

**SIXTH INTERNATIONAL SYMPOSIUM
ON GIS/SPATIAL ANALYSES
IN FISHERY AND AQUATIC SCIENCES**
TAMPA, FLORIDA, USA.
AUGUST 25 (MON) - 29(FRI), 2014

TAMPA MARRIOTT WESTSHORE

PROGRAM

(AS OF AUGUST 21, 2014)



[ORGANIZER]

INTERNATIONAL FISHERY GIS SOCIETY

[LOCAL CO-ORGANIZER]

FLORIDA SEA GRANT AND FISHERIES AND AQUATIC SCIENCE PROGRAM, UNIVERSITY OF FLORIDA

[ORGANIZERS AND CONVENERS]

International Fishery GIS Society

(<http://www.esl.co.jp/Sympo/outline.htm>)

Representatives and Conveners: Dr Tom Nishida and Dr Kiyoshi Itoh

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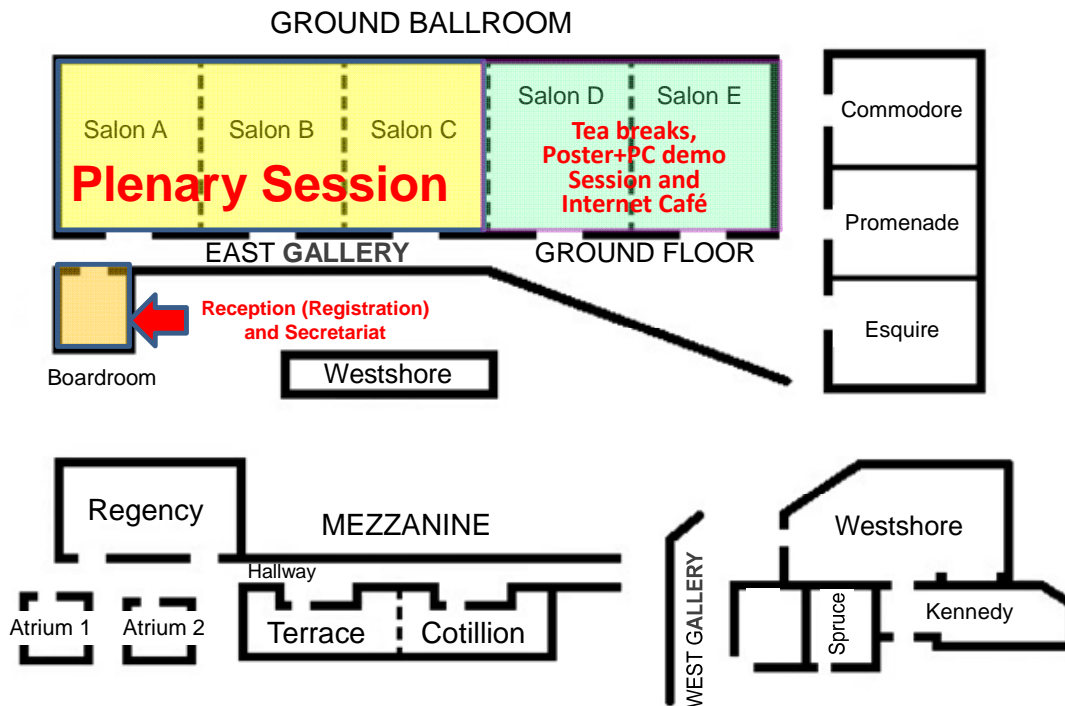
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Meeting rooms and Registration (TAMPA MARRIOT WESTSHORE)



FIRST THING YOU MUST DO WHEN YOU COME TO THE MEETING VENUE

GO TO the Reception desk (Boardroom) and **do Registration**

- Tell the receptionist your last name and registration number
- Pay the registration fee if you have not yet paid
- Register if you will attend “Ice breaking cocktail party (Aug 25, Mon)” and/or “Symposium dinner (Aug 27, Wed)”
- Get one large envelop including your nameplate, Abstract proceedings, Program (this booklet) and others.
- Please hang your nameplate for all time (for ID and Security)

Boardroom

Secretariat office

Boardroom (Foyer)

Reception desk

Salon A-C

Plenary Session

(Openings, Oral presentations, Panel discussion and Closings)

Salon D-E

(Tea breaks, Poster/PC demo Sessions and 2 free PCs for participants)

FREE WI-FI ARE AVAILABLE IN THE MEETING AND YOUR ROOMS IN TAMPA MARRIOT WESTSHORE

[ORAL PRESENTERS] SALON A-C

You have 30 minutes including your talk and Q&A. We suggest that you will present for 20-25 minutes and save 5-10 minutes for Q&A. The total must be 30 minutes or less. Time keeper will make ONE RING in 20', TWO RINGS in 25' and MANY RINGS in 30' then the Moderator will stop your presentation and Q&A.

We prepare one common laptop PC (Windows 7 and PowerPoint 2010) at the podium for oral presentation. **Please install your PowerPoint files in advance before the plenary starts at 9AM, during coffee breaks or lunch time.**

[POSTER PRESENTERS AND PC DEMONSTRATORS] SALON D-E

Both poster presentations and PC demonstrations will be held in Salon D-E (see page 3). This session will occur two times, i.e., 2 afternoons (Tuesday and Wednesday) as in indicated in the program (see page 5 and 7-8). The size of your poster is A0 (width 841 mm x height 1,189mm). We will provide the poster stands and sticking materials such as push-pins, tapes etc. For PC demonstrations, we will provide Tables, chairs and AC powers (120V) with 60Hz (frequency).

[HELPERS AND RECEPTIONISTS]

Date		Microphone distributors		Time keeper	Photographers			Receptionist	
					Plenary	ice breaking party	Dinner		
25	Mon	(110) CLARK	(48) APPELMAN	(84) Odaira	(75) Yamaguchi	(75) Yamaguchi	/	Ms Kimura	MsYamazaki
26	Tue	(44) KILFOIL	(48) APPELMAN	(2) Koike	(84) Odaira				Ms Yamazaki (AM) Ms HAM (PM)
27	Wed	(1) Edwards	(43) YAO	(84) Odaira	(75) Yamaguchi	(75) Yamaguchi			Ms Ham
28	Thu	(110) CLARK	(44) KILFOIL	(75) Yamaguchi	(78) TOJO				
29	Fri	(43) YAO	(1) Edwards	(2) Koike	(75) Yamaguchi				

OUTLINE OF THE PROGRAM

	August, 2014				
	25(Mon)	26(Tue)	27(Wed)	28(Thu)	29(Fri)
08:30-18:00	Registration (Reception desk, Board room)				
09:00-09:30	Registration	Habitat and Habitat modellings (3)	RS (satellite) (3)	Geostatistics, resources analyses and predictions (3)	MPA and spatial planning (3)
09:30-10:00	Openings				
10:00-10:30					
10:30-11:00	Coffee breaks				
11:00-11:30	Systems (3)	Habitat and Habitat modellings (3)	RS (acoustics) (2)	Fisheries and Management (3)	Management (Lake) (3)
11:30-12:00					
12:00-12:30			Habitat policy (1)		
12:30-14:00	Lunch				
		GROUP PHOTO			
		SET up Posters & PC			
14:00-14:30	Systems (3)	Habitat and Habitat modellings (3)	Geostatistics, resources analyses and predictions (3)	Fisheries and Management (3)	Panel discussion (sum-up session)
14:30-15:00					
15:00-15:30					
15:30-16:00	Coffee breaks	Poster (20) and software PC demo (6) session (with coffee & tea)		Coffee breaks	
16:00-16:30	Systems (2)			Fisheries and Management (2)	Closings
16:30-17:00					
17:00-19:00	Ice breaking cocktail party (pool side and Jr Ballroom)	dismantle posters and PCs			
19:00-21:00				Symposium dinner (Pool side and Jr. Ballroom)	

