alert level as 50mm/h.**

Send e-mails to Matsuki! 2bu01@idi.or.jp

from Tokyo



to Vietnam

ALOS satellite river monitoring

ALOS



***It's aimed to contribute
for land management,
especially disaster
prevention.***

***ALOS: Advanced Land
Observation Satellite
is a Japanese satellite.***





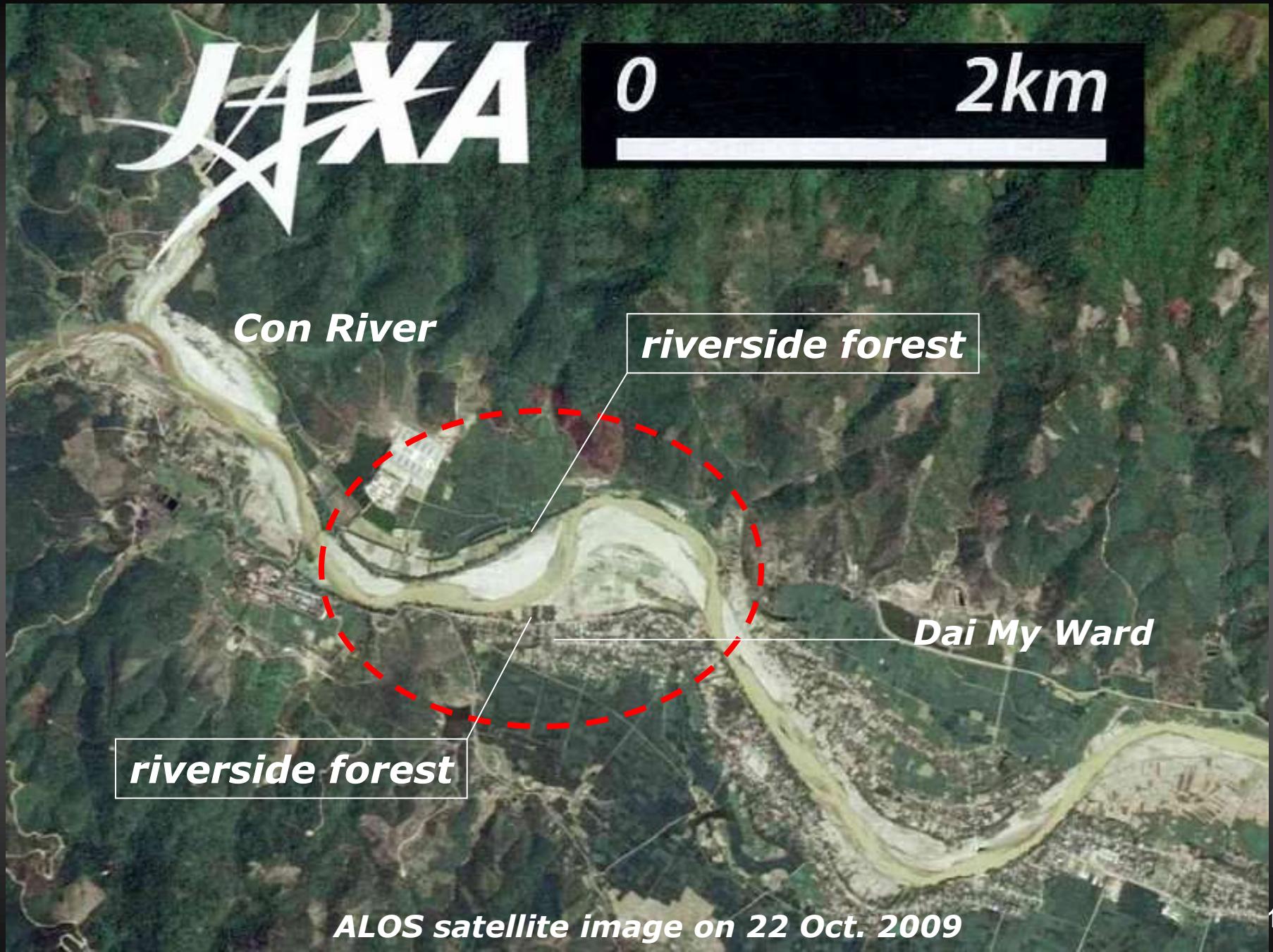
Dai My Ward along Con River after Typhoon Ketsana 2009



