Minutes of SEAMERGES KickOff meeting, Bangkok, March 3-5, 2004-03-03

NB. The following minutes reflect results of discussions leading to refinements and adjustments of the original project schedules and planning.

Afterthoughts, comments on these draft minutes should be reported through the SEAMERGES Emailing (general) list before march 17th 2004

Day1

Self intro:

Chulalongkorn, Thailand

- Dr Chugiat, PhD from Ohio state univ., Earth gravity field from sat to sat tracking, GPS for high precision positioning.
- Dr Thongthit Chayakula, Univ. college London, Radar Imagery and Lidar
- Dr Itthi, PhD from Melbourne univ., GIS, high res. Satellite imagery for mapping
- Chalermchon Satirapod, PhD Univ of New South Wales Australia, GPS data processing

RTSD

- Capt Sarayut Yousamran, graduated from Chula, geodesy department
- 2nd lt. Didsaphan Nahsen, Engineering department

ITB, Indonesia

- Hasanuddin, PhD univ. New Brunswick, geodesist working on volcano deformation and land subsidence monitoring, represents Professor Joenil Kahar
- Kosasih Prijatna, graduate from ITB and Ohio state univ., physical geodesy.

UTM, Malaysia

- Samad Abu, master and PhD from UTM,
- Kamaludin Omar, UTM, geodesist work on malaysian geodetic datum (cadastre and gravity)
- DEOS, Holland
 - Boudewijn Ambrosius, graduated from DUT Aerospace engineering, Space Geodesy GPS
 - Marc Naeije, graduated DUT Aerospace engineering, Space Oceanography, mainly altimetry
 - Wim Simons, DUT Aerospace engineering, GPS data acquisition and processing

ENS, France

- Christophe Vigny, PhD from Paris University, geophysicist : numerical modelling of the Earth mantle, GPS applied to plate tectonics

Institution presentations

- DEOS (B. Ambrosius) = PPT presentation => Web site
- ENS (C. Vigny) = PPT presentation => Web site
- Chulalongkorn (C. Wichienchaoren) = PPT presentation => Web site
- ITB (Hassanudin) = PPT presentation => Web site
- UTM (Kamaludin) = PPT presentation => Web site
- RTSD (capt. Sarayut) = PPT presentation => Web site

Introduction by Wim Simons (=> slides on Web page). Main points :

3 seminar & workshop given by EC participants

- general processing/analysis/modeling/interpretation
- GPS 5 weeks by W. Simons and C. Vigny in Thailand
- INSAR 3 weeks by C. Lasserre in Malaysia
- SALT 3 weeks by M. Naeije in Indonesia
- 4 persons of each ASEAN partner participate in each event
- Hosting partner welcome to send up to 6 additional persons

3 multi-disciplinary (CAR) GPS/INSAR/SALT projects

- subject of importance to ASEAN partners, joint effort
- each ASEAN partner has 2-4 person working on each project
- gps field demo in thailand (10 days)
- 3 persons of each asean partners make a work visit in ASEAN (14 days)
- 1 person of each asean partners make a work visit to Europe (1 month)
- 3 EC participants make extra visit to 1 ASEAN partner (14 days)

planned activities, locations and dates

- master PC operational	Netherland	April 2004
- PC system operational	Thailand	before May 2004
- GPS workshop	Thailand	May 2004
- PC system operational	Malaysia	before July 2004
- INSAR workshop	Malaysia	July 2004
- PC system operational	Indonesia	before August 2004
- SALT workshop	Indonesia	August 2004
- GPS field experiment	Thailand	October 2004

planned meetings

KO	Thailand	March 2004
1 st progress	Malaysia	January 2005 (3 days)
2 nd progress	Indonesia	June 2005 (3 days)
final symposium	Thailand	November 2005 (3 days)
final report	all	January 2006

Workshop agendas :

Process :

- 1. the hosting institution aproves/defines the precise date of the workshop in its own country in close relation with the "teacher"
- 2. other partners agree on the proposed date
- 3. dates are advertised to everyone (on web sites)

the whole process will be finished march 17th

general frame :

- GPS = May in thailand ok
- INSAR = July in Malaysia ok
- SALT = end august beginning of september in Indonesia ok

Progress meetings :

3 days each

3 persons from each partner, especially non administrative... objectives :

- status of teaching. Enough ? not enough ? more to teach ?
- status of CAR.
- allow time for "teacher-student" interactions (not only administration)

Seminars/Workshop students : (combination of day1 and day2)

