

D3.4 PROCEEDINGS

OF COMMUNITIES WORKSHOP

Workshop on Landslide

	Date	Event	Thema	Area	Topic	Attendees	Page
1	Jan 26-07	Workshop	Landslides	Divino Niño	Landslides at El Divino Niño	60 persons from Study Team, Alcaldia de Soacha and Community	1
2	Feb 15th-07	Workshop	Landslides	Altos de Cazucá	Introduce a rainfall monitoring for landslide based on the community in Altos de Cazucá	7 persons	1
3	Sep 17th-07	Workshop	Landslides	Soacha	Results from rain gauge monitoring by schools in El Divino Niño and Altos de la Estancia	36 persons from Study Team, Apccytel, Institutional representatives and community people in charge of rain gauge's data	2
4	Sep 19th-07	Workshop	Landslides	Soacha	Results from rain gauge monitoring by schools in El Divino Niño and Altos de la Estancia	36 persons from Study Team, Alcaldía de Soacha, Institutional representatives and schools representatives	2

Workshop on Flood

	Date	Event	Thema	Area	Topic	Attendees	Page
1	May 18th-07	Workshop	Flood	Soacha River	Soacha River Monitoring and Early Warning System	68 persons from Institutions, CAR and community leaders and members	3
2	June 2nd-07	Workshop	Flood	Soacha River	Community Plan. Setting the preliminary responsible for the water level monitoring	19 community members from pilot project and institutional representatives	5
3	June 13rd-07	Workshop	Flood	Soacha River	Community Prevention Plan Information transfer	35 community members from pilot project and institutional representatives2 Tibanica	8
4	June 23-07	Workshop	Flood	Soacha River	Community Prevention Evacuation Meeting Points	52 community members from pilot project and institutional representatives, leaders from downstream affected communities by May 2006 flood.	12
5	June 27th-07	Workshop	Flood	Soacha River	Community Prevention Plan Evacuation time estimation and responsible. Shelter conditions. Preparing community meetings for July	40 persons from Alcaldía, Bomberos, Ladrillera, Communities in the study area and neighboring areas affected by flood (El Silo & Tabacal)	14
6	Sep 14th-07	Workshop	Flood	Firemen station	Bomberos Training	8 Firefighters	18
7	Sep 19th-07	Workshop	Flood	Firemen station	Bomberos Training	8 Firefighters	19
8	Nov 06th-07	Workshop	Flood	Alcaldia of Soacha	Early Warning Simulation	17 Institution representatives and Community leaders	21

Seminar

	Date	Event	Thema	Area	Topic	Attendees	Page
1	July 27th-07	Seminar	Flood/Landslide	Seminar Tequendama Hotel	Monitoring and Early warning system for landslides and floods in Bogota and Soacha Municipality	89 persons in total JICA Study Team- Alcaldia Soacha-CAR-Fire fighters-Civil Defense- Community-National University-Distrital University-INGEOMINAS-Cundinamarca Government-JICA Colombia-IDEAM-Ministry of Housing and Development-EAAB- Contraloria Municipal	33
2	Nov 13th-07	Seminar	Flood/Landslide	Seminar Tequendama Hotel	"Seminar about the Monitoring and Early Warning System for Landslides and Floods in Bogota and Soacha Municipality"	94 persons is total -JICA Study Team- Alcaldia Soacha-Red Cross-CREPAD-Soacha Communities-Bogota Communities-Red Cross -CLOPAD'S Cundinamarca-Civil Defense-Firefighters-Hospital San Cristobal-DPAE	36
3	Feb 1st-08	Seminar	Flood/Landslide	Seminar Tequendama Hotel	"Seminar about the Monitoring and Early Warning System for Landslides and Floods in Bogota and Soacha Municipality"	100 persons is total -JICA Study Team- Alcaldia Soacha-Red Cross-CREPAD-Soacha Communities-Bogota Communities-Red Cross -CLOPAD'S Cundinamarca-Civil Defense-Firefighters-Hospital San Cristobal-DPAE	42

1. Landslides

Workshop Title:	Landslides at El Divino Niño.	
Date /Place:	January 26 th El Divino Niño “Escuela Panamericana”	
Attendants:	Study Team-Alcaldia de Soacha-Community	Total of attendants: 60
<p>Discussion:</p> <p>Alcaldía de Soacha explained about the problem at El Divino Niño based on the history of the neighbors. Soacha Municipality has been fighting to solve the problem of disasters by landslide at Soacha Municipality as well as at El Divino Niño. The main purpose of the workshop is to explain the condition at El Divino Niño, to notice how dangerous is the situation in which communities of El Divino Niño are involved and listen to the ideas of the community.</p> <p>JICA Study Team presented the technical explanation about the landslide and the dangers of the landslide at El Divino Niño. First, he explained the general awareness and the explicit information about the landslides also, the types of landslides, examples of prevention measurements and early warning system in Japan. As second place, he explained that El Divino Niño is mostly in danger of landslide. The community asked some questions to Soacha Municipality and to JICA Study Team about the condition of project and schedule.</p>		

Workshop Title:	Landslides at Altos de Cazucá	
Date /Place:	February 15 th –Altos de Cazucá School	
Attendants:	JICA Study Team-Alcaldia de Soacha-Community	Total of attendants: 7
<p>Discussion:</p> <p>The aim of this workshop was to introduce a rainfall monitoring for landslide, in order to prevent/mitigate landslide disaster based on the community. Landslide Expertise in JICA Study Team– Ryo Miyazaki explained to the people some general aspects about landslide, the relationship between rainfall and landslide events occurrence and some real data from disaster occurred in May 2006.</p> <p>We invited Community Leaders and School Directors from La Capilla, El Arroyo, Luis Carlos Galán Sector II and El Paraíso de Corinto.</p> <p>Some comments and questions were:</p> <ol style="list-style-type: none"> 1. Q: JICA project is the same project or similar to INGEOMINAS Project? A: No, JICA Project and INGEOMINAS are different. Of course, both are working in shared themes, but the scopes are different. 2. Q: JICA project will to help in order to improve aqueduct and sewage? A: No, this project does not consider or work in this direction. The most important for JICA Study Team is to keep the life, to safe life through the community based monitoring and disaster prevention/mitigation activities. 3. The community has interest to cooperate with the monitoring and confirmed information about community centers and/or schools as follows; <ul style="list-style-type: none"> ➤ La Capilla has a school (Institución Educativa Cazucá sede La Capilla) and 		

- it is recommendable for the monitoring place,
- Luis Carlos Galán Sector II has school (Institución Educativa Luis Carlos Galán) and community center with security guards, and the leader recommended to select the school as a monitoring place,
 - El Arroyo has school (Institución Educativa Antonio Nariño sede El Arroyo) and it is recommendable for the monitoring place, and
 - The leader of El Paraíso de Corinto was not able to join this meeting, however, they has community center and are cooperative to the monitoring according to Ms. Sandra Milena Vasquez of Soacha municipality.

Workshop Title:	Rain Gauge Monitoring in Soacha workshop	
Date /Place:	Sept,17 th 2007 “Soacha	
Attendants:	JICA Study Team-APCYTEL – Firefighters-El Divino Niño and Mirador de Corinto	Total of attendants: 36
<p>Discussion: The aim of this workshop was to inform preliminary results from rain gauge monitoring by schools in El Divino Niño and Altos de la Estancia. Attended to this workshop, JICA Study Team (Yokoo, Liliana Medina), Apcytel (Eng. Emigdio Collantes), Soacha’s Firefighter Department (one volunteer) and from schools, only persons in charge to read and update rain gauge’s data from El Divino Niño School and Mirador de Corinto School. JST explained preliminary rainfall behavior and distribution in study area based on data collected from July-August, 2007, explained again correct way to read measures and complete format sheets and distributed emptier format sheets to the schools. Additionally, was required to persons in charge, report to Firefighters Department measurements if water’s level reach 200mm in 8hours, as a preliminary value for an early warning.</p>		

Workshop Title:	Rain Gauge Monitoring in Soacha workshop	
Date /Place:	Sept,19 th 2007 “Soacha	
Attendants:	JICA Study Team-Alcaldia de Soacha- CAR-Red Cross-Fire fighters-Civil Defense-Hospital Mario Gaitan.	Total of attendants: 36

Discussion:

The aim of this workshop, as same previous, was to inform preliminary results from rain gauge monitoring by schools in El Divino Niño and Altos de la Estancia. Attended to this workshop, JICA Study Team (Yokoo-San, Liliana Medina and Paulina Chaverri), Apcytel (Eng. Emigdio Collantes), Soacha Municipality (Eng. Sandra Vásquez) and from schools, each person in charge to read and update rain gauge's data from El Arroyo, Luis Carlos Galán and La Capilla schools. JST explained preliminary rainfall behavior and distribution in study area based on data collected from July-August, 2007, explained again correct way to read measures and complete format sheets and distributed emptier format sheets to the schools. JST highlighted excellent cooperation and perfect update data from El Arroyo School. Additionally, was required to persons in charge, report to Firefighters Department measurements if water's level reach 200mm in 8hours, as a preliminary value for an early warning.

ATTENDANCE LIST

Workshop Rain Monitoring for Landslides – September 19th, 2007

No.	Complete name	Community or Institution
1	Jose peñalosa	La Capilla School
2	Jeider Rojas Garzón	Antonio Nariño School
3	Jose Florez	Antonio Nariño School
4	Sandra Vásquez	ALCALDIA DE SOACHA
5	Henry Raul Castro	Cazuca
6	Briceida Lara	Luis Carlos Galán
7	Alvaro Sabogal	Luis Carlos Galán
8	Jenny Astrid Espitia	Las Villas school
9	Blanca Elvira Lugo	Las Villas School
10	Ligia Rodriguez Moreno	Las Villas School
11	Diana Bolivar	Las Villas School
12	José Salgado	Gimnasio Moderno Colombia school

2. Flood

Workshop Title:	Workshop for Soacha Municipality Floods	
Date /Place:	May 18 th 2007 “Culture House of Soacha”	
Attendants:	JICA Study Team- CAR-Alcaldia Soacha- Police-Community	Total of attendants: 68
<p>Discussion:</p> <p>The workshop started at 10:00am and was opened by Maria Claudia Gonzales CAR Director. The engineer of the CAR Hernan Bravo talked about the purposes of his lecture, and explained to the community some aspects of landslides and floods. Additionally, he pointed out the importance of having the CLOPAD in operation.</p> <p>After, CAR officer presentation Inoue-san talked about the Community Risk Prevention and the equipments to be installed during the JICA Study period inside the Pilot Project Area.</p> <p>Comments of the Audience:</p>		

1) Professional Agent member of the policemen Mr Eulises Palomares Cruz:

“It’s better to disseminate this kind of lectures and workshops by radio, newspaper and the local television program of Soacha in order to disclose it all around the community”.