Dai My Ward along Con River after Typhoon Ketsana 2009



Dai My Ward along Con River after Typhoon Ketsana 2009





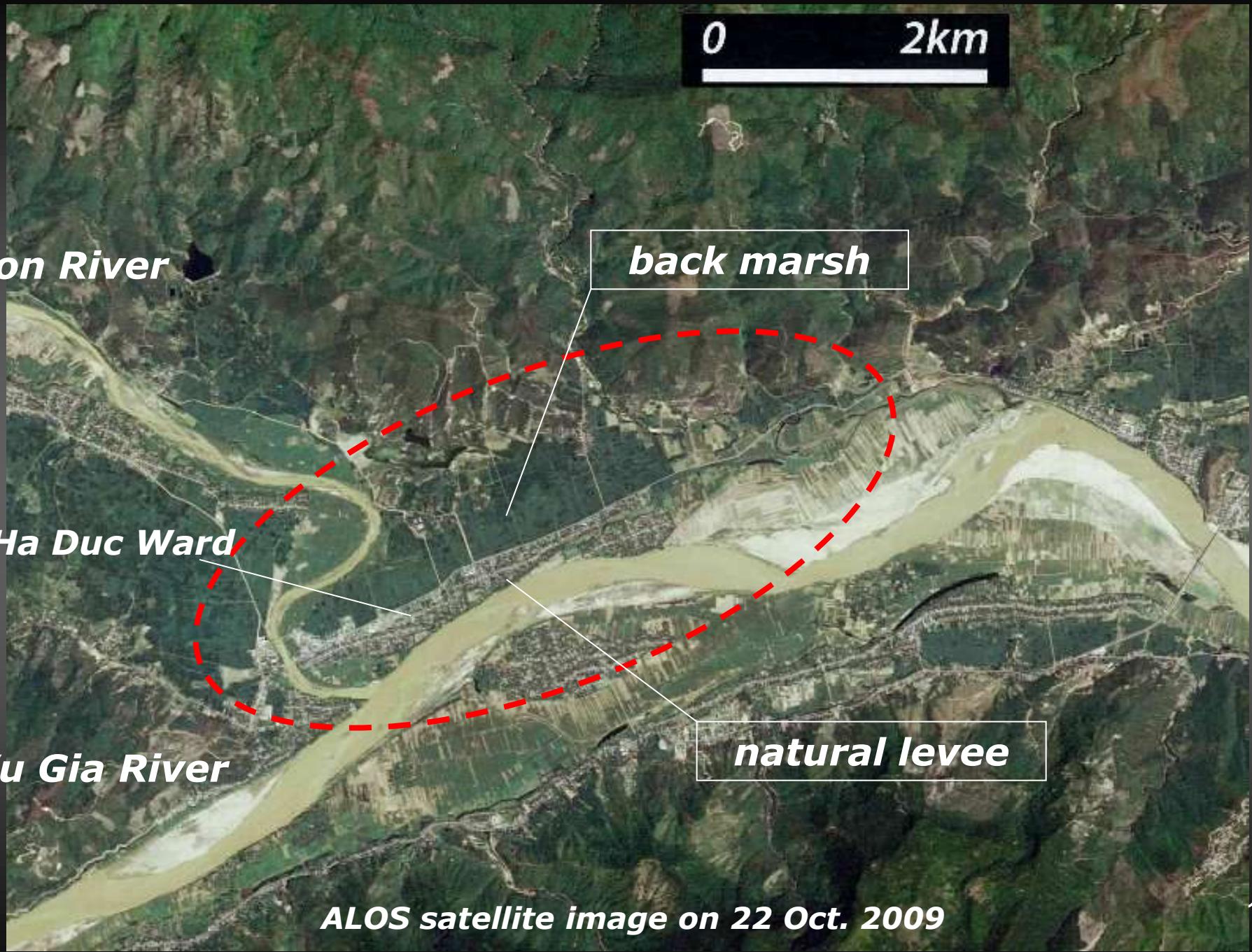
Ha Duc Ward along Vu Gia River after Typhoon Ketsana 2009



Ha Duc Ward along Vu Gia River after Typhoon Ketsana 2009



Ha Duc Ward along Vu Gia River after Typhoon Ketsana 2009



Thanks for your attention.