- All agree to send people who won't disappear too fast after the end of the project => "young" and "enthousiastic" staff people (teaching and research) more than undergrad students should attend the seminars
- Possibly some of the "students" (1 per participating country, out of 4 ?) should register to all 3 workshops/seminars to establish strong links and develop network. Not mandatory of course.
- List of participants should be established and closed for **march 17th**, same dead line than for dates and precise format of workshop/seminars. 1 page CVs/motivations of participants are expected before this date to asses level and background of participants.
- agreement on the system 1 unit = ~ 20 hours = 6 times 3 hours by half days
- 1 course is 1 unit of theory + 1 unit of training
- GPS is 2 units of theory + 2 units of training, INSAR is 1+1, SALT also 1+1
- Hosting institutions should make sure they prepare everything needed for the lessons (rooms, computers, conference room, beamer, etc...)
- Number of people attending practical **training sessions** should be limited for efficiency. Suggestion is 3x4 internal + 4 externals = 16 p total max.
- the general frame of 5, 3, 3 weeks is adjusted to 4, 2, 2 in order to "reduce the load" and allow teaching and research staff (all with busy agendas) to attend the lessons. 1 week is 5 working days (for the teacher).
- M. Naeije will send an inquiry list to hosting institutions to list specific PCs requirements/specifications and make inventory of what is available.
- In general, people should attend the whole course. Sharing between 2 people may be considered under special circumstances but is not encouraged.

Day2

- GPS seminar/workshop presentation 1 : W Simons
- GPS seminar/workshop presentation 2 : C Vigny
- SALT seminar/workshop presentation : M Naeije
- INSAR seminar/workshop presentation : C Vigny (on behalf of C. Lasserre)

All .ppt presentations => on SEAMERGES Web page

CAR presentation (W. Simons, slides on Web page)

NB. These projects are meant to practice the skills acquired during the seminars/workshops and serve as stepping stones for future research projects.

Subsidence (C. Lasserre for Europe, Kamaludin for ASEAN)

- INSAR project on 3 capitals Bangkok, Jakarta, KualaLumpur = test cases
- input levelling, GPS, SALT, tide gauges measurements when available

GPS (C. Vigny for Europe, Prof. Chugiat for ASEAN)

- almost no money / no time to create new data so concentrate on adding value to existing data set. Only small scale field measurements in the framework of the GPS-Demo in Thailand.
- create a SEAMERGES GPS data base = the data already put in common by the participants (thanks to DSMM/RTSD/BAKO/ITB) which allow to generate "DEOS/ENS" present day ASEAN solution, so-called SEAMERGES solution. This data base will have 3 levels :
 - o Raw data (RINEX files) to allow re-processing of part or total of the data set
 - SINEX campaign files to allow combination of solutions
 - Velocity tables to allow to play with extraction of block rotation and fault deformation patterns at all scales
- Softwares to process GPS data, unify geodetic datums, compute rotation poles, elastic deformation, co-seismic stress increase and manuals will be included in the database.

SALT : (M. Naeije for Europe, Prijatna for ASEAN)

- No creation of new data. Inventory of models and data in the area
- Tidal modelling (in shallow sea water) improvement from data assimilation (SALT, Tide gauges, ...) in the ASEAN area.
- Asses ability of mapping of wet lands

SEAMERGES WEB site demonstration (M. Naeije)

- <u>http://www.deos.tudelft.nl/seamerges</u>
- main medium for project communication
- Subscribe to the mailing list
- Send additional suggestions to web master
- A counter will be added to asses and demonstrate the project impact

PROMOTION AND MEDIA EXPOSURE

- In addition to Workshop/seminar, each "teacher" will give a general conference (one hour, broad audience).
 - Hosting institution should organize and advertize the conference.
 - The conference could be any time during the duration of the workshop/seminars
 - EU representative in the country should be invited
- Logo design, brochure, flyers, ...
- Partners should consider giving SEAMERGES presentation at the (inter)national conferences they plan to attend
- consider sending someone from SEAMERGES to ASEAN conference for remote sensing in ChangMai, Thailand, mid november 2004.

Final Symposium

- -
- 2-3 days for congress + 1 day for internal SEAMERGES discussions location : Bangkok. Tentative date 28-30th November 2005 (Monday-Wednesday) -
- we want to attract external attendance => early notice/flyers/advertisement (EOS ?) -
- invitated talks by external experts (but no budget for that) -
- 5 persons (funded by SEAMERGES) from each country. -
- At least 1 presentation/poster on each of the 3 CAR _
- check international meetings occurence to avoid overlap _

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