2) President of JAC barrio Prado Las Vegas:

“This question is to CAR directly, why you don’t take care of the low part sector that covers the 5 barrios: (Prado las vegas, Tabacal, Danubio, Rosal y el Carmen) the river in this sector tends to disappear and are needed two bridges the “Puente Mico” that allows the access to Prado las Vegas, and the bridge in the Danubio.

For what is useful a program upstream the river for prevention, if the water does not fit in the low part because it arrives to the bridge that communicates the barrios Tabacal Rosal and Danubio and the water falls leaves and the bridge is almost destroyed? The Community of Prado Las Vegas made a bridge but the CAR doesn’t cooperate. So please, dredge this part of the river.”

3) A person from Altos de Cazuca (didn’t give name)

“Please explain me why you didn’t mention anything about Altos de Cazuca”

4) A person from Altos de Cazuca named Dario Grisales:

“I have assisted to several workshops held by JICA and CAR, and I listened that you were going to do something with Terreros Dam, could you please confirm me this. Since, in El Barreno there are some apartments in the low part and are in danger, so why don’t the CAR or the planning department constructs a park above Terreros Dam because in Soacha there are not so much parks for children”

5) A person from Altos de Cazuca (didn’t give name)

“ There are some gullies in the higher part done by community in where there are cows until reaching the Autopista Sur , and the lower part suffers from floods, and where are you going to locate the water the comes from Firefighters side?”

6) Firefighter Raul

“Please notice the importance and utility of the equipments that are going to be provide by JICA STUDY TEAM, we are very glad and thankful because these equipments can help us to anticipate to the emergency”

7) JAC leader of Fusunga

“I am concern because, we haven’t had the support from the competent authority, I remember in the previous workshops was I mentioned the lot of debris flow and garbage that the trucks leave when they are going for sand. And up to this moment we haven’t received any solution, and this can cause landslides and floods, despite, we have talked to policemen nothing had happened, so if they don’t do a cleaning from San Jorge to the lower part we can have the same bad situation we had in May ,2006”

ATTENDANCE LIST

N	Complete Name	Community or Institution	N	Complete Name	Community or Institution
1	Hernán Bravo	CAR	35	Flor María Ramírez	Vereda Fusungá
2	Daniel Hidalgo	CAR	36	Guillermina Ortiz	JAC. Villa sandra
3	Nohora E. Molina	CAR	37	Wilson Muro Méndez	CAR Soacha
4	Milena Benavides	Alcaldía de Soacha	38	Omar Cortés Sánchez	Asojuntas C-4 Buenos Aires
5	Edgar Alveiro Gama	Sibate	39	Sandra M Vásquez M	Sec. Educ.- Alcaldia Soacha

6	John Alexander Reyes	Sibate	40	Edwin Andrés Mancilla	Dir.Gest. Ambt.-Alc.Soacha
7	Pb. Fabio Andrade	Sibate	41	M. Gociban	Cardal
8	Pedro Alveiro Barreto	Sibate	42	Angela Piedad Alfonso	CLOPAD
9	José Manuel Avila	R. Legal ACBC Soacha	43	Eulices Palomares Cruz	Policia Nacional Soacha
10	Eloy Benavides	Comuna 6	44	Luis Andrés Sánchez S.	Policia Nacional Soacha
11	Benjamín Ospina	Comuna 6 - Presidente	45	Alex Mauricio Sierra Prada	Policia Nacional Soacha
12	Carlos Alberto Varela	Edil Comuna 6	46	Jorge Luis Moreno G.	Policia Nacional Soacha
13	F.E. Cotes	Barrio Prado Vegas	47	Holmes V Ramirez Jiménez	Policia Nacional Soacha
14	Mauricio García	Alcaldía - Corregidor	48	Jonathan Gordillo Porras	Policia Nacional Soacha
15	María Eugenia Casasbuenas	Alcaldía - Infraestructura	49	Jonathan Gómez Pedraza	Policia Nacional Soacha
16	Martha Lucia Gutierrez	Alcaldía Sibaté – Planeación	50	Edilbero Henao	Prado de las Vegas
17	Marcelino Mendoza	Presidente - JAC	51	Viviana Marcela	Hospital Cardio-vascular
18	Gloria A. Montemiranda	Villa Sucre	52	Angelina Castro	OPS/OMS
19	Jhon William Ríos	CAR	53	Fabiola Molano	Villa Esperanza
20	Enrique Rodriguez	La Esperanza Cazucá	54	Julio C	Mirador III
21	Mercedes Sánchez	Luis Carlos	55	Adriana Ayala	Mirador III
22	Miyer Jorge Calvo	Comuna 3	56	Oscar Rico	Bomberos Oficiales
23	Raúl		57	Andrés Rodríguez	CAR (Ambiental de Suelos)
24	Jorge Amaya Bohórquez	El Divino Niño Sector 1	58	Jeison E. Avila	Policia Ambiental
25	Iván de Jesús Pinto	Villa Sandra	59	Eduarne	Cazuca
26	Raúl Rivera	Bomberos Oficiales	60	Clemente Choja	Santo Domingo
27	Juan César	Cien Familias	61	Jaquelin Salcedo	
28	Andrea Flórez	Ofc. de Prensa Alcaldía	62	Jorge Pino	San Marcos
29	Vianey Vaquero	Paraiso Comuna 4	63	Nelly Narvaez	Cazuca 1er Sector
30	José	Unión	64	Luis Eduardo Anzola	Cazuca 1er Sector
31	Rafael Palacios Cárdenas	PT Profesional Ponal	65	Darío Grisales R.	Presidente JAC La Isla
32	Jorge Esteban López	Ponal	66	Davian Mayorga	Casa Hogar San Miguel
33	Jerson Rodríguez	PT Ponal	67	Iván Calderón	Alcaldía de Soacha
34	Giovanna Wilches S.	Secretaria Desarrollo Social	68	Endio Ríos	Presidente JAC

Workshop Title:	Community Plan of Disasters Prevention	
Date /Place:	June 2nd, 2007- “Sisters’ house Adelaida”	
Attendants:	JICA Study Team-Alcaldia de Soacha- IDEAM-Fire fighters-Community	Total of attendants: 19
Discussion:	<p>It started with the welcome greeting of Mr. Ivan Calderón, CLOPAD Coordinator, who explained the importance of disseminating the information given in each workshop, through the attendants, representatives, and neighbors.</p> <p>The representative of Study Team, Mrs. Paulina Chaverri explained how this workshop is part of the schedule of the Study Team, since it is a continuation of the Community Workshop held on February 18th of this year. The event corresponds to the elaboration phase of the Community Plan of Disasters Prevention, and the elaboration of the Community Map for the emergencies prevention. The objective of this workshop is to obtain information from the communities about the feasibility mechanisms for information transference for the monitoring. This workshop belongs to other three workshops that are planned for the month of June. Mr. Inoue explained the technical details of the monitoring plan, the installation points and the monitoring periodicity. He asked to the community for their opinion about the proposal pertinence.</p> <p>Use of non-recording (staff) type water level gauge: Mr. Dagoberto, from el <i>Cardal</i> asked about the operation of the “Water level gauge” that will be installed. The IDEAM officer</p>	

explained that this device has 10cm intervals. IDEAM could commit to train the person about how to read it. It is very easy and its importance is that readings can be done everyday at an exact hour. Sometimes, it occurred that people had stolen this instrument to sell it; even it is manufactured with a non-value material. And the service that it gives is much more comparing with its value. Also, advised that all community should take care of it, because it is a common benefit. And teachers at barrios schools should be invited to these workshops to be informed about the evacuation plan and like this aware all the community. There can be done activities of environmental education in disasters to teenagers and kids taking advantage of the water level gauge installation at Llano Grande ,in order to teach them its value and also aware them about its use and care.

In one of the images shown, Mrs. Flor María from Fusunga pointed out at the image the water level reached during the winter emergency of the past May 2006, explaining to the attendants the evidence of the water level increase and the importance of the monitoring upstream.

Monitoring of the river bed from March to May 2007: They said it was a successful experience to measure the five bridges according to the specifications given by JICA Study Team in all the cases they wrote down the measurements in each bridge folder, doing the pertinent work due to most of the time period was dry season (March to May) they noticed this didn't affect too much the river condition. Mr. Carlos Varela informed that sedimentation level didn't increase and there were not variations. The measurements are not difficult, they are very important for the community calm.

He said, that were 5 specific places for doing the measurements, each one with its folder. This is done each 15 days taking a total time of 45 minutes since; they go along the river until completing the 5 bridges from La Florida until El Cardal. Regarding to the frequency, only once it was done more frequently 8 days after starting and were taking some memo notes in the folder, because it was raining heavily. This according to the instruction received by JICA Study Team, more frequent measurements could be added as they consider necessary and this more detail information is valuable and really appreciated.

Mr. Carlos Varela asked if the measurements were going to continue after the dredging done recently (this just to know where to start)

Regarding to the Speakers System: Mr Varela asked about the reach of these equipments, because they know are working with a speaker of 90 and they can not work with high volume because it distortions. Mr. Ivan Calderón answered that tests will be done to determine, reach and sound fidelity.

Results of the Group Work June 2nd, 2007

Responsibilities in the Soacha River Monitoring & Information Transmission (Speaker)

Llano Grande –El Cardal

Since, El Cardal and Llano Grande are very near. The JAC leaders are going to work together; the information will be fast with one speaker and with one portable radio. And there are more than 500 persons in both barrios.

Portable radio: Will be located at El Cardal, on charge of Mr. Dagoberto Silva. Address: Cra 8 east and Calle 11. And he will communicate with the Firefighter station with one radio.