**Ice breaking cocktail party and Symposium dinner
(Pool side and Junior Ballroom for a break room)**



Day 1: August 25 (Monday)							
Photographer YAMAGUCHI (75)							
Time Keeper ODAIRA (84)							
Microphone distributors APPELMAN (84) and CLARK (110)							
Time	Subject	Moderator	Title	Presenter	Country	Reg. no	Abstract page #
08:30 - (all day)	Registration : Reception desk (Board Room)						
9:30-10:30	Openings	RUBEC (47)	Welcome speeches	ITOH (Organizer)	Japan	73	
				SWETT (Local co-organizer)	USA	36	
			Remarks	NISHIDA (Convener)	Japan	72	
10:30-11:00	Coffee breaks						
11:00-11:30	System (3)	BARKAI (29)	The development and deployment of a real-time electronic by-catch reporting solution for the Northeast US scallop fleet	BARKAI	S. Africa	29b	3
11:30-12:00			GCOOS WebGIS: Lionfish distribution map and near real-time oceanic glider mission viewer	KOBARA	USA	53	4-5
12:00-12:30			Development Of Electronic Logbooks Linked To GPS, VMS, and Data Loggers To Support Collection Of Spatially Explicit Data On Shrimp Fishing Vessels	RUBEC	USA	47d	6
12:30-14:00	Lunch						
14:00-14:30	System (3)	TAYLOR (64)	Ten years of development and operation of the HABCAM instrument system	TAYLOR	USA	64	7
14:30-15:00			Gulf of Mexico Data Atlas: digital Data Discovery and Access	ROSE	USA	4	8-9
15:00-15:30			Real-time Monitoring system of underwater environment by the Ultrasonic wave technology	ITOH	Japan	73	10
15:30-16:00	Coffee breaks						
16:00-16:30	System (2)	TAYLOR (64)	Fisheries are not only about fish: The Information System on Small-Scale Fisheries (ISSF)	DEVILLERS	Canada	67	11
16:30-17:00			Research and development of South China Sea fisheries information dynamic collection and real-time automatic analysis system based on GPS, GIS and RS integration	Yan	China	13	12-13
17:00-19:00	Ice breaking cocktail party. (Pool side and Jr. Ballroom for a break room)						

Day 2: August 26 (Tuesday)							
Photographer ODAIRA (84)							
Time Keeper KOIKE (2)							
Microphone distributors APPELMAN (84) and (44) KILFOIL							
Time	Subject	Moderator	Title	Presenter	Country	Reg. no	Abstract page #
08:30 - (all day)	Registration : Reception desk Board Room						
09:00-09:30	Habitat and Habitat modelling (3)	TOJO (78)	Combing GIS Data and Species Distribution Models to Highlight the Role of Landscape Scale Factors in the Decline of an Endemic Great Plains Cyprinid	WORTHINGTON	USA	19	17
09:30-10:00			Linking Oceanographic Modeling and Benthic Mapping With Habitat Suitability Models For Pink Shrimp On The West Florida Shelf	RUBEC	USA	47c	18
10:00-10:30			Spatial analysis of the dynamics of benthic species distribution in relation to their environment: The case of pink shrimp (<i>Parapenaeus longirostris</i> , Lucas 1864) in the Northern Morocco Atlantic area.	HOUSSA	Morocco	39b	19
10:30-11:00	Coffee breaks						
11:00-11:30	Habitat and Habitat modelling (3)	SONG (28)	Modelling the Atlantic bluefin tuna feeding and spawning habitats from the Mediterranean Sea to the Gulf of Mexico: an ecological niche approach	DRUON	EU	26	20
11:30-12:00			An integrated habitat index for albacore tuna (<i>Thunnus alalunga</i>) in waters near the Cook Islands based on the quantile regression method	SONG	China	28	21
12:00-12:30			Contrasting the habitat and fishing conditions of Skipjack in the Western and Central Pacific between Two Types of El Niño	YEN	Taiwan	33	22
12:30-14:00	Group photos => Lunch						
14:00-14:30	Habitat and Habitat modelling (3)	MONTES (60)	An Evaluation Of Transferability of Habitat Suitability Models Between Tampa Bay and Charlotte Harbor, Florida	RUBEC	USA	47b	23
14:30-15:00			Mapping right whales and recreational vessels co-occurrence in the Southeastern United States	MONTES	USA	60	24-25
15:00-15:30			Geo-located migration patterns of fish at a front	STENSHOLT	Norway	111	26
15:30-17:30	Posters (20) and PC demo (6) session (with coffee & tea) Presenters should be at-site for explanations/demos and Q&A						

Day 3: August 27 (Wednesday)							
Photographer YAMAGUCHI (75)							
Time Keeper ODAIRA (84)							
Microphone distributors EDWARDS (1) and YAO(43)							
Time	Subject	Moderator	Title	Presenter	Country	Reg. no	Abstract page #
08:30 - (all day)	Registration : Reception desk Board Room						
09:00-09:30	RS (acoustics) (3)	SASAKURA (79)	Effect of depth, distance from bank, bottom steepness, underwater light intensity and diel cycle on fish spatial distribution in a freshwater reservoir	MUŠKA	Czech	32	30-31
09:30-10:00			Integrating acoustic telemetry and GIS techniques in fisheries research	DUTKA-GIANELLI	USA	104	32
10:00-10:30			Underwater Remote Thermometer FRTD-600	SASAKURA	Japan	79	34-35
10:30-11:00	Coffee breaks						
11:00-11:30	RS (satellite) (2)	ESCUDERO (96)	Evaluation of pelagic resources using GIS in Peruvians waters	ESCUDERO	Peru	96	29
11:30-12:00			Habitat preferences of Indian mackerel from the Red Sea coast of Yemen	ALABSI	Yemen	21	33
12:00-12:30	Habitat Policy (1)		Use of Variable Data Resources for Implementing Fish Habitat Policy in the United States	PARKES	USA	108	36-37
12:30-14:00	Lunch						
14:00-14:30	Geostatistics, resources analyses and predictions (3)	CONAN (59)	SAMPLING DESIGN, MAPPING AND ASSESSING BY GEOSTATISTICS MADE CLEAR	CONAN	Canada	59a	38
14:30-15:00			USE OF ArcGIS TO CREATE CPUE SPATIAL METRIC WITH RESPECT TO THE WESTERN NORTH ATLANTIC PELAGIC LONGLINE MIXED TUNA AND SWORDFISH FISHERY	APPELMAN	USA	48	39
15:00-15:30			Development of Zero-Inflated Models To Support Habitat Suitability Modeling and Mapping of Species Distributions In Tampa Bay, Florida	RUBEC	USA	47a	40
15:30-16:45	Posters (20) and PC demo (6) session (with coffee & tea) Presenters should be at-site for explanations/demos and Q&A						
by 17:00	[IMPORTANT] As hotel has some function in Salon D-E(our Poster/PC demo area) from 5PM, posters and PCs need to be very quickly dismantled by 5PM						
17:00-19:00	Free time						
19:00-21:00	Symposium dinner (Pool side and Jr Ballroom for a break room). All registrants are invited. For not registrants (e.g., your spouse and/or friends), please pay US\$40 (cash) at the reception desk in Board room by August 25 (Mon).						

