

HYDROASIA



UNIVERSITY OF INCHEON

Team Red Experience Report



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1 Introduction

Hydro-Asia is an Intensive Research Program within an academic framework, initiated by Tropical Marine Science Institute, National University of Singapore (Singapore) Incheon Regional Environmental Technology Development Center, University of Incheon (South Korea), Disaster Prevention Research Institute and Kyoto University (Japan). Hydro-Asia collaborates closely with HydroEurope managed by the EuroAquae consortium, running the joint master of sciences on 'Hydroinformatics and Water Management' operated jointly by 5 European universities. It is web-based collaborative engineering project in hydro science which involves the international collaboration between students from different countries and universities. This is the first time this kind of program is being organized within this region.

2 Objectives

The main purpose of this program is the flood analysis of Incheon Gyo Watershed using different flood model and eventually to promote a global Asian vision, concepts, methodologists, tools and good practices for a sustainable water management and share high quality teaching courses which in turn help to strengthen links between students from the partner institutions in order to build up and spread the know-how of a sustainable water management in Asia through global and holistic approaches.

3 Team members

Our team comprises of five members very energetic and enthusiastic members from different geographical region with Joon as team leader under the careful supervision of Prof. Gye-Woon, Choi from University of Incheon. The following are the details of each member including their mailing address:

Team Members						
Surname	First Name	Home Country	Current Institution	Email	MSN	Skype
Byeon	Seong joon	Korea	University of Incheon	seongjune@paran.com	semimine@hotmail.com	byeonseongjoon
Ham	Myeong soo	Korea	University of Incheon	hamhem@icnheon.ac.kr	hamhem1981@hotmail.com	
Romano	Michele	Singapore	National University of Singapore	tmsv8@nus.edu.sg	mic_rom@hotmail.it	
Yadav	K. Shobha	Singapore	National University of Singapore	tmssky@nus.edu.sg	yadav_shobha@hotmail.com	shobha1694



Figure 1: Enthusiastic member of Team Red all smiling as always!!

4 Communication

4.1 Before Incheon

The online communication between our team started in early May using internet as a common working platform. For this purpose and for the convenience of all we decided to communicate on MSN messenger. Joon took the lead and initiate the communication among us. First of all we exchange our information and background though the mail and have opportunity to know about each other. All the members are very cooperative and passionate about our work. We decided to meet every Wednesday at feasible time for each teammate. For this purpose we set meeting time at 11 o'clock for Joon, 17 o'clock for Michele and Shobha and 18 o'clock for Ham and formulate the work plan and assigned each member with the particular job task based on their expertise.

4.2 In Incheon

The first face-to-face meeting of the participants took place at University of Incheon R&D Center, Incheon. The first HydroAsia opening ceremony was formally opened by Professor. Gye Woon Choi, Department of Civil and Environmental Engineering, University of Incheon followed by the welcome address by I.P Hong, Vice Mayor of Incheon Metropolitan City and congratulatory address by Y.E. Shin, Member of Incheon Metropolitan City Council.

The first day of the week started with the team presentation on the work progress done during the web collaboration. Each team presentation their progress and further plan for face-to-face week. Accordingly our team also presented the work done till date and further framework for the entire week. Besides that we had very informative and inspirational lectures from Professor. Choi from Incheon University, Prof. S Y Liong from National University of Singapore, Prof. Nakakita from Kyoto University, Prof. D. H. Bae from Sejong University, Prof. Philippe Gourbesville from University of Nice-Sophia Antipolis.

In the course of our face-to-face week we also had field excursion to Incheon Gyo Watershed area. During the trip we visited Dohwa Company where Mr. Kin Yong from Dohwa Company gave us the brief introduction of the project. After that we visited Incheon weather station followed by pipeline construction site at main trunk of left side and then to Incheon Gyo retention pond.



Figure 2: Hydro-Asia group during the field excursion

In spite of very tight schedule and lot of work, our colleagues organized a trip to Seoul on 23rd August afternoon as a part of culture activities. All participants were very excited to

enthusiastic despite of long night and sleepiness. We visited Cheonggyecheon, which is located at the heart of the city.

During the visit we enjoyed the beautiful waterways walk along the bank of river and had the opportunity to see some the historical bridge which still prevailed since the time of its construction. This stream is one of the historical monuments of Korea which is considered as the fortune for the Korean people.



Figure 1: At Cheonggyecheon

Besides all these, our team worked on our project and set some time table and agenda to achieve the target objectives for the final presentation on 24th August 2007. Despite of having different culture, background and level of thinking, each member cooperative each other very well and worked in a harmony.

5 Team rules

In order to have effective communication and balanced work progress we set some rules and strictly follow it. They include:

- Meeting on every Wednesday at 11 o'clock in Denmark, 17 o'clock in Singapore and 18 o'clock in Korea
- If there is an "IDEA" or "PROBLEM" then stop and think... And share with team mates
- Do not hesitate to ask Adviser (Professor Choi) or Team mates for advice.
- Be happy at least once a day ⇒

- Let's takes pride in being team RED!!!

6 Work progress

After setting the objective and overall framework for our study we outlined our work plan as:

1. GIS analysis
2. MOUSE simulation
3. MOUSE+MIKE21 simulation
4. MIKE FLOOD simulation
5. Writing reports and
6. Preparing for the presentation

Once the work plan was set we started to upload and update our work space with the weekly report and documents and easy tutorials.