Speaker system: Will be for the communities, they suggested to be share by two barrios El Cardal and Llano Grande. Address: Calle 11 No 64 East, Cra 7(Maria del Carmen Muete).

Linnimetro: The three leaders at Llano Grande ; María del Carmen Muede, Ana Isabel Molano and Ana de Ospina will be on charge continuously.

Florida I Sector

Portable radio: The radio must be located at Llano Grande and El Cardal that were the most affected barrios, its better that this radio has a very good reach.

Speaker system: There is not any existing speaker system. And is convenient to locate the speaker system in the middle to communicate all the neighbors about any event or incident and it could be in the house of a neighbor that has a good height and is convenient to communicate with community.

There were identified two alternative points where these equipments could be located to inform the community:

Option 1 House of Mr. Edgar Ariza Cra 4ta East No 8-18 E Barrio La Florida. The site is proper for the speaker and the monitoring system it is just necessary to confirm the availability.

Option 2 At the community dinning room Cra 3 East N 7C-05 that is the house of Mr. Jairo Guzman (husband of one attendant).

Option 3 At the second community dinning room of La Florida at the Cra 4ta in the house of Marlene Martinez

Florida II Sector- Cohabitar- Rincón de la Florida,Cien Familias.

There are around 210 houses, approximately 1,000 persons in the three barrios. It was consider that in the place for radio should be the speaker too, because the person that has this should have both things to be able to spread communication.

The church could be the best place for the radio and the speaker if the priest collaborates.

Option 1 House church at Cien Familias. Priest Edward is the best point for the radio and the speaker

Option 2 House of the representative of JAL (Local Administrative Joint of the barrio) Mr Carlos Varela. Adress: Cra 1 a B, Calle 9-19 at the barrio Florida II sector. It will be done a team work, among the closest ones to the person that had acquired the biggest responsibility, it will be done in scale; first the JAL representative then the JAC president and then Vice-president or community leaders of close barrios.

It was considered that proposed early warning system is proper to the response capacity that community has. There is now an existing system that distortions and it doesn't have a range for middle distance. And the three barrios have portable speaker system, but in the same condition with a limited range.

**ATTENDANCE LIST
June 2. 2007 Workshop**

N	Complete Name	Community or Institution	N	Complete Name	Community or Institution
1	Marlén Martínez	Florida I Sector	11	Eloín Benavides	Florida II
2	Marluz Molina	Florida I Sector	12	Iván D. Calderón	Alcaldía de Soacha

3	Diana Carolina Ramos	Florida I Sector	13	Carlos Alberto Varela	Edil Comuna 6
4	Carmen Triviño Segura	Florida I Sector	14	Ángela Alfonso	Alcaldía de Soacha
5	Ana de Ospina	Llano Grande	15	Raúl Riobueno	Bomberos Oficiales
6	Dagoberto Silva	El Cardal	16	Flor Maria Ramírez	JAC Fusungá
7	Sandra Vásquez	Alcaldía de Soacha	17	Ana Isabel Molano	Llano Grande
8	Edgar Augusto Blanco	IDEAM	18	Maria del Carmen Muete	Llano Grande
9	Gilberto Rodríguez	Rincón de la Florida	19	Ramiro Tibacuy	Rincón de la Florida
10	Luz Esperanza Sanín	Cien Familias			

Workshop Title:	“Constructing the Community plan for the Disaster Prevention by Flood for Soacha River”	
Date /Place:	June 13th of 2007- Sisters’ house Adelaida”	
Attendants:	JICA Study Team-Red Cross-Firefighters- Civil Defense-Casa Ultrasonido-CAR-Community	Total of attendants: 35

Discussion:
The objective of the workshop is to advance in the elaboration of the Community Plan for the Emergencies Prevention by floods in Soacha River. Particularly, to review the agreements of last workshop, to work in the communitarian map, including the evacuation routes, the families that should evacuate, the families that should go to the second floor and the meeting points. It will be looked the pertinence of carrying out community meetings in the month of July, organized by their leaders. It is also required to verify the responsibility assumed in the monitoring, and the assignation of substitutes. Finally, it will be shown a scale model flap gate, to solve the problem of backwaters.

Regarding to the speaker system: This will be installed in ten places with twenty sirens and a central operator but, in case of emergency the first thing that fails is the electricity, and in this case will the equipment work? So how to solve this condition could be with a battery system or with a small electricity plant.

Regarding to the limnimetro(water level gauge) reading and the communication by radio: The best information received is from upstream, the persons living above are the best informed, they are the most important for giving the information. The ones who live below have another view about the river overflow. And through radio they will communicate with firefighters and according to the technical level the warning or evacuation decision will be take. The emergency almost always comes from the barrios above, Llano Grande and El Cardal and from there communication will be spread.

Localization of a centric place for the sound console for the speaker system: There were created several criteria. The equipment will be in a centric place where the sound console will be installing. At the river bank maybe is not so convenient because persons living there could be affected. So, if this device is farther the river, it will be safer to give the information, or at least in a house not affected by flood, because there are houses at the river bank that are not affected and other at the back part that are affected. So, it is better to look for the best for all the communities and find a consensus about the best point to place the central base. It is advisable to take the decision considering the steep slope and according to the experts’ advice. The intermediate point is around Pradera II sector or La Florida II for the dinning room. It will be pending to verify the localization of the house and according to the family availability, its better to ask who will be the possible candidates for handling the central equipment.

About the sewage backwaters: Mr. Inoue presents the scale model with the two examples of the water behavior of river, one simulating the current condition, and the other one with the flap gate, that when increasing the water level of river impedes the sewage back waters. It was asked to the community if they knew about this device and mostly answered negatively.

Mr Iván explained that the map of year 1948 showed how the zone was a wetland, and the river had space. And nobody did a proper land adequacy and it was constructed above the land without knowing how it was. And that's why sewage system has backwaters. So it would be better to take away the barrio and construct it again refilling the land to have it above river level. Because the barrio has a bowl shape and also when it starts to rain always people is going to have the same problem. These zones are just useful during winter season since rivers during winter overflow. In 1941 there was not a house constructed, so then water had space. The sewage system problem always is going to be present because is below the river level and always there are going to be backwaters. So for this reason one of the solutions is to put valves to the sewage system. And we are not still aware and we throw the garbage to the river and obstructing like this the sewage system.

RESULTS OF THE WORK BY GROUPS

La Florida II sector: The most affected part of the sector was the Cra 2 and the Cra 2A was the less affected. At the Cra 2 all the houses were evacuated, are few the houses with just first floor. So at the last emergency there looked aids for the flooded houses, and the families took their belongings to the second floor.

The persons living at the first floor took away their belongings to the second floor neighbor's houses. And just few houses, five do not have second floor, also, at the back part there is a small hill where people can go to Cien Familias Church.

Cohabitar: They don't know, but probably half block.

La Pradera I: Water doesn't overflow, but they are going to divide in strategic points to provide the information to community. Besides, the water falls by gravity and they have some pumping machines that are going to be installing next to the well where the water arrives. They are using the pumping machines to empty the wells, each 8 days. Mr Iván Calderón says that at the barrio Tabacal this is the sewage system, because they throw the sewage to the Soacha River that is almost a meter and a half distance. Mr. Edgar López said that at the barrio La Pradera there is an Emergency Plan but it doesn't include the sanitary aspect after the flood. When there was flood at La Pradera the community bought masks, sanitary implements and they washed the roads with soap and Clorox, because the smell was terrible.

La Pradera II: It was flooded at the back part not in the front. The evacuation route will be along the Cra 3 forward and trying to go up by the 3ra to the hill. There were calculated 100 persons to evacuate, there is not any shelter. At La Pradera II, the water overflow until the level of the sidewalk 10 cm, the water entered by the sewage system, so people evacuated to the second floor since, most of the houses have 2 or 3 floors.

Basically, the emergency is sanitary, due to the sewage backwaters. In reality, the 100 families will go to the second floors and they don't have to go far away, just going to the second floor, and solve the sanitary emergency taking the people away to a shelter in front. During the last emergency people just waited the level to decrease. All the people worked to uncover the sewage piping and took away all the garbage that was above the roads and after, they washed them and it lasted from 3 until 9 pm, the community took away the implements to clean.

Florida I: The water came above the paddock of Llano Grande and Florida II sector in front. So, Mr Benjamín Ospina explained that he had to turn on the speaker and he asked the people to go out from their houses. Additionally, he said the evacuation way should be along Cra 4 with Calle 9, Calle 8 and Calle 7. they should go out by Calle 8 to Calle 3. And the most serious affected road by the flood was Cra 4. so, The evacuation will start from the Calle 10 that floods continuing to the Calle 9, 8 and 7 since all of them flood. So people will go the high part to the Community Center of the Barrio Florida I.

Approximately it is necessary to evacuate between 180 and 200 people who would be arriving at the Community Center This room has capacity for 300 people. But, it doesn't have proper conditions to lodge; it needs the infrastructure, baths, and glasses. In summary, the safest route is the Cll 8 until Cra 3, there are not houses of second level, and there is just one of two floors. The meeting points must be located. Since, there are existing clear places uncultivated lands that were not affected- so people can evacuate to second and third floors- in case of flood and they can go to Cra 7 and Cra 8 -

Llano Grande: More or less 19 houses that are between Cra 6 and Cra 5 with streets 10th and 9th At the right and left side.

El Cardal: There were evacuated six houses at the right and left side of the river that were the most affected. Between the address Cra 8 A and Cra 8 with Calle 11

At the bridge El Cardal to the right side there is a ramp and makes that water goes down through the street entering by the barrio blocks.

Regarding to evacuation, people will go to the high parts. And the support will be received at the second and the third floor in the houses of the same sector of El Cardal and Llano Grande.

There are 27 houses of second floor that will be shelters for those persons. The persons from the houses at the right side will go to the Urbanization San Carlos. The people at the left side will go to the hill but there is not a shelter.

During the flood of May 11th they gave shelter and food to the neighbors at the second and third floor. The main way to go to San Carlos is the Cra 7 con Calle 13, at the basketball court. In the old Brick Factory Porvenir there is a high paddock where people will get wet but will be safe.

At El Cardal 12 houses will be evacuated, 6 from the right side and 6 at left side with approximately 62 persons. At San Carlos 19 families approximately and 62 persons

With the map the addresses will be fixed and at the Barrio El Cardal there are two bridges one is a footbridge and another one is a car bridge. At the sector of Cra 9 that is next to Ladrillera Santa Fé community asked for independent maps one for Llano Grande and the other for Cardal.

Fusungá: There will be supporting groups for the community downstream they are very cooperative persons and they have not been affected by any flood.

Monitoring at Zararagoza and Fusunga in order to advise to firefighters is a good help. But regarding to floods the river dredging had decreased the influence of the river. The water level has not increased because it has not been a strong winter but the forest fires at San Jorge are going to have its impact. So we had asked to Alcaldía about the cooperation with the garbage that obstructs the river at Panama rural area, as it happened last May that water came in a big amount and suddenly to the barrios. The specific point mentioned is the bridge between the Cra 8 and Calle 11.

Community meetings by barrio

This December JICA Study Team will finish its work and the community should continue with the project doing community meetings and maybe JICA Study Team can support these meetings.

It is important that all the leaders pay attention to the work it has been done to cooperate, to know what we are giving and until where. And also, informing to the community about what is going to be installing, and the equipment will have better protection.

Florida II: Cien Familias and Cohabitar it is necessary to make the community meetings and make an agreement with Mr. Carlos also the meeting date is pending.

La Pradera I: First, a meeting will be done at the Barrio and then, information will be disseminated among the people to know who will like to cooperate for the replacements. There will be a meeting on July 8th at 9:00am at the Community Center. There will be three separated meetings at La Florida I sector and La Pradera I and II sector.

Florida I: The meetings are necessary to inform the community and for organizing them. At a general Assembly the information could be given, with visual aids. Date: July 8th at 9:00am at the Community Center of Florida I

Llano Grande-El Cardal: They will have their own independent meeting on July 30th at 9am. There will be cooperation between both barrios at the same date but at different time.

El Cardal: It is necessary to inform the community about what they are doing in the workshops. The date of the meetings will be pending, but according to the working dates it could be approximately for July 30th at 1pm.

Community said that other barrios should be invited: El Silo, Danubio, Parque de las Flores, Ciudad Satélite, Nuevo Portalegre y Prado Las Vegas y El Tabacal. But, it was clarified that this one is a pilot project for the most affected sector by the flood of Soacha River. After, the information will be duplicated to other sectors at Municipal level as example of communication and work for this plan, as example for flood and landslide.

Materials for July meetings: Maps, photocopies, visual aids, stationary elements and workshops. And establish deputies and replacements for the monitoring.

ATTENDANCE LIST (June 13, 2007 Workshop)

N	Complete Name	Community or Institution	N	Complete Name	Community or Institution
1	Leidy Esney Gallo R	Cruz Roja Col. Soacha	19	Ana de Ospina	Llano Grande
2	Edgar López Aucique	La Pradera II	20	Carlos A Herrera	Casa ultrasonido
3	Diego Guarín	Defensa Civil Soacha	21	Henry Castellanos	Casa ultrasonido
4	Iván Riobueno	Cuerpo de Bomberos	22	Patricia Marín	Cruz Roja - Cundinamar.
5	Elizabeth Ortiz	Defensa Civil Soacha	23	Guillermo Tomas G.	Cruz Roja - Cundinamar.
6	Maria del Carmen Muete	Llano Grande	24	Flor Maria Ramirez	JAC Fusungá
7	Luis Alberto Garay	El Cardal	25	Dagoberto Silva	El Cardal
8	Mary Luz Sichaco	Cien Familias	26	Manuel Gamboa	El Cardal
9	Gina Vanesa Jiménez	Cien Familias	27	Gustavo Osuna	Florida II
10	Edelmira Carpeta	Defensa Civil	28	Gilberto Rodríguez	Rincón de la Florida
11	Lorena Cortes Jiménez	La Isla	29	Eulalia Gutiérrez B.	Cien Familias
12	Yeferson Barragán	La Isla	30	Guillermo Pérez	Alcaldía
13	Diana Carolina Ramos	La Florida	31	Ivan D. Calderon	Alcaldía
14	Marlén Martínez	La Florida	32	Benjamín Ospina	Florida II
15	Miryam Martínez	La Florida	33	Nancy Osuna Guevara	Florida II
16	Doris N. Montes B.	Cruz Roja Col. Soacha	34	Graciela Caro Osuna	Florida II

17	Jennifer Benavides	Defensa Civil Soacha	35	Obdulio Calderon	Defensa Civil
18	Manuel Herrera	Defensa Civil Soacha	36	Nohora Molina Suárez	CAR OPSOA

Workshop Title:	Constructing the Community Plan of Disasters Prevention By Flood Soacha River	
Date /Place:	June 23 rd of 2007	
Attendants:	JICA Study Team-Alcaldia de Soacha- Red Cross-Civil Defense-ICA- Ladrillera Santafé-Community	Total of attendants: 52
<p>Discussion:</p> <p>Work by groups of the different sectors:</p> <p>Vereda Fusunga:</p> <p>Regarding to Panama rural area, where it was flooded last year and most people was affected, and taking on account this, the families that should evacuate taking on account that in average are 5 members will be a total of forty persons.</p> <p>In the houses there are not second floors, therefore persons can not be evacuate to these floors</p> <p>The meeting point is the community center of Panama rural area, this room has two bathrooms, and capacity for 100 persons and regarding to the other conditions everything is perfect.</p> <p>On the other hand, the community meeting is going to be on July 1st at the community center at 9:00 am. Directly, the JAC will communicate to the persons of the surroundings rural areas, the topics to manage will be solids disposal and garbage disposal, so they will need videos, visual aids.</p> <p>Mrs. Flor said that they understood that monitoring is important, since it was understood the importance of informing the water level from the first points San Jorge, the second one is Fusunga, then the Prison of Zaragoza and then Ladrillera SantaFé people will be in contact 24 hours to submit the information daily to the firefighter station for taking the necessary measurements.</p> <p>Ciudad Satélite:</p> <p>The certified points will be at community centers of the barrios of Comuna 2, at the kinder garden, another one at the community center Eugenio Díaz Castro, El Tabacal, el Rosal, el Danubio, Prado de las Vegas, with most affectation and the Silo that is constructed above the River Soacha level were placed some pumping machines for avoiding flood.</p> <p>The problem comes from the rural areas when there is strong rainfall and goes down, the problem is that the bridge is obstructed with garbage and contamination that goes across the city. This problem had been said to CAR and they lent a digger for some sectors. From the bridge to downstream is a commercial sector and from the Cra 7 to upstream they had been victims of this flood. The necessity is to solve this problem. In the first place, they will talk with the JAC leader to solve this and communicate to the other presidents for talking about the problem and to have an agreement, to establish the points they are working with.</p> <p>The shelters will be the three sites mentioned before; the priorities will be drugs, medicines, stoves, cleaning implements and blankets.</p> <p>There is a flood a problem that has to be solving because the help has been asked to different entities for the plagues control because the waters bring animals, insects and illness so they</p>		

will need the support of the health secretary for solving this problem with a plagues control. So, this will be informed to Mr. President Juan Carlos Piraquive. Also, community asked to inform about the project to Commune 2 for the different barrios to know about the project. The idea is to communicate about the project; there will be need visual aids, maps, videos and information billboards.

Community congratulate about the work is being done in the municipality and the interests that are being carry out for doing this project, the goodness and kindness to make this work and the delicious food received.

Plagues fumigation ¿ how it will be done and what is needed?

Elvira from the health secretary explained that the procedure should be done with the health secretary and the environment office, taking on account that are residential urban complexes, the chemical will be in the air for 24 hours, so persons should go away for this length of time.

Ladrillera Santafé, Cardal and Llano Grande:

Salomón said that there is not another way different from the main exit because there is not any other evacuation way, another way could be the perimeter road, at the Cardal site there are 12 points at the right and the left side, one part to the community center and the other one to the Ladrillera Porvenir, at Llano Grande there are two ways one to San Carlos sector and the other one to downstream.

The Ladrillera Santafé has a refugee plant, and they have the necessary battery for two days, at the prison they will talk to the JAC leader president of San Carlos for borrowing the community center for keeping the persons, since the ladrillera is an unpopulated sector, at Llano Grande in San Carlos there is a the sport complex, and it is just necessary to adapt it.

Regarding to the refugee time it will be two days, at San Carlos the place will be adapted, also the sport complex and the time could be until two days and the part of Parques del Sol also, can keep population.

At the refugees are require medicines, trained staff to administrate these medicines, pots, blankets and food and refugees fumigation. The medical aspect is vital inside the refugees.

The community meeting will be on June 30th at 1:00pm in front of the affected bridge, in order to show the people where the project has been done, there are 140 families, and 95 of them are owners and the other ones pay rent. Also, it is necessary to have an evacuation plan, to make this drill in case there is another similar emergency as May 11th. For this meeting the topic will be: Early warning project and all related with the monitoring and what to do in case of emergency. They asked for cooperation for the meeting of June 30th at 1:00pm to 9:00am at Llano Grande. So Mrs. Carmen Muete did the invitation for the workshop of June 30th to all the workshop participants.

Sector of La Florida II:

All the persons will be invite to the calle 7, at the high part of this land, located at calle 2 with cra 7, where the people is , at the third point a refugee will be located to keep 60 families that approximately represent between 300 and 400 persons, the sport complex of the barrio Cien Familias and as a second option is the church, that just needs some adaptations for the facilities and public services, this site is very close to the river but the level is high so it won't be affected and the persons will be out of risk.

The CLOPAD should be on charge of doing such adaptations to the refuges, for keeping persons for 15 and 20 days, there will be needed cleaning elements, diapers, food, batteries and good medical assistance.

The day for the community meeting will be July 1st at the church house at 1:00 pm, the topic to be discuss will be this project, the persons who are inviting are the JAC of the barrios

Florida II sector, Cien Familias, Parroquia El Divino Niño Jesús y JICA, there will be required fliers, visual aids and snacks.

All this help had been received with pleasure, but the problems are another ones and the suggestion for this will be a system that impedes the sewage backwater by the piping.