Day 4: August 28 (Thursday)							
Photographer TOJO (78)							
Time Keeper YAMAGUCHI (75)							
Microphone distributors CLARK (110) and KILFOIL (44)							
Time	Subject	Moderator	Title	Presenter	Country	Reg. no	Abstract page #
08:30 - (all day)	Registration : Reception desk Board Room						
09:00-09:30	Geostatistics, resources analyses and predictions (3)	KNOUFT (5)	Impacts of Projected Future Stream Flows on the Reproductive Success of the Rio Grande Silvery Minnow	PORTER	USA	49	43
09:30-10:00			The Impacts of Climate Change on the Hydrology and Biodiversity of the Mobile River Watershed in the Southeastern United States	KNOUFT	USA	5	44
10:00-10:30			Forecasts of swordfish (<i>Xiphias gladius</i>) and common sardine (<i>Strangomera bentincki</i>) off Chile under the A2 IPCC climate change scenario	SILVA	Chile	16	45
10:30-11:00	Coffee breaks						
11:00-11:30	Fisheries and management (3)	NDEGWA (103)	The use of GIS TOOLS to quantify trawling activities impacts on marine bottoms Study Case: Moroccan Atlantic EEZ	HOUSSA	Morocco	39a	46-47
11:30-12:00			A new and operational approach to holistic management of fisheries for multiple commercial species and ecosystem objectives	BARKAI	S. Africa	29a	48
12:00-12:30			Improvement of management of fisheries through spatial mapping of the fishing grounds	NDEGWA	Kenya	103	49
12:30-14:00	Lunch						
14:00-14:30	Fisheries and management (3)	SWETT (36)	Are Mooring Buoys Effective for Managing Vessel Anchoring and Coral Reef Impacts in South Florida?	SWETT	USA	36	50
14:30-15:00			Can market price prevent overfishing? Spatial bioeconomic simulation in the Seychelles sea cucumber fisher	KOIKE	USA	2	51
15:00-15:30			Shallow benthic fisheries management; a multidisciplinary approach integrating bathymetric LiDAR and diving footprint	Jalali	Australia	14	52-53
15:30-16:00	Coffee breaks						
16:00-16:30	Fisheries and management (2)	SWETT (36)	Participatory GIS concept as a co-management measure in marine fisheries for evolving and implementing management options	PUTHIYA-PURAYIL	India	25	54-55
16:30-17:00			Delineation and Geo-Spatial Mapping of Some Fisheries Dependent Village around River Kaduna Downstream at Zungeru using Geographical Information System and Remote Sensing	IBRAHIM	Nigeria	65a	56

Day 5: August 29 (Friday)								
Photographer YAMAGUCHI (75)								
Time Keeper KOIKE (2)								
Microphone distributors EDWARDS (1) and YAO(43)								
Time	Subject	Moderator	Title	Presenter	Country	Reg. no	Abstract page #	
08:30 - (all day)	Registration : Reception desk (Board Room)							
09:00-09:30	MPA + Spatial planning (3)	BENJAMIN (3)	Economic Impact of Offshore Wind Development on Atlantic US Fisheries	BENJAMIN	USA	3	59	
09:30-10:00			Spatial Distribution and Conservation of Speckled Hind and Warsaw Grouper in the Atlantic Ocean off the Southeastern U.S.	FARMER	USA	12	60-61	
10:00-10:30			Using Spatial Decision Support Tools to Promote Participatory Planning	CRUZ	Belize	68	62	
10:30-11:00	Coffee breaks							
11:00-11:30	Management (Lake) (3)	OSTROVSKY (40)	The long-term changes of the fish community and fisheries in a large subtropical lake	OSTROVSKY	Israel	40	63	
11:30-12:00			Influence of Physico-chemical Conditions on Abundance of Fish Species in Tagwai Lake, Minna, Nigeria	Chukwuemeka	Nigeria	10	66	
12:00-12:30			Environmental Impact Assessment of aquaculture in Minna Metropolis, using Geographic Information System and Remote Sensing	IBRAHIM	Nigeria	65b	64-65	
12:30-14:00	Lunch							
14:00-15:30	Panel discussion (Sum-up session)	Chair MEADEN (UK) (7) and Chief Rapporteur BENJAMIN (3)	The objectives of this Session are to highlight progress on 5 themes and to discuss ways to move forward. Each panelist will review all relevant presentations in this Symposium and summarize trends in the assigned themes (see below). There will be discussion from the floor that will help demonstrate where fishery GIS/spatial analyses should now be going.					
			Themes	Panelist and Rapporteur	Country	Reg. no		
			THEME (1) ECOSYSTEM APPROACH	CAROCCHI	FAO	15		
			THEME (2) HABITATS	RUBEC	USA	47		
			THEME (3) INTEGRATED SYSTEM UNDER GIS PLATFORM	ITOH/TOJO	Japan	73/78		
			THEME (4) GEOSTATISTICS	CONAN	Canada	59		
			THEME (5) FUTURE GIS AND CHALLENGES	MEADEN	UK	7		
Each panelist needs to complete in 15-20 minutes including 10-15 minutes for presentations and 5-10 minutes for discussions with the floor. At the end, the Chair will make the presentation on the global summary of the panel discussion in 10 minutes. All panelists and the Chair need to provide the summary of the presentations and discussions to the Chief Rapporteur by Sept. 8 by e-mails. Then the Chief rapporteur will make the report of the panel discussion by Sept 15 then send it to the Secretariat of International Fishery GIS Society by e-mail. This report will be included in the Symposium Proceedings as in the past.								
15:30-16:00	Coffee breaks							
16:00-16:30	Closings	RUBEC (47)	Last remarks and the future	NISHIDA (Convener)	Japan	72		
			Farewell speech	SWETT (Local co-organizer)	USA	36		

List of Software/Systems demonstration with PC

Demonstration date and time: Aug 26 (Tue) and Aug 27 (Wed) (15:30-16:45) (with coffee and tea)
Presenters should be at-site for demos and Q&A

Presenter	reg no.	county	Subjects	Title	Abstract page #
Barkai	29b	S. Africa	Reporting system	The development and deployment of a real-time electronic by-catch reporting solution for the Northeast US scallop fleet	69
ROSE	4	USA		Gulf of Mexico Data Atlas: digital Data Discovery and Access	70-71
Barkai	29a	S. Africa	Integrated software	A new and operational approach to holistic management of fisheries for multiple commercial species and ecosystem objectives	72
Conan	59b	Canada		SAMPLING DESIGN, MAPPING AND ASSESSING BY GEOSTATISTICS MADE CLEAR, THE SOFTWARE	73
Taylor	64	USA	Monitoring system	Ten years of development and operation of the HABCAM instrument system	74
ITOH	73	Japan		Real-time Monitoring system of underwater environment by the Ultrasonic wave technology	75

List of poster presentations

Display period: 15:30 Aug 26 (Tue) to 16:45 Aug 27 (Wed)

Presentation date and time(IMPORTANT) : Aug 26 (Tue) and 27 (Wed) (15:30-16:45) (with coffee & tea)
Presenters should be at-site for explanations and Q&A

Subject	Reg #	Presenter	Country	Title	Abstract page #
Habitat (6)	22	MALAGON	USA	Using GIS to map the spatial distributions and abundance of Summer Flounder and its major prey organisms in the Maryland Coastal Bays	79
	110	CLARK	USA	Evaluating the relationship between habitat heterogeneity and Panulirus argus Virus 1 (PaV1) prevalence in the Caribbean spiny lobster	80-81
	113	ZHU	China	The oscillation mode analysis on the time series of Antarctic krill catch rate in the Atlantic Sector of Antarctic Ocean	82
	102	Hollensead	USA	Monitoring movement of southern flounder (Paralichthys lethostigma) to elucidate residency time and migration patterns in a North Carolina estuary	83
	82	ZHANG	China	Noise dependent fish distribution in kelp beds	84
	78	TOJO	Japan	Analyses in diet variation of Scomber japonicus along the North African Atlantic Coast using spatial "ecology-oceanographic" database	85
Ecosystem (4)	105	PEASE	USA	Population responses of Guadalupe bass Micropterus treculii to potential hydrologic impacts of urbanization within the Colorado River Basin, central Texas	86
	24	BRINTON	USA	Movement patterns of the Atlantic Stingray Dasyatis sabina in tidal creeks near Savannah, Georgia	87
	93	NEYRA	Peru	Habitat properties of jack mackerel and horse mackerel in the Peruvian coast through the industrial fleet using GIS	88-89
	47c	RUBEC	USA	Linking Oceanographic Modeling and Benthic Mapping With Habitat Suitability Models For Pink Shrimp On The West Florida Shelf	90
	52	NWOSU	Nigeria	Mapping the artisanal fisheries of the Niger Delta, Nigeria using Geographic Information System	92
Resources Analysis and Management (5)	83	GUO	China	Temporal pattern of coilia nasus biomass along the Jingjiang section of the Yangtze River over the last decade	93
	107a	NÓBREGA	Brazil	Essential habitats for abundance and richness of fishes on the continental shelf of Rio Grande do Norte, Northeastern Brazil	94-95
	107b	NÓBREGA	Brazil	Ichthyofaunal bathymetric distribution of the continental slope basin of Rio Grande do Norte, Northeastern Brazil	96-97
	47d	RUBEC	USA	Development Of Electronic Logbooks Linked To GPS, VMS, and Data Loggers To Support Collection Of Spatially Explicit Data On Shrimp Fishing Vessels	98
	54 (78)	OULMALEM (TOJO)	Morocco	Spatial comparison of relative abundance and environmental scenarios in the fishing area of Northwestern African Atlantic Ocean using standardized sardine (Sardina pilchardus) CPUE from observer data	99
Geostatistics, Forecasting and Modeling (2)	76	Struve	USA	Using GIS-based fish habitat indicators to examine the importance of habitat availability and fishing activity on fish population distributions and recreational fisheries management	100
	63	OUEHABI	Morocco	Physical Modeling of moroccan Upwelling System	101
Marine Reserves (1)	37	RAMOS	Spain	Use of new technologies (bioacoustics and GIS) to analyze interactions between bottlenose dolphin and fish farms in "Serra Gelada" Marine Reserve (Alicante, Spain)	102