Weekly Reports

Weekly Reports	Size	Date	Uploader
Weekly Report of Team Red_11-15th June 2007.pdf	11 Kb	26 juin 2007	yadav_ks
Weekly Report of Team Red_week_2 2007.pdf	28 Kb	28 juin 2007	byeon_s
Weekly Report of Team Red_week_3 2007.pdf	12 Kb	9 juil. 2007	byeon_s
Weekly Report of Team Red_week_4 2007.doc	24 Kb	10 juil. 2007	byeon_s
Weekly Report of Team Red_week_5 2007.doc	25 Kb	10 juil. 2007	byeon_s
Weekly Report of Team Red_week_6 2007.doc	24 Kb	10 juil. 2007	byeon_s
Weekly Report of Team Red_week_7 2007.doc	24 Kb	14 août 2007	byeon_s
Weekly Report of Team Red_week_8 2007.doc	24 Kb	14 août 2007	byeon_s
Meeting with Prof. Dickson Bourlesville.pdf	48 Kb	14 août 2007	yadav_ks

The page is dedicated to store all resources collected or produced by the team for carrying out the project.

Data

Importing GIS File into the MIKE21.pdf	1516 Kb	28 juin 2007	byeon_s
preismann scheme1.pdf	221 Kb	17 juil. 2007	byeon_s
How to connect Net meeting.doc	149 Kb	18 juil. 2007	byeon_s
digitized MOUSE File.zip	173 Kb	18 juil. 2007	byeon_s
tingrid25by5.rar	3311 Kb	25 juil. 2007	yadav_ks
tingrid210.zip	1013 Kb	25 juil. 2007	yadav_ks
easyguide for MIKEFLOOD.doc	765 Kb	6 août 2007	byeon_s
ascli files.zip	5352 Kb	7 août 2007	yadav_ks

Field Excursion

Modelling

GIS Analysis Report.pdf	923 Kb	25 juil. 2007	yadav_ks
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Figure 3: Production of weekly reports and documentation

7 Personal experiences

7.1 Joon



We have started working together since 11th of June with meeting only through the web. But we worked positively to meet one another with smiling face. And at last this Sunday we met face to face. During these weeks, Collaborating with new faces is the first experience for me. But new faces were not very unfamiliar; my impression about meeting the others was same

as the impression of meeting friends. Team red which was composed with 5 different people from different country successfully finished our project.

7.2 Ham



I don't have so much knowledge about the program such as MIKE 21 and MOUSE at the first. However, our team red members are very kindly and help me a lot.

We started communicating with our team members using the MSN messenger. During the meeting, I got the chance to meet and work with people of the

different country. And last Monday, We met face to face.

In Incheon, we were very very tired, because we worked lately on GIS, MOUSE and MIKE 21. But we worked positively with smiling face and finished usefully our project.

Thank you for our team friends and our team's adviser Prof. Choi.

7.3 Masahiko



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The project of Hydro Asia is very good because it gave me opportunity to know a lot about different cultures, working in team experience, river and catchment modeling skills such as MOUSE, MIKE21, MIKEFLOOD and GIS. I think this program should be continued in future also.

I would like to thank you all for all these wonderful experiences.

7.4 Michele



Hydro Asia has been a great experience for me. This project is effective professionally and extremely worth for life. I would like to thank you my teammates for the good job done, it was a pleasure and an honour to work and to have fun at the same time with you all, friends. I'll never forget your hospitality and your beautiful country.

7.5 Shobha



gradually.

It is great pleasure and privileged to participate in the first Hydro-Asia project as a pioneer batch as a part of team red. In the beginning when the program started, I was lost and confused whether I can cope with the program objective or not without any background in the water management field. But as the team work started through the internet collaboration and sharing of knowledge began the vision began to clear

It gave us the great opportunity to work in a team spirit with having the teammates from different culture background and geographic region, which is very essential aspects of our professional life. I do not have much knowledge about hydrology and hydraulic software such as MIKE 11, MOUSE, MIKE FLOOD, and MIKE 21, but however this

project helps to have the understanding of them and how to use such software in the real world problem to some extent specially the GIS.

From my perspective, I think HydroAsia is a good platform of sharing knowledge with colleagues from different countries working in harmony and wonderful environment for a similar goal.

Besides these I had a great time here and a wonderful day on the opening ceremony itself. It was because of my birthday that day. Our colleagues organized a small party with cake for me and celebrated my birthday with all. For this I would like to extend my heartfelt thanks to all of them for making me feel at home and taking care of me despite of busy schedule and my food. Being a vegetarian was not a problem at all.



Figure 4: Shobha's Birthday Party

8 Conclusion

To sum up, the first Hydro-Asia has been very enriching and gave us the real life experience. It helps us to visualize the real life problem and provide the feasible solution rather than the theoretical solutions. We would like to thank the organizer and all professors for their inspirational and motivational knowledge. At the end we all would like to thank each member of the team for being so cooperative and for the sincere effort towards the fulfillment of the experience of a life time. Moreover, we would like to thanks all the Hydro-Asia participants and other colleagues who directly or indirectly helped us during our work and take care of us very much.

“Life is promise fulfill it”

- Mother Teresa

Appendix: Some memorable memories



Experiencing Korean flavours !!!



White is nice !!!



Joon translating into english!!!

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Lecture time !!!



Having dinner with professors !!!



Great job Joon !!!



Keep it up !!!

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River Cheonggyecheon in the heart of the city !!!



Historical bridge at Cheonggyecheon



Relax time...so tired!!!



Keep on going guys!!!