ATTENDANCE LIST (June 23, 2007 Workshop)

N	Complete Name	Community or Institution	N	Complete Name	Community or Institution
1	Luz Fany Torres	Parque de las Flores	27	Blanca Sofia Barbosa	La Pradera II
2	Sandra P Pinzon	Parque de las Flores	28	Benjamín Ospina	La Florida 1
3	Ángela Alfonso	Alcaldía Soacha	29	Edelmira González	Cien Familias
4	Víctor Julio Ramírez	Vereda Panamá	30	Alejandro Stean Pinzon	Cien Familias
5	Manuel Gamboa	Cardal	31	Wilson Ramírez	Cien Familias
6	Rosa Maria Varela	Vereda Panamá	32	Eva Cubillos	Cien Familias
7	Luz Marina Parraga	Llano Grande	33	Jorge Infante	Ladrillera Santa fe
8	Luiz Eduardo Moreno	El Tabacal	34	Inés Puentes	Cien Familias
9	Patricia Marín	Cruz Roja Cundinamarca	35	Salomón Gacha	Defensa civil Soacha
10	Julio Cesar Hilarión	Cien Familias	36	Diego Guanín	Defensa civil Soacha
11	Dillerman Rojas	Ladrillera Santa fe	37	Elizabeth Ortiz	Defensa civil Soacha
N	Complete Name	Community or Institution	N	Complete Name	Community or Institution
12	Jenniffer Benavides G.	Defensa Civil Soacha	38	Franklin Sano	C. Roja Soacha
13	Carlos Alberto Varela	Edil Comuna 6 Florida II	39	Maria Victoria Hernández	Junta de acción comunal
14	Elvira M. de Carreño	Cien Familias	40	Orlando Varela Vega	Puertoalegre
15	Dagoberto Silva	El Cardal	41	Pedro Julio Orozco	Ciudad satélite
16	Gustavo Osuna	Florida II	42	Elvira Herrera Franco	Secretaría de Salud
17	Teresa Rodríguez	Panamá	43	Mauricio García Segura	Corregidor 1
18	Miriam Flórez de Ardila	Cien Familias	44	Jesús Ma. Márquez G.	ICA San Jorge
19	Margarita Prieto	Cien Familias	45	Bernardo Soacha	Llano Grande
20	Gilberto Rodríguez	Rincón de la Florida	46	Nohora Molina Suárez	CAR
21	Ramiro Tibacuy	Rincón de la Florida	47	Miryam Martínez	Florida I
22	Eloín Benavides- PtJAC	La Florida II	48	Marlene Martínez	Florida I
23	Flor María Ramírez	Fusungá	49	M ^a . Carmen Triviño	Florida I
24	Adriana Ramírez	Vereda San Jorge	50	Mary Luz Molina	Florida I
25	Jose E Ramírez	Zaragoza Panamá	51	Margarita Caicedo	Llano Grande
26	Maria del Carmen Muete	Llano Grande	52	Ana V. Pinzón	Llano Grande Pta. JAC

Workshop Title:	“The role of the responsible of the monitoring system and their substitutes”	
Date /Place:	June 27 th 2007. “Sisters’ house Adelaida”	
Attendants:	JICA Study Team-Alcaldia Soacha-CAR-Fire fighters-Civil Defense-Health Secretary-Priest El Divino Niño Church-ICA- Community	Total of attendants: 40

Discussion:

The names of the responsible and substitutes that are going to do the monitoring of the limnimetros and rain gauges that will be installed in each one of the points, is checked according to the respective summary chart. Then, the missing names were added. The responsible for the river bed monitoring that had been until now 5 persons are: Marlén Martínez, Carlos Varela, Gilberto Rodríguez, Eloin Benavides. And In the case of Llano Grande, Mr Dagoberto Silva joined as substitute of the 3 partners that will do the reading of the water level gauge. The information in case of emergency will be received by one of the fire fighters that are on duty.

In the case of Llano Grande, Mr Dagoberto Silva joined as substitute of the 3 observers of the rain gauge in Llano Grande. The information in case of emergency will be received by one fire fighter on duty. The same in the prison, it should be the person on duty. It was asked for the names of the persons that will be on shift, for example the names of the 8 firefighters, and the security guards of Ladrillera and the prison. In the community the responsibility of receiving and giving back the information of water level was assigned.

Group work in different sectors

The groups work in the following questions: When can you complete the list of families to be evacuated?

And when you can complete the list of families to go up to second floor? Who are going to be the responsible for informing, for preparing during the evacuation, how long are going to last the evacuation preparative and the evacuation time? Finally, which procedures are been doing to adequate the refugees (Community Centers) in each sector?

To identify the meeting point and can count the minutes, the seconds of evacuation time, it should be considered the estimated in this workshop, with an exercise on site to check the time.

Florida II sector, Cohabitar, Rincón de la Florida y Cien Familias:

The lists of people that would evacuate to the second floor and evacuation of the quantity of families would be obtained in 11 days. And it would be carried out a Census July 5. In the church this information would rest. About the responsible ones during the evacuation is necessary to name two coordinators for block, keeping in mind that he or she doesn't have the precedent of flood of the previous facts, since the person affected by flooding will require solving his or her problem and then, the other ones. To give warning two minutes would be used; with the speakers system is faster to give the warning. To prepare the evacuation it would be keep in mind the network of leaders that would be acting in the prevention, it would take 40 minutes in the evacuation, if there is second floor it is better, but if there is not second floor they could fix the bed lifting it a little bit more from the normal level. The time of arrival to the encounter point is 45 minutes; they would arrive to the encounter point traveling 150 m to arrive at the 7 street that was the agreed meeting point. The preparation time will be 45 minutes enough time to carry out the preparations. To arrive to the refuge place that is in Cien Familias in two hours it is enough to arrive organized with people that will be accommodate. In the refugees will be needed according to the families estimated in 60 and 100 families, 300 people, 100 cleaning kits would be needed, 100 of kitchen, 100 mattresses, 100 blankets, a first-aid kit for first aids, 100 diapers, 10 lanterns, two radios with batteries, to locate a place with drinking water, perishable and not perishable allowances for 15 days.

The Florida I Sector: The evacuation toward the second floor would not be made since houses don't have second floor. Mr. Benjamin Ospina would be in charge of warning the community about the evacuation, a voluntary leader in case the first responsible is not there. The time for the serious evacuation is 15 minutes, with the help of the institutions and with this exercise the time of evacuation is minimized to more or less 300 people. The time in informing to the community is 5 minutes, the serious make ready time 5 minutes, and the time of arriving to the meeting point is around 3 to 5 minutes. What is required for the emergency are 100 mattresses, 100 blankets, medications, kitchen kits, tank of drinking water for 200 o 300 people during a month

and half, allowances, canned that they can be cooked. Leidy did the explanation that there are 42 houses of two floors in The Florida and in the report they said that there are not houses of second floor. Marlén makes the explanation that houses are communal dwelling where there is overcrowding of families and to go up or to take more people it is not be able to, since space would not exist for more people.

About arrangements for fixing the community center of Florida I sector, Mr. Iván Calderón clarifies that the Community Centers belong to the private sector and Alcaldía do not keep them mind inside the budget, so it could be requested a donation or passing a letter requesting the resource.

Mrs. Blanca of the neighborhood “El Silo” says that she has some resources and they gave them the place to carry out this type of repairs but in the Alcaldía they didn't authorize her land because they are not capable to be built. Mr. Iván clarifies that a thing is the resource that one has and another one is the land, that should be kept in mind if it is horizontal property or not and besides the land of the neighborhood “El Silo” is below the level of the river therefore, is not capable to be built because it would harm the situation that has the neighborhood in front of the flood risk.

The Cardal: The list one would have in 8 days, the list of families that have to go up to the second floor will be 12 first floor families, 62 families of second floor that would leave to the meeting point of San Carlos or the Brick Factory El Porvenir. In the right part of the neighborhood the exit of the families would be toward the Brick Factory El Porvenir where the Red Cruz and the Civil Defense would give tents, but if a case of fifteen days arrived so that they sent the carps, to the left side they would go toward San Carlos to request refugee it would be left in writing but the tents will be asked always and when they have the permission for arriving with people, It would have to be through Alcaldía. Mrs Leidy from Red Cross clarified that the tents cannot be offered because this material is for the benefit of a service, for example first aids in the event moment.

Mr. Iván clarifies that in events of disasters he cannot lend to each person a tent, The Local Committees will have a base to assist the emergencies, and the CLOPAD should have a kit to assist the emergencies. The family nucleus should have a minimum of inputs for the survival. The Firemen are eight in Soacha, four for shifts. According to this, the answer capacity is minimum, because a quick answer doesn't exist in front of this; the institutions will arrive, but not at once. For that reason the response capacity of the family nucleus should be immediate. The communities should get ready to give answer to these emergencies, for this they are receiving training in these workshops and they should reproduce the information with all the integrants of family.

Don Dagoberto says that the seats of Community Center room should be adapted with a budget it doesn't matter is minimum.

The responsible for the serious evacuation will be the leaders of the community, by the Cra 8 and the street 11, Dagoberto Silva and by the Cra 8 with Street 11, I Amparo Gamboa who is the secretary and the substitute of Manuel Gamboa. The informants of the evacuation would be the leaders of the community. The time for the evacuation with megaphone going around neighborhood to inform and would take 15 minutes in informing. The time of the preparation is half an hour while one informs for the streets and waits the people in the meeting point. They will move in 15 minutes. It would be needed in the refugee for 100 families, mattresses, pots, allowances, dilute, lanterns, piles, for eight days refugee in the place.

For the emergency plan management and evacuation the institutions like firemen, Red Cross, civil defense, and Alcaldía, are responsible and also for the event. The lieutenant Iván Riobueno of Firemen says that these trainings are in fact for this to be qualified in this emergency plan. The workshops are also to generate a response capacity in the event of an emergency. Franklin

of the Red Cruz urges to the communities to by themselves make the entire possible one to negotiate for his their own means the basic list that they would need during an emergency.

It is indicated that it is necessary that coordinately, it will be given the support to the applications that have been presented in written way, to solve the problem of the absence of the communal Living room in The Cardal who manifested that they have the land but it has not been built, and in case of emergency they would not have a place where to be refugee, and they have to move to distant places (as a school or the coliseum) it would be a last resource.