Summary of presentations					
registration number	Last name	Country	oral	poster	PC demo
2	KOIKE	USA	1		
3	BENJAMIN	USA	1		
4	ROSE	USA	1		1
5	KNOUFT	USA	1		
10	Chukwuiemeka	Nigeria	1		
12	FARMER	USA	1		
13	YAN	China	1		
14	JALALI	Australia	1		
16	SILVA	Chile	1		
19	WORTHINGTON	USA	1		
21	ALABSI	Japan	1		
22	MALAGON	USA		1	
24	BRINTON	USA		1	
25	PUTHIYAPURAYIL	India	1		
26	DRUON	EU (Italy)	1		
28	SONG	China	1		
29	BARKAI	South Africa	2		2
32	MUŠKA	Czech Republic	1		
33	YEN	Taiwan	1		
36	SWETT	USA	1		
37	RAMOS	Spain		1	
39	HOUSSA	Morocco	2		
40	OSTROVSKY	Israel	1		
47	RUBEC	USA	4	2	
48	APPELMAN	USA	1		
49	PORTER	USA	1		
52	NWOSU	Nigeria		1	
53	KOBARA	USA	1		
54	OULMALEM	Morocco		1	
59	CONAN	Canada	1		1
60	MONTES	USA	1		
63	OUEHABI	Morocco		1	
64	TAYLOR	USA	1		1
67	DEVILLERS	Canada	1		
68	CRUZ	Belize	1		
73	ITOH	Japan	1		1
76	STRUVE	USA		1	
78	TOJO	Japan		1	
79	SASAKURA	Japan	1		
82	ZHANG	China		1	
83	GUO	China		1	
93	NEYRA	Peru		1	
96	ESCUDERO	Peru	1		
102	HOLLENSHAD	USA		1	
103	NDEGWA	Kenya	1		
104	DUTKA-GIANELLI	USA	1		
105	PEASE	USA		1	
107	NÓBREGA	Brasil		2	
108	PARKES	USA	1		
110	CLARK	USA		1	
111	STENSHOLT	Norway	1		
113	ZHU	China		1	
total			41	19	6

FIVE THEMES

THEME (1) ECOSYSTEM APPROACH

- (1a) Ecosystem approaches to Fisheries and Aquaculture (EAF and EAA)
- (1b) Marine Spatial Planning (MSP) and Marine Protected Areas (MPA)
- (1c) Ecosystem based fishing operations and modelling
- (1d) Climate change effects
- (1e) Other relevant topics

THEME (2) HABITATS

- (2a) Habitat modelling (HSI, ENFA, MxENT and other spatial habitat models)
 - HSI* : *Habitat Suitability Index*
 - ENFA* : *Ecological Niche Factor Analysis*
 - MxENT* : *Maximum-entropy approach*
- (2b) Forecasting fishing and oceanographic conditions
- (2c) Other relevant topics

THEME (3) INTEGRATED SYSTEMS UNDER GIS PLATFORM

- (3a) Network & communication systems with web-, mobile-GIS, ICT & other technology
 - ICT* : *Information and Communication Technology*
- (3b) Real-time monitoring systems using Remote Sensing, data-loggers and Theme (3a)
- (3c) Socio-economics (benefit) concerned systems: fishing ground prediction, site selections for mariculture and aquaculture and etc.
- (3d) Other relevant topics

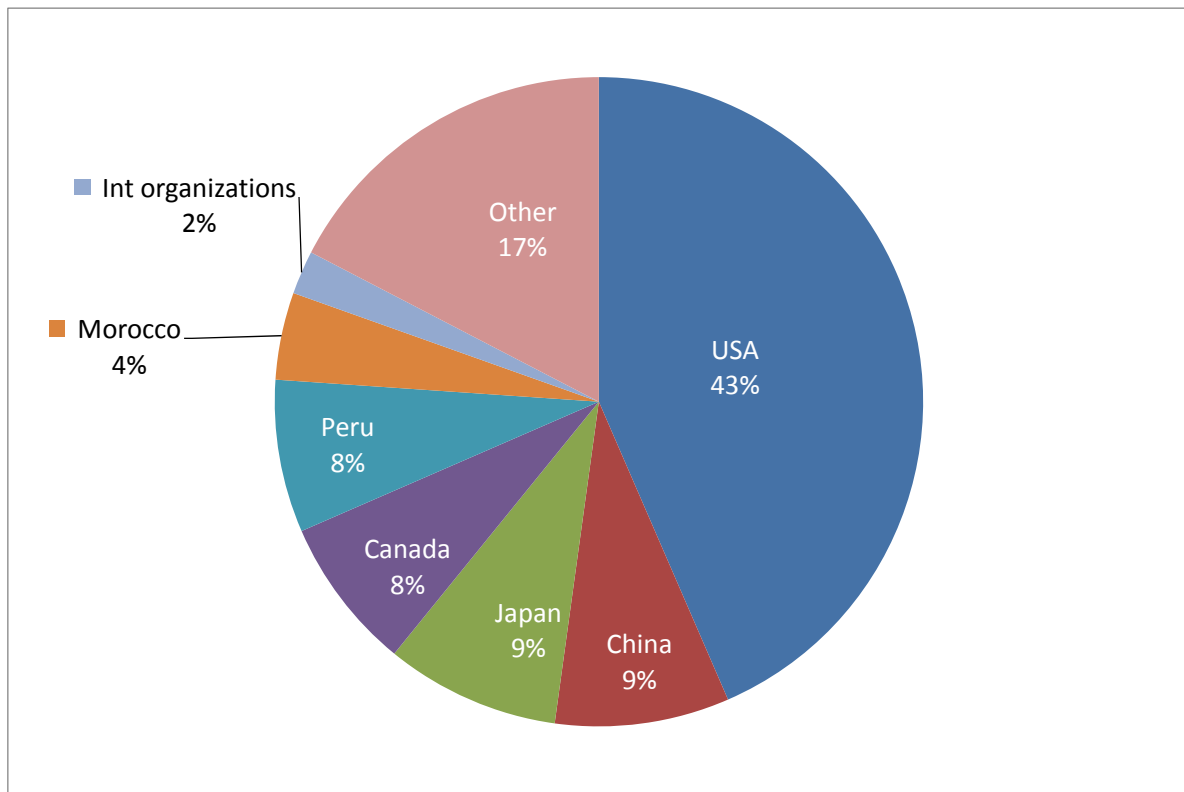
THEME (4) GEOSTATISTICS

- (4a) Estimating abundance and distributions
- (4b) Space based stock assessments
- (4c) Other relevant topics

THEME (5) FUTURE GIS AND CHALLENGES

- (5a) GIS for ALL: Participatory GIS and GIS face books
- (5b) GIS/Spatial analyses in data poor situations
- (5c) Enhancing Theme (3): integrated system under GIS platform
- (5d) Where are our next directions after this symposium?
- (5e) Other relevant topics

Number of participants: 92 (21 countries, EU and FAO)



Country	number
USA	40
China	8
Japan	8
Canada	7
Peru	7
Morocco	4
Nigeria	2
FAO	1
EU	1
Australia	1
Belize	1
Brasil	1
Chili	1
Czech	1
Eretria	1
India	1
Israel	1
Kenya	1
Norway	1
South Africa	1
Spain	1
Taiwan	1
UK	1
Total	92

[DRESS CODE] Smart casual

Not too formal, but not too casual (rough). Neckties and suits are not required unless you wish.

[LANGUAGE] ENGLISH

We use only English (English English, American English, Australian English.....) for communications, presentations, Q&A, Abstracts, formal papers and all the other matters relevant to the Symposium.

Presenters and all participants (IMPORTANT)

Please speak slowly and clearly as nearly 50% of participants are non-native English speakers

[AC POWER AND PLUG TYPE]

AC powers (120V) and 60Hz (frequency). Plug type is "A" (see below).



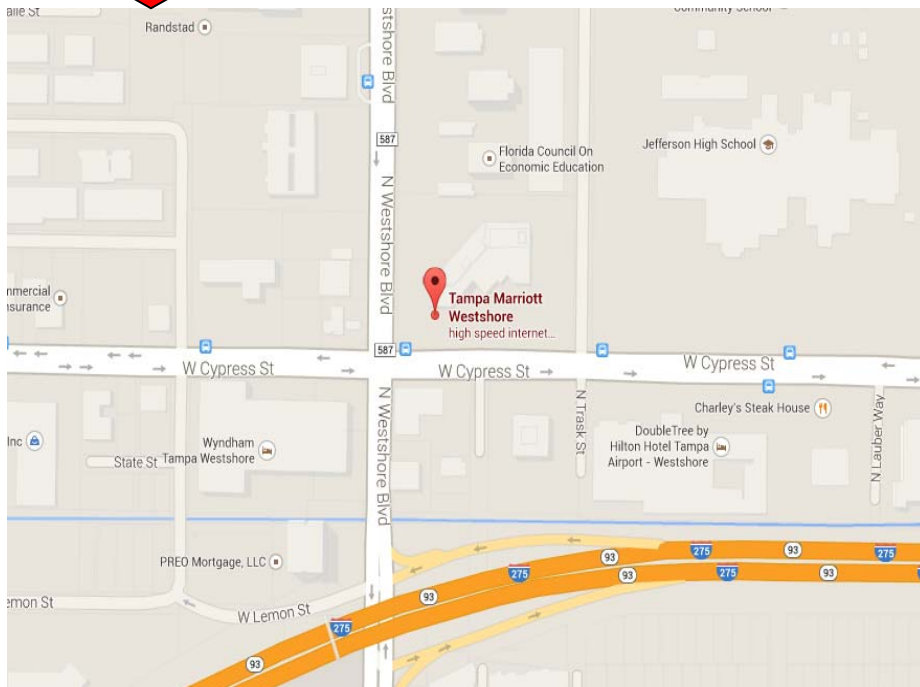
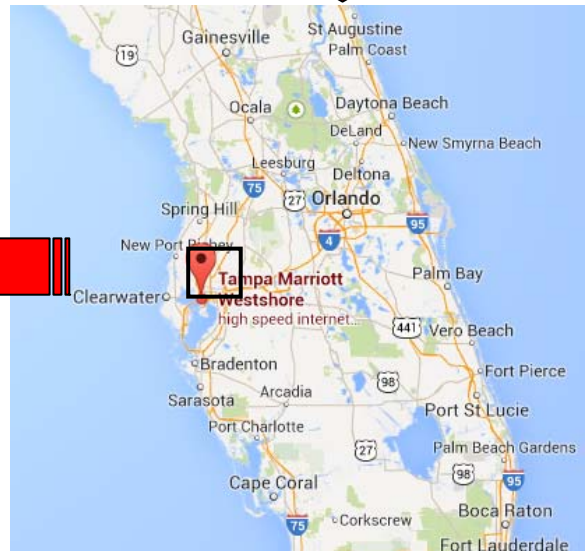
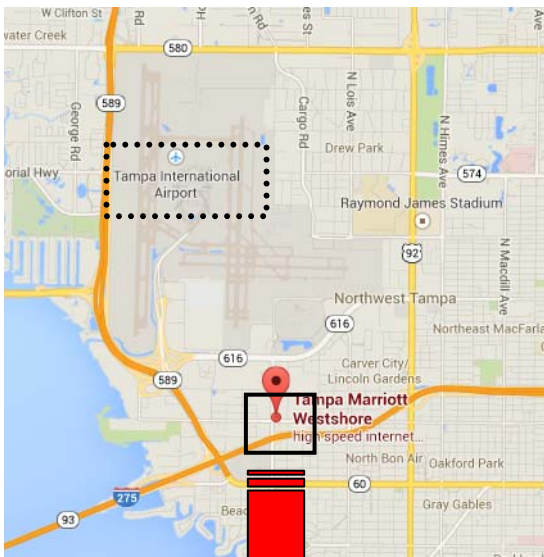
[FREE Wi-Fi]

Available in the meeting rooms and your rooms in Tampa Marriott Westshore

[Transportation and PARKING SERVICE BY TAMPA MARRIOTT WESTSHORE]

- The hotel provides a complimentary shuttle to and from the Tampa International Airport. To request shuttle transportation from the airport to the hotel, participants should retrieve their bags from Baggage Claim and then **call the hotel (813) 287-2555 and ask that the shuttle come meet them.**
- The hotel will provide complimentary self-parking for those arriving by car.
- For the duration of the symposium, the hotel will provide complimentary transportation within a 2 mile radius of the hotel.

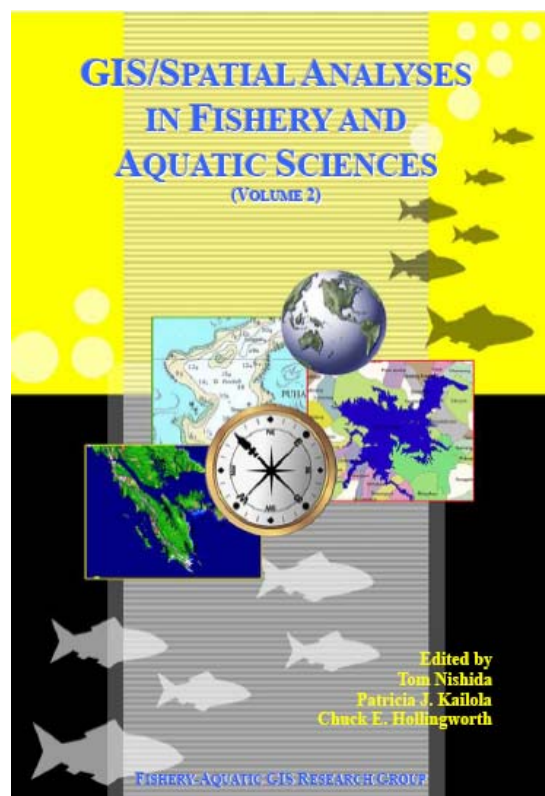
MAP OF TAMPA, AIRPORT AND VENUE (TAMPA MARRIOTT WESTSHORE)



PUBLICATION OF PROCEEDINGS (FORMAL PAPER)