Llano Grande: to carry out the census and to obtain the information it would take eight days, the list of families to evacuate to the second floor is 22 families, the meeting point is "Parques del Sol" I, to warn to the community it would be María del Carmen Muete and Margarita Caicedo that are on the river margin. They would inform by phone, and on charge of evaluation preparations are Ana Isabel Ospina, María Carmen Muete and Margarita Caicedo, there are in total five streets to inform from the 9th to 13th, is informed street by street, it would be keep in mind a committee to carry out these functions, the time of evacuation is fifteen minutes, for the preparation 30 minutes. In the refugees diapers are needed, allowances, blankets, mattresses, and medicines the most essential. The more realistic time for the evacuation is thirty minutes.

Vereda Fusungá: 40 families that it is necessary to evacuate equivalent to 300 people, on July 1st it will be hold a meeting to know exactly how many families need to be evacuated. In the second floor according to the meeting, people will be chosen to delegate the functions in the moment of the evacuation. To communicate the information there is a lack of speakers, so it is not easy to communicate with community, so we have to do it at the moment house by house to be able to evacuate quickly. The make ready time and warning is five minutes, the time for arriving to the meeting point is thirty minutes that it is the same refuge of the Community Room of Fusungá. 40 mattresses are needed, 40 blankets, 40 kits, a kitchen semi-integral, a first-aid kit, qualified personnel, drinking water, portable bathrooms, lanterns with batteries, two radios with batteries and at the end it was confirmed the meeting on July 01 in Vereda Fusungá. The Mrs. Flor Maria has taken the task of measuring the level of and she had noticed the level has ascended 21 cm. and today 10:45 a.m. the level was in 45 cm.

Yeny suggested to update census since people that are in lease can move and other ones can arrive. Marlén answers that equally houses will be inhabited but they would upgrade it.

Regarding to the flap gate model there is interest of taking advantage of it to show it in the community meetings. It would be on charge of Leidy from Red Cruz to support the community meetings and she will attend each meeting according to the schedule.

Mrs. Marlén of the neighborhood El Silo requests the accompaniment of JICA Study Team for the neighborhoods meetings. Paulina suggested them to give mutual support and to join to the meetings oh the month of July, and that some leaders of some neighborhoods can accompany other neighborhoods if they require this like support. Leidy would be supporting some logistics of the meetings, and Yeny would go to the meetings as support. The responsible one for the good progress of community meetings would be the same leaders. They should remember that ICA project finishes in December and it is necessary to guarantee the continuity of the project, by means of solid coordination between leaders and its respective communities, among the neighborhoods, and between the leaders of the neighborhoods and the different institutions. The presence of the institutions in the meetings is in fact to narrow the contacts, to facilitate the coordination and to leave nexuses and open channels of communication.

**ATTENDANCE LIST
(June 27, 2007 Workshop)**

N	Complete Name	Community or Institution	N	Complete Name	Community or Institution
1	Nohora Molina Suárez	CAR	21	Ana Vict Pinzón Pta JAC	Llano Grande
2	Elizabeth Ortiz	Defensa civil	22	Isabel Molano Pinzón	Llano Grande
3	Manuel Herrera	Defensa civil	23	Maria del Carmen Muete	Llano Grande
4	Rosa Maria Varela	Vereda Panamá	24	Mary Luz Molina	La Florida 1
5	Jorge Infante	Ladrillera Santa fe	25	Miryam Martínez	La Florida 1
6	Israel Barreto	Ladrillera Santa fe	26	Diana Ramos	La Florida 1
7	Manuel Gamboa	El Cardal	27	M ^a . Carmen Treviño	La Florida 1
8	Benjamín Ospina	La Florida 1	28	Derly Martinez	La Pradera II
9	Dagoberto Silva	El Cardal	29	Guillermo Pérez	Cárcel de Zaragoza
10	Luis Eduardo Moreno	El Tabacal	30	Margarita Caicedo	Llano Grande
11	Blanca Marlén Silva	El Silo	31	Eloín Benavides– PtJAC	La Florida II
12	Gustavo Osuna	La Florida II	32	Raúl Rió bueno	Bomberos
13	Carlos Varela –Edil	La Florida II	33	Elvira Herrera Franco	Secretario Salud
14	Iván D. Calderón	Coordinador CLOPAD	34	Henry Mosquera	Bomberos
15	Sandra Vázquez	Alcaldía Soacha	35	Orlando Varela Vega	Puertoalegre
16	Angela Alfonso	Alcaldía Soacha	36	Jesús Ma. Márquez G.	ICA
17	José Eduar Pizo	Pb. El Divino Niño Soacha	37	Carlos J B	ICA
18	Gilberto Rodríguez	Cohabitar	38	Flor María Ramírez	Fusungá
19	Ramiro Tibacuy	Cohabitar	39	Franklin Sano	C. Roja Soacha
20	Marlene Martínez	La Florida II	40	Carlos Julio Galeano	Compartir Soacha

Workshop Title:	“Bomberos Training”	
Date /Place:	Sep 14 th Firemen Station	
Attendants:	JICA Study Team- Fire fighters	Total of attendants:8
<p>Discussion:</p> <p>Mr Inoue did a presentation about how to monitor the rain data received from all the stations showing in a whiteboard the format for inputting those data and the outline of the Monitoring System in Soacha(initial stage). Also, it was showed the correlation between San Jorge and Fire fighter station and was asked to the audience some questions related with rain data. Additionally, it was explained the frequency of observation during normal and emergency time station by station.</p>		

**ATTENDANCE LIST
(September 14, 2007 Workshop)**

N	Complete Name	Community or Institution	N	Complete Name	Community or Institution
1	Iván Riobueno	Cuerpo de Bomberos	5	Henry Mosquera	Cuerpo de Bomberos
2	Julio César Pérez	Cuerpo de Bomberos	6	Alexander Mosquera	Cuerpo de Bomberos
3	Raúl Riobueno	Cuerpo de Bomberos	7	Carlos Díaz	Cuerpo de Bomberos
4	Javier Rico	Cuerpo de Bomberos	8	Carlos Náder	Cuerpo de Bomberos

Workshop Title:	“Bomberos Training”
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Date /Place:	Sep 19 th Firemen Station	
Attendants:	JICA Study Team- Fire fighters	Total of attendants: 8
<p>Discussion:</p> <p>Mr. Inoue did a presentation about how to monitor the rain data received from all the stations, hourly and each ten minutes and during the last 24 hours. Also, it was explained the monitoring system outline from Firemen station, using internet connection to visualize the web sites of IDEAM, EAAB and DPAE for obtaining important data for Soacha river monitoring. Also, it was reinforced the observation frequency in each station.</p>		

**ATTENDANCE LIST
(September 19, 2007 Workshop)**

N	Complete Name	Community or Institution	N	Complete Name	Community or Institution
1	Iván Riobueno	Cuerpo de Bomberos	5	Henry Mosquera	Cuerpo de Bomberos
2	Julio César Pérez	Cuerpo de Bomberos	6	Alexander Mosquera	Cuerpo de Bomberos
3	Raúl Riobueno	Cuerpo de Bomberos	7	Carlos Díaz	Cuerpo de Bomberos
4	Javier Rico	Cuerpo de Bomberos	8	Carlos Náder	Cuerpo de Bomberos

PROTOCOL FOR SIMULATION DRILL NOVEMBER 8th (according to the meeting on Nov 1st)

TIME	Bomberos	INSTITUTION	
		Defensa Civil	Cruz Roja
10:00	Receives de alert radio calls		
10:05	Checking of the alert or radio call		
10:15	Firefighter´s car goes to check on site	Call the volunteers(chain phone calls)	The coordinators start the chain phone calls.
10:25	Organization of PMU(following SCI)	Meeting in the facilities of Defensa Civil	Meeting in the facilities of Red Cross
10:35	Necessities report PMU(preparation of equipments etc.)	Preparation of the equipments	Internal organization SCI for attending emergency
10:40	Firefighter station/ preparation of equipments	Exit of the observation group with equipment	Report to PMU
11:00	Coordinate Volunteer Firefighters on charge of coordinating JAC Leaders	Report to Bomberos	
11:10	Checking of meeting points reports		
11:20	Returning to normality: Does the risk decrease? Are there favorable sanitary conditions? The house can be use again?		

*Defensa Civil and Cruz Roja added phone numbers

ATTENDANCE LIST
(November 01, 2007 Meeting) Simulation Planning on November 8th.

N	Complete Name	Community or Institution	N	Complete Name	Community or Institution
1	Carlos Alberto Varela	Florida II	12	Luis Enrique Calderón	Llano Grande
2	Ma. Del Carmen Muete	Llano Grande	13	Manuel Herrera	Defensa Civil
3	Blanca Sofia Barbosa	Pradera	14	Iván Riobueno	Bomberos
4	Amparo Gamboa	El Cardal	15	Marlén Martínez	Florida I
5	Manuel Gamboa G.	El Cardal	16	Henry Ramos	Florida II
6	Adela Castro	Cien Familias	17	Leidy Piraneque	El Cardal
7	Luz Esperanza Sanín	Cien Familias	18	Erika Puentes	El Cardal
8	Benjamín Ospina	Florida I	19	Mariela Beltrán	El Cardal
9	Margarita González	Llano Grande	20	Nidia Yanet Cortés	Defensa Civil
10	Jenny Martínez	Cruz Roja	21	Gustavo Osumo	Florida II
11	Edwin Rojas Pérez	Cruz Roja			

Workshop Title:	“Study of Monitoring and Early Warning System for landslides and Floods in Bogotá and Soacha Municipality” Early Warning Simulation	
Date /Place:	Nov 6 th Alcaldia of Soacha	
Attendants:	JICA Study Team-Alcaldía Soacha- Fire fighters-ICA-Cruz Roja and JAC leaders – Defensa Civil	Total of attendants: 15
Discussion:		
<p>Mr. Takeya from JICA Study Team did a presentation about the simulation preparation, explaining first the basic principles for the simulation scenario of Nov 8th-07 and the necessary actions in the case of Florida II sector. Also, he explained the methodology for the simulation and the different stages for the drill.</p> <p>On the other hand, Mr. Sato gave an explanation about the early warning system and it was complemented by Mr. Inoue Kazunori.</p>		