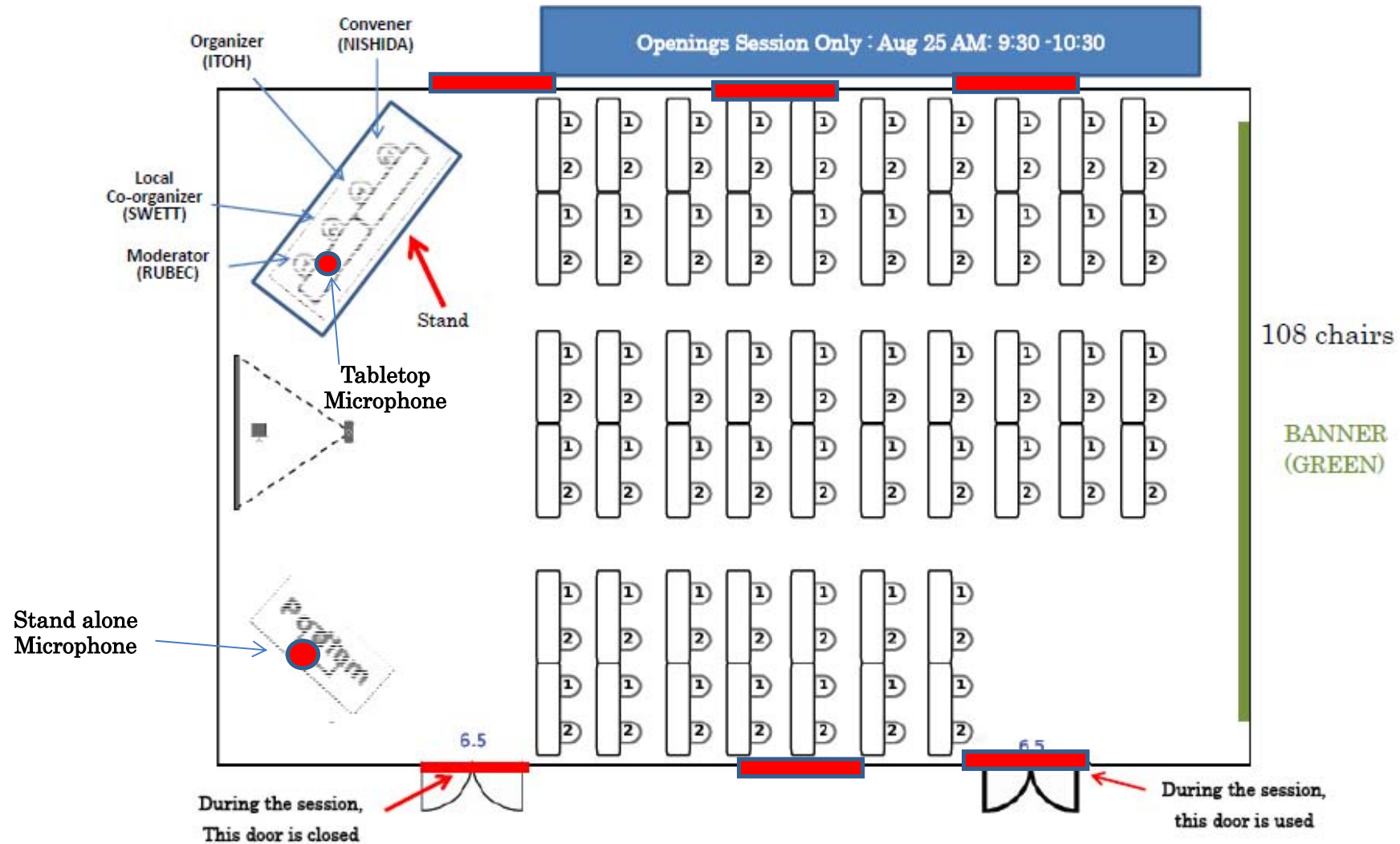
Those who make a presentation (oral, poster or PC demonstration) and who wish to submit a formal paper for the Symposium Proceedings, to be published by the International Fishery GIS Society as *“GIS/SPATIAL ANALYSES IN FISHERY AND AQUATIC SCIENCES (VOLUME 6)”*, should send a full paper to the Secretariat of the International Fishery GIS Society at fish-gis@world.odn.ne.jp by September 30, 2014.

Papers will be peer reviewed by two referees. If the paper is then accepted, it will be checked by professional editors before formal publication. The Proceedings will be published in 2015. *“Guidelines” for the formal papers are available at http://www.esl.co.jp/Sympo/6th/Guidelines_2013_final.pdf*. If you are interested in the Proceedings of the past Symposia and other publication, please refer to the web site at <http://www.esl.co.jp/Sympo/publication.pdf>

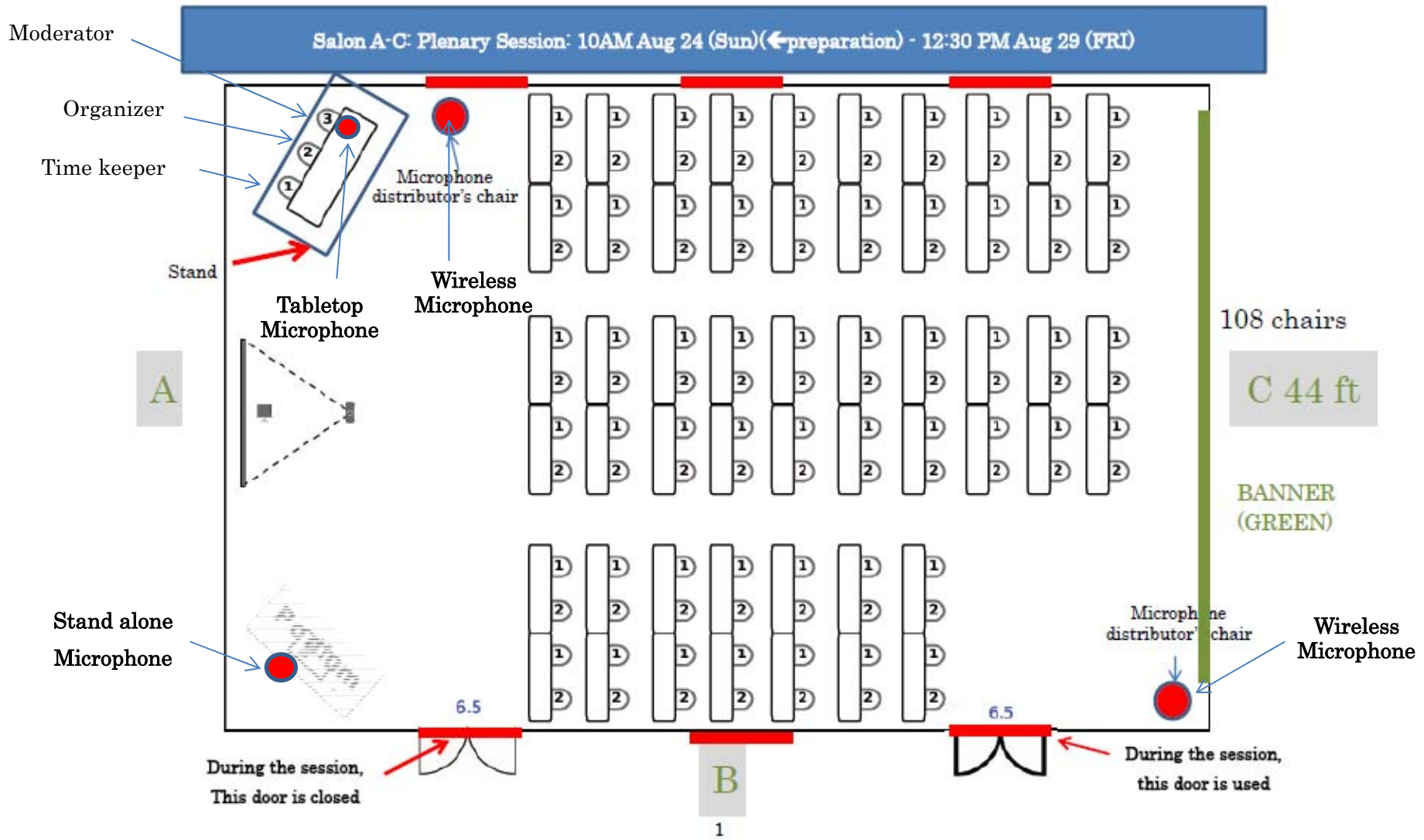


**SYMPOSIUM PROCEEDINGS
GIS/SPATIAL ANALYSES IN FISHERY AND AQUATIC SCIENCES (VOL. 2)
(SECOND SYMPOSIUM)
(UNIVERSITY OF SUSSEX, UK, 2002)**