ATTENDANCE LIST
(November 06, 2007)

N	Complete Name	Community or Institution	N	Complete Name	Community or Institution
1	Iván Calderón	Coord. CLOPAD	10	Manuel Herrera	Dir. Defensa Civil
2	Sandra Vásquez	Ing. Secretaria Infrstruc.	11	Flor Ramírez	Vereda Fusungá
3	Hassen Forero	ICA – San Jorge	12	Ismael Barreto	Ladrilla Santa Fe
4	Amparo Gamboa	El Cardal	13	Jaider Gallo	Cruz Roja
5	Ana de Ospina	Llano Grande	14	Benjamín Ospina	Florida II
6	Carmen Muete	Llano Grande	15	Luis Felipe Marroquín	Cien Familias

7	Bernardo Sánchez	Llano Grande	16	Carlos Varela	Florida I
8	Iván Riobueno	Bomberos	17	Eulalia Barbosa	Cien Familias
9	Julio César	Cien Familias			

PUNTOS DE ENCUENTRO		
Comunidad	Punto 1	Punto 2
COHABITAR	Rincón de San Alejo	
FLORIDA II	Antigua Ladrillera del Doc. Murcia	Cra. 2 con Cll. 7
CIEN FAMILIAS	Antigua Ladrillera del Doc. Murcia	Cra. 2 con Cll. 7
PRADERA II	Parte alta de la montaña	Cra. 2 Hacia Arriba de la Montaña
FLORIDA I	Salon Comunal Florida I	Dig. 7 No. 4 - 09
LLANO GRANDE	Parques de Sol II	Polideportivo
EL CARDAL	Antigua Ladrillera El Porvenir	Parques del sol II

In “Llano Grande” and “El Cardal” at the beginning was defined that one of the 10 meeting points was “Parques del Sol II”

In the meeting of Nov 7th this point was changed now, it would be “Parques del Sol I.”

COMMUNITY	PLACE MEETING POINTS	ADRESS
COHABITAR	Old Ladrillera del Dr. Murcia	Cra. 2 con Cll. 7
FLORIDA II	Old Ladrillera del Dr. Murcia	Cra. 2 con Cll. 7
CIEN FAMILIAS	Old Ladrillera del Dr. Murcia	Cra. 2 con Cll. 7
PRADERA II	High part of mountain	Cra. 2 up to the mountain
FLORIDA I	Community Center Florida I	Diag. 7 No. 4 -09
Llano Grande	Park del Sol I and sport complex	Calle 13 con Cra. 2 y Cra. 6 con Calle 12
EL CARDAL	Old Ladrillera El Porvenir y Parques del Sol I	Calle 13 con Cra 2 y Cll.9 con Cra 9

The simulation drill day Nov 8th it was said that meeting point Was so far for a possible evacuation, it should be taken on account 10 elders and sick persons, and also such meeting point was not so advisable.

RESPONSABILIDADES SIMULACRO NOVIEMBRE 8, 2007		
COMUNIDAD	Coordinador por Barrio	Encargado Punto de Encuentro
COHABITAR	Gilberto Rodriguez / Ramiro Tibacuy	Gilberto Rodriguez / Ramiro Tibacuy
FLORIDA II	Carlos Varela	Miguel Aguilera
CIEN FAMILIAS	Esperanza Sanin	Ramiro Salazar
PRADERA II	Blanca Barboza	Derly Martinez
FLORIDA I	Benjamín Ospina	Amparo Herrera
LLANO GRANDE	Jorge Lagos	Nelly Marquez
EL CARDAL	Dagoberto Silva	Manuela Beltran / Amparo Gamboa
ENCARGADOS POR CALLE		
FLORIDA II		
Cra. 2 B	Sara Palacios	
Cra. 2A Norte	Isabel Montoya	
Cra. 2	Gustavo Osuna	
Cra. 1 B	Jose Torres	Teresa Estupiñan
CII 8	Jose Rodriguez	
CIEN FAMILIAS		
Cra. 1 y CII 7 y 8	Jose Santos Benites	
CII. 7 con 1	Martha Corchuelo	
Cra. 2 Este con 8 y 7	Adela Castro	
Cra. 1 B y 1 A con 7 y 8	Esperanza Sanin	
COHABITAR		
Cra. 2 A	Ramiro Tibacuy	
Cra. 2 BIs	Gilberto Rodriguez	
PRADERA II		
Cra. 2 A Este	Pedro Guzman	Edgar Lopez
Cra. 2 B Este	Blanca Barbosa	
LLANO GRANDE		
Manzana F	Lucelia Lemus	
Manzana A	No se necesita	
Manzana C	Enrique Calderon	Josefina Guzman
Manzana G	Aida Milena Andrade	
Manzana B	Carlos Julio Beltran	Erlinda Martinez
Manzana E	Amelia Mendoza	
Manzana D	Jorge Hernández	
EL CARDAL		
Cra. 8 Este	Leidy Piraneque	
Cra. 8 A Este	Erika Puentes	Manuel Gamboa
Cra. 9 Este	Deisy Marcela Ruiz	
CII. 11	Leidy Piraneque	Danilo Cortez
LOCALIZACION DE PUNTOS DE ENCUENTRO		
COMUNIDAD	PUNTO 1	PUNTO 2
COHABITAR	Rincón de San Alejo	
FLORIDA II	Antigua Ladrillera Del doc. Murcia	Cra. 2 Calle 7
CIEN FAMILIAS	Antigua Ladrillera Del doc. Murcia	Cra. 2 Calle 7
PRADERA II SECTOR	Parte alta de la montaña	Cra. 2 Hacia Arriba
FLORIDA I	Salon Comunal Florida I	Dig. 7 No. 4 - 09
LLANO GRANDE	Parques del Sol I	Polideportivo
EL CARDAL	Antigua Ladrillera del Porvenir	Parques del Sol I
CONTACTO POR BARRIO CON SISTEMAS DE ALARMA PROPIOS		
PRADERA II	Derly Martinez	7-32-17-19 / 317- 2- 53- 42-17
CIEN FAMILIAS	Carlos Camacho	7-81-03-94 / 311-2-40-82-66
COHABITAR	Ramiro Tibacuy	Gilberto Rodriguez
PRADERA I	Rafael Silva	5-76-21-40

RESPONSABLES POR BARRIO. ALERTA Y EVACUACION POR INUNDACION RIO SOACHA							
Responsabilidad es comunidades	Florida II	Cohabitar	Cien Familias	Pradera II	Florida I	Llano Grande	El Cardal
Coordinador por Barrio:	Carlos Varela cra. 1b No. 9-19 tel. 7-22-82-87	Gilberto Hernández cra. 2bis No. 8-23 tel. 5-76-07-00	Esperanza Sanin cra. 1 No. 8-15 tel. 7-22-62-91	Bianca Barbosa Cra. 2a Este No. 7D-22 Tel: 5-76-42-81	Benjamin Ospina Cil. 10 No. 3-49 Tel. 7811611	Jorge Lagos Cil 9 No. 5-40 Este Tel: 7-22-24-57	Dagoberto Silva Cra. 8 No. 10-39 tel. 014-310-79-87
Coordinador por Punto de Encuentro:	Miguel Agilar Cil. 10 No. 2-07 Tel: 7-26-24-99	Gilberto Hernández cra. 2bis No. 8-23 tel. 5-76-07-00	Ramiro Salazar cra. 1 No. 7a-50 te. 317-321-73-68	Derly Janet Martínez. Crr. 2 B Este No. 8-23. Tel: 7-32-88-81	Amparo Herrera Cil. Diag 7a No. 5A 51E Tel: 7-26-13-01	Nelly Marquez Cra. 10A No. 5-18 Este Tel: 7-22-08-38	Amparo Gamba Cra. 8a este No. 11-10 tel. 5-78-49-00 Cra. 8a Este No. 11-10 Manuel Gamba Cra. 8a este No. 11-10 tel. 5-78-49-00
Encargada /o por Calle:	Cra 2 B Sara Palacios	Cra 2 Bis Juan Perez cra. 2bis No. 8-18 B17 tel. 5-77-35-22	Cra 1 y Cil 7 y 8 Jose Santos Benites Tel: 5-75-43-14	Cra 2A Este Pedro Guzmán Cra. 2A Este No. 8-33 Tel: 5-77-30-17 Edgar Lopez	Cra 4 Este Luis Hernando Arenas Cra. 4E No. 8-14 Tel: 7-21-06-55	Cra 7 Con 11 Maria del Carmen Muede cil. 11 No. 6-43 Tel. 7-81-43-80	Cra 8 Este Leidy Piranique Tel: 5-79-79-73
Encargada /o por Calle:	Cra 2 A Isabel Montoya		Cil 7 con 1 Mertha Corchuelo Cra. 1 No. 7A 50 Tel: 317-3045-20		Cil 9 Nelly Nataly Gonzalez Cra. 9 No. 8-34 Tel: 7-81-62-63	Cra 6 Jorge Lagos cil. 9 No. 5-40 este tel. 7-32-37-53	Cra 8 A Este Enka Puentes Cra. 8a este No. 10-09 tel. 5-90-09-48
	Cra 2 Gustavo Osuna Cra. No. 9-25 Tel: 7-81-39-73					Cra 5 Margarita Caicedo cra. 5este No. 10-36 tel. 7-22-13-06	

RESPONSABLES POR BARRIO. ALERTA Y EVACUACION POR INUNDACION RIO SOACHA							
Responsabilidad es comunidades	Florida II	Cohabitar	Cien Familias	Pradera II	Florida I	Llano Grande	El Cardal
Encargada /o por Calle:	Cra 1 B Jose Torres cra. 1b No. 8-00 tel. 5-77-24-23	Cra 2 Bis Juan Perez cra. 2bis No. 8-18 tel. 5-77-35-22	Cra 2 Este con By 7 Adela Castro	Cra 2 B Este Bianca Barbosa Cra. 2a Este No. 7D-22 Tel: 5-76-42-81	Cil 8 Jose E. Moralez Cil. 5 No. 5-19 E	Cil 9 Isabel Molano cil. 9 No. 5-30e tel. 7-21-26-73	Cra 9 Este Deisy Marcela Ruiz Tel. 7-21-71-46
Encargada /o por Calle:	Teresa Estupinan		Cra. 1 B y 1 A con 7 y 8 Esperanza Sanin Cra. 1 No. 8-15 Tel: 7-22-62-91		Cil 10 Jorge Lugo Cra. 4 No. 8-59 Tel: 7-81-62-83		Cil 5A Maria Trinidad Caro Cil 5 No. 5-18E
Encargada/o de Seguridad por calle:	Jose Torres cra. 1b No. 8-00 tel. 5-77-24-23 Carolina Contreras cra. 2 No. 7-52 tel. 7-22-56-21	Gilberto Hernández cra. 2bis No. 8-23 tel. 5-76-07-00	Jose Santos Benitez - cra. 1a No. 7a-40 tel. 5-75-43-14 Adela Castro cil 7 Este No. 1-25 tel. 5-77-35-22	Martha Infante	Amparo Herrera Cil. Diag 7a No. 5A 51E Tel: 7-26-13-01		Daniilo Cortaz cra. 8e No. 10-04 tel. 7-21-65-78

Resumen. N° Pisos y Viviendas en Area Inundable

Barrio	Estimado Total Personas	Viviendas (pisos) en Riesgo				Total	Afectación (familias)	Recomendación (qué hacer)
		1 piso	2 pisos	3 pisos				
Florida II								
Cra 2 B (solo Sur)		5	5	2	12		5 casas 1 piso	
Cra 2A (norte)		2	10	2	14		algunas casas	
Cra 2		9	15	9	33		Evacuar completamente	
Cra 1B		23	3	5	31			
Cll 8		3	0	0	3			
TOTAL Florida II	130 viv/350 pers	42	33	18	93			
Cohabitar								
Cra 2 A (sur)		14	20	6	40			
Cra 2 Bis		5	10	2	17		Evacuar media cuadra	
TOTAL Cohabitar	70 viv & 280 pers	19	30	8	57			
Cien Familias								
Cra 1 & Cll 7 y 8		5	1	0	6			
Cll 7 con 1		8	0	0	8			
Cra 2 Este con 6 y 7		6	0	0	6			
Cra 1B y 1A con 7y8		8	3	0	11			
TOT Cien Familias	300 personas	27	4	0	31			
Pradera II								
Cra 2A Este		13	20	8	41		Evacuar media cuadra	
Cra 2B Este		8	12	6	26		Evacuar media cuadra	
Calle 7,8,9		9	11	2	22			
TOTAL Pradera II	500 personas	30	43	16	89			
Florida I								
Cra 4 Este		11	9	0	20	8 viviendas	Evacuar completamente	
Cra 5		0	1	0	1			
Calle 10		2	1	0	3			
Calle 9		5	2	0	7	18 viviendas	Evacuar completamente	
Calle 8		20	9	0	29		Ruta de Evacuación	
Calle 7		5	6	0	11		Evacuar completamente	
TOTAL Florida I	2.200 personas	43	28	0	71			
Llano Grande								
Manzana F		12	8	3	23			
Manzana A		0	0	0	0	no afectada	n/a	
Manzana C		12	7	0	19			
Manzana G		4	8	0	12			
Manzana B		11	14	3	28			
Manzana E		3	3	0	6			
Manzana D		11	8	2	21			
TOT Llano Grande	1000 personas	53	48	8	109			
El Cardal								
Cra 8 Este		10	28	1	39	media cuadra	Evacuar 6 casas	
Cra 8A Este		7	18	8	33	media cuadra	Evacuar 6 casas	
Cra 9 Este		8	3	3	14			
Cll 11		3	1	0	4			
TOTAL El Cardal	800 pers.	28	50	12	90			
7 BARRIOS	Aprx 5430 ps.	242	236	62	540			

PROCEDURES IN FRONT OF BOMBEROS CALL

BARRIO EL CARDAL

Barrio El Cardal	Warning Alerting about the water level increase	Warning about imminent river overflow
<p>In charge of Radio and Sound Equipment:</p> <p>Dagoberto Silva</p> <p>Danilo Cortes: In charge of the barrio streets</p> <p>In charge of meeting points</p> <p>No. 1: Amparo Gamboa:</p> <p>No.2: Leidy Piraneque</p>	<ol style="list-style-type: none"> 1. Each one of us will advise our family 2. Advise about closing the water, gas pipes and electricity supply. 3. Ask community to have at hand the identity documents, first aid kit, clothes, blankets, cell phone, canned food, house keys and money and take up values to second floor. 	<ol style="list-style-type: none"> 1. Be in communication with the person in charge of speaker system and at the same time with the aid entities in case of needing them urgently and pay attention of: disabled persons, children, and pregnant women. In case there are persons that don't want to exit try to convince them in the best way. 2. Stay calm at all times and start evacuation, guiding people to meeting points. 3. Take the respective safety measures with the respective coordinators for assuring that all houses are well closed, after everybody had evacuated. 4. At the meeting point, take the respective list of the persons that are arriving. <p>Check which persons need help or medical attention and don't allow people to come back to the risky place to rescue values.</p>

Manuel Gamboa: In charge of block Cra 8 A East.

Erika Puentes: In charge of block Cra 8 A Este.

Leidy Piraneque: In charge of calle 9 and Meeting Point No. 2

PROCEDURES IN FRONT OF BOMBEROS CALL

BARRIO LLANO GRANDE

Barrio Llano Grande	Warning Alerting about the water level increase	Warning about imminent river overflow
<p>In charge of Radio and Sound Equipment:</p> <p>Bernardo Sánchez</p>	<ol style="list-style-type: none"> 1. Stop doing what we are doing in this moment, to be available. 2. Close the gas and electricity supply. 3. Prepare the first aid kit. 4. Communication with the block coordinators and leaders. 5. Explain the situation to block 	<ol style="list-style-type: none"> 1. Take away my family from danger. 2. Help taking disabled persons, children, sick people, grandfathers and another people. 3. Be aware about the warning from the institutions; give

	coordinators and they will start explaining to community with calm avoiding panic. 6. To review the functions assigned to each leader. 7. To check meeting point (Community Centre Florida II) availability. 8. Be in stand by about the water level changes of river. 9. Have umbrella, tents and rubber boots.	advice through speakers and others. 4. Look for the meeting points- in front of school San Carlos. 5. With the list of persons, check that all the persons arrive to the refugee. 6. Be in communication with the JAC members and barrio people or communities. 7. Turn off electricity and close the gas and water pipes. 8. To protect the persons in going up to the 2nd and 3rd store.
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Alternative communications: If it is raining strongly, we will try to communicate with Mrs. Flor of Fusungá to know how the river level is. We will call Bomberos. But, if we can't communicate with any of them we are going to be in standby about river water level gauge to see if it is exceeding its measurement (2.20 meters or more), then communicate to the block coordinators of barrio. Call the institutions, Bomberos, Defensa Civil, Cruz Roja and others etc.

PROCEDURES IN FRONT OF BOMBEROS CALL

BARRIO FLORIDA I

Barrio Florida I	Warning Alerting about the water level increase	Warning about imminent river overflow
In charge of Radio and Sound Equipment Benjamín Ospina	1. Stop doing what we are doing in this moment, to be available. 2. Prepare the first aid kit 3. Establish communication with the block coordinators 4. Explain the situation to block coordinators and they will start explaining to community with calm avoiding panic. 5. To review the functions assigned to each leader. 6. To check meeting point (Community Centre Florida I) availability. 7. Be in stand by about the changes and water levels of river	1. In case it is necessary execute the Action Plan.

PROCEDURES IN FRONT OF BOMBEROS CALL

BARRIO CIEN FAMILIAS

Barrio Cien Familias	Warning Alerting about the water level increase	Warning about imminent river overflow
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In charge of Radio and Sound Equipment	<ol style="list-style-type: none"> 1. To inform the leaders by block 2. These leaders by block will alert the communities. PERSONALLY (since the sound is deficient and communication distorts) 3. Be in stand by about the type of alert issued by fire-fighters or the comities in charge of watching the river hazard. 4. Non- perishable food etc. 5. Close the water, gas valves, and the electricity supply, prepare tents and umbrellas. 	<ol style="list-style-type: none"> 1. If situation becomes very serious, inform to community that river is much overflow; therefore the evacuation starts to the place agreed by the assembly. 2. Invite others to keep calm 3. Aware the community about the importance of saving live first and then belongings. If there is time take out the necessary clothes and things and water
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Informative Assembly Cien Familias.

Coordinate the steps to follow for the simulation on Nov 8th(know by the president)

Points for the assembly:

1. To strength the leaders by block and assigned clear and precise functions.
2. Aware the community about the ones who have sick persons at home, or the ones who need to have a specific drug to have it at hand. To keep a first aid kit at the house entrance and in emergency case everybody before evacuating should closet the water and gas pipes.
3. If there is enough time take the values up to the second floor or one thing above the other.
4. 2. To designate supporting comities to help the lonely persons or elders to take their values up.

PROCEDURES IN FRONT OF BOMBEROS CALL

BARRIO PRADERA II SECTOR

Pradera II Sector	Warning Alerting about the water level increase	Warning about imminent river overflown
In charge of radio and Sound equipment : Barrio Coordinator: Derly Martínez Kra 2B Este No. 823. Tel 732 8881 Pedro Guzmán Kra 2 A Este No.8-33. Tel 577 3017	<ol style="list-style-type: none"> 1. Stop doing what we are doing in this moment, to be available. 2. Have on hand the phones list of alarm, Red Cross and the block coordinators. 3. Inform the community, and keep them informed during the necessary time. 4. Have at hand a first aid kit, a blanket, a sheet and maybe camping equipment, clothes, water, and food (rice, salt, pana(sweet Colombian 	<ol style="list-style-type: none"> 1. Say to my house people to go up to second floor. 2. Close gas pipes and electricity supply and avoid the panic keep calm all time. 3. Take up the things and furniture, and close the gas pipes and lock the door. 4. Start evacuating the persons, grandfathers, disabled and kids. 5. Advice the community about taking up the values to the 3rd and 2nd stores. 6. The persons of the first store

Meeting