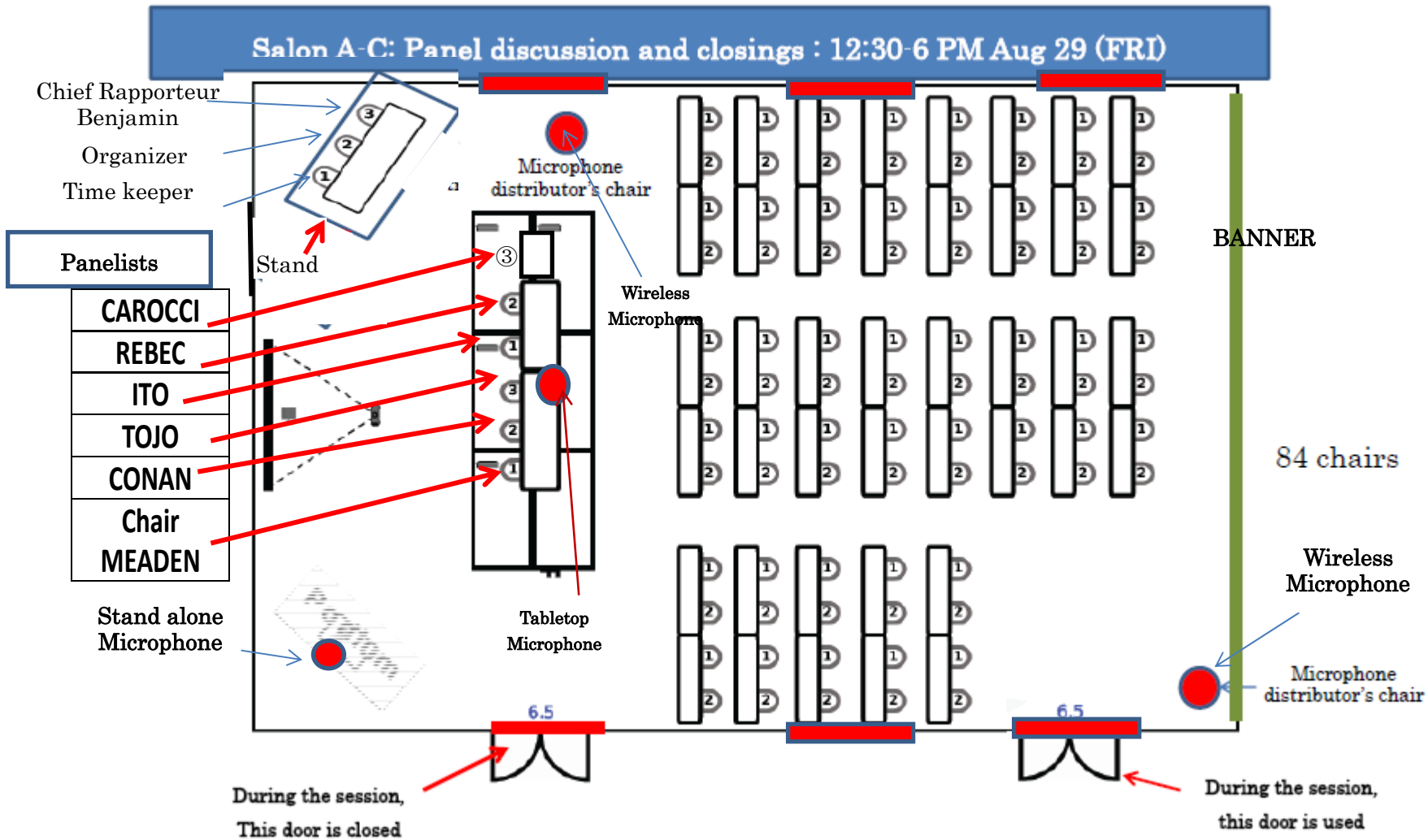
OPENINGS



Plenary

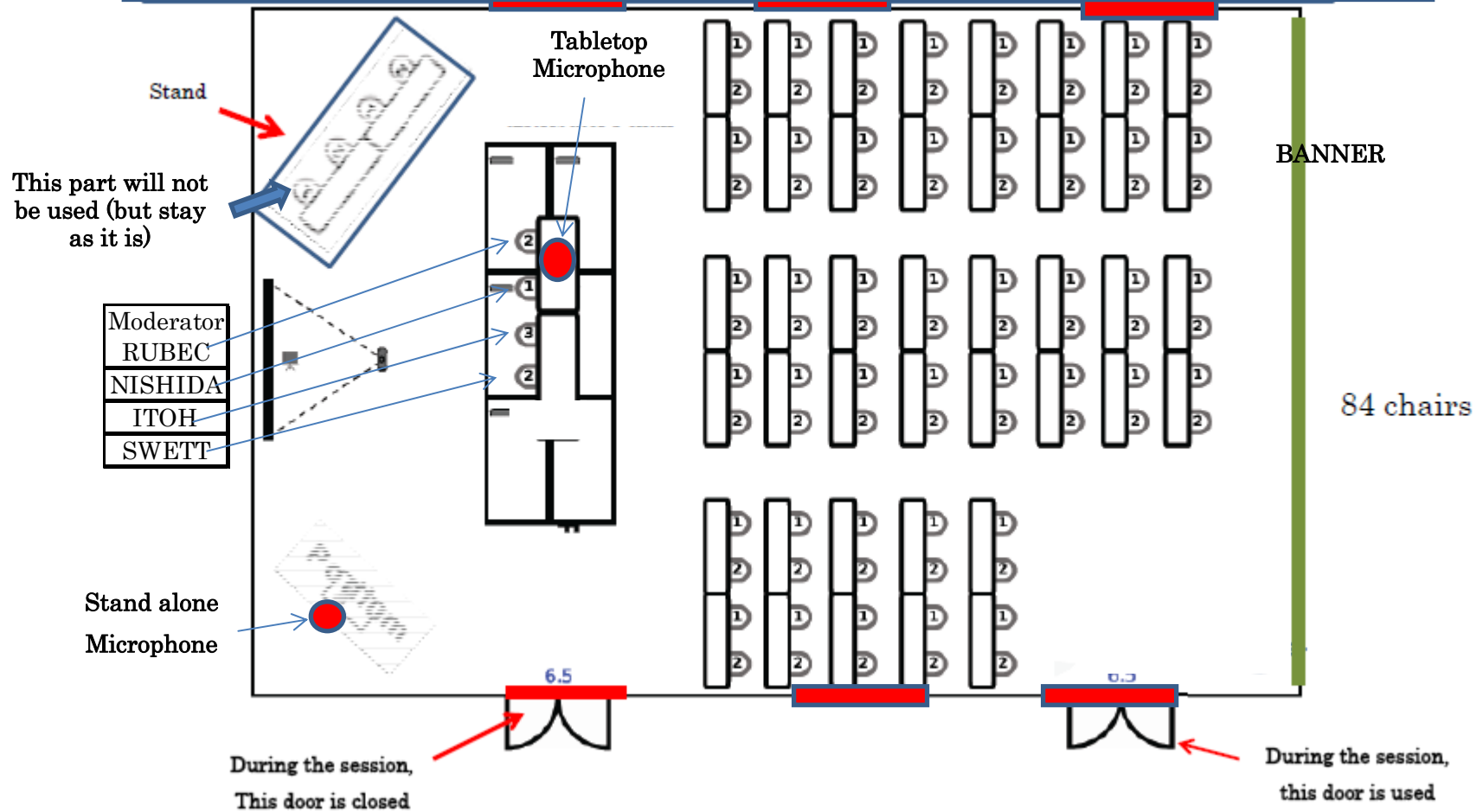


Panel discussion

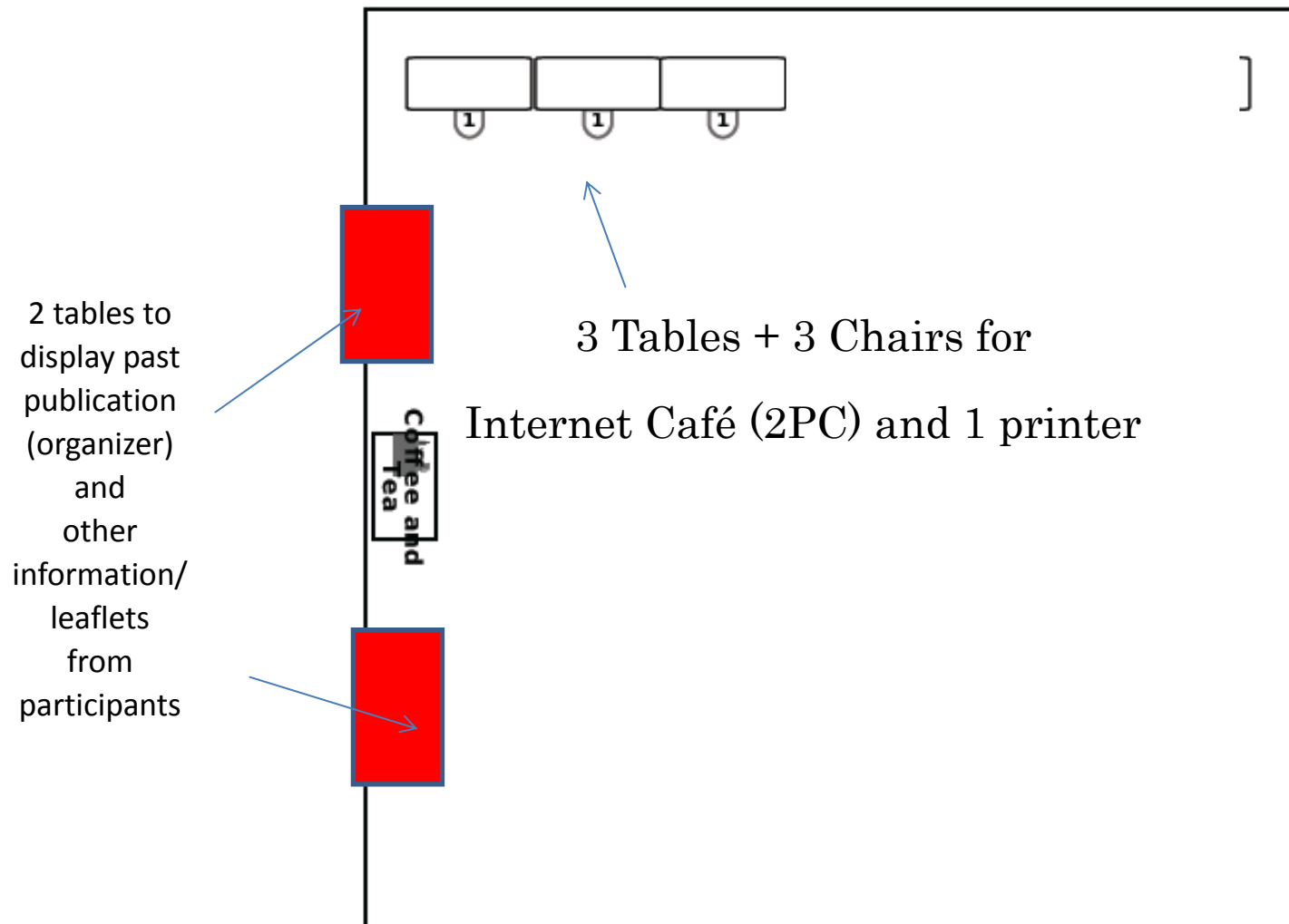


Closings

Closings: 4:00-4:30 PM Aug 29(FRI)



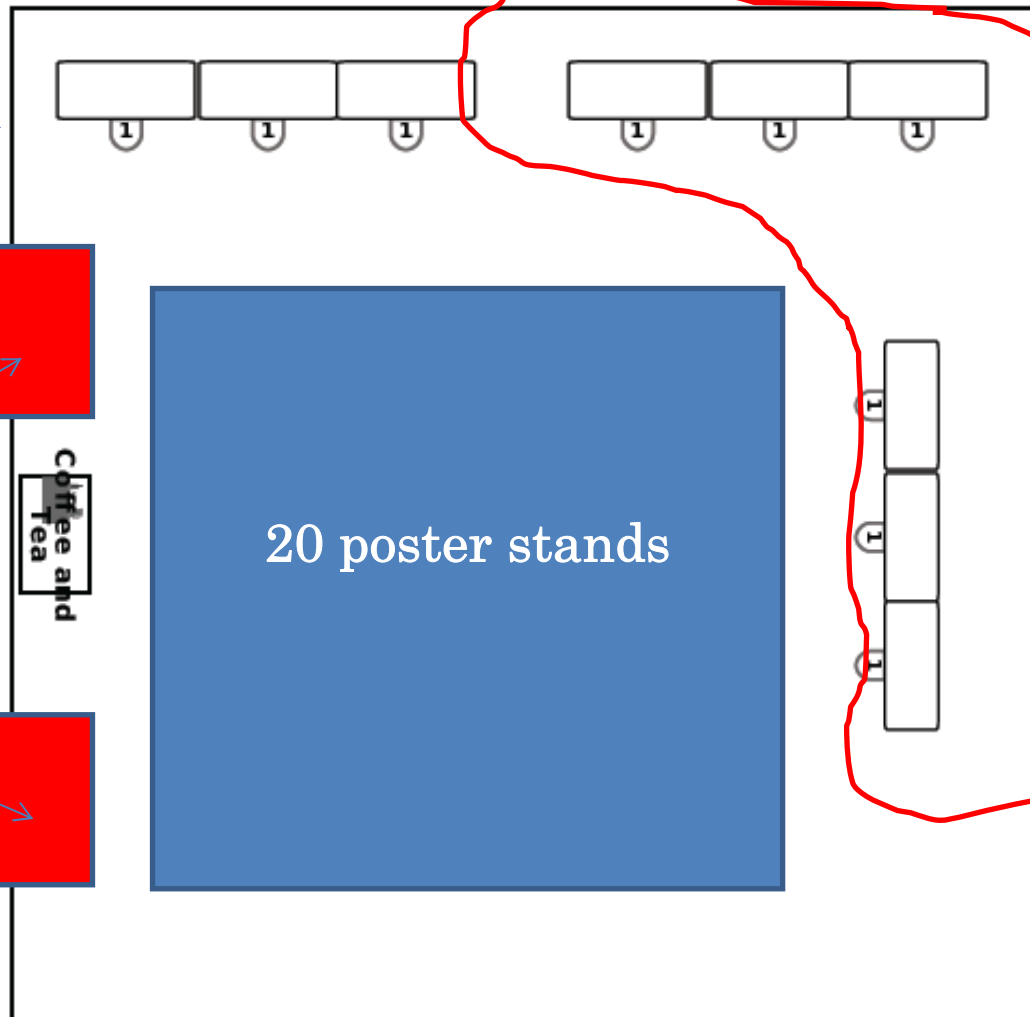
Salon D-E: Aug 25 (Mon) - 12:30 PM Aug 26 (Tue)
and Aug 28 8 AM (Thu) – 6PM Aug 29(Fri)



Salon D-E: Poster and PC demo session
12:30 PM Aug 26 (Tue) – 5PM Aug 27 (Wed)

Internet Café
(2PC+1 printer)

2 tables to display past
publication
(organizer)
and
other
information/
leaflets
from
participants



Space for 6
PC demos
(Participants will
bring PC)

Reception desk and Secretarte room : Board room
Aug 25(MON) 8AM- Aug 29 (Fri) 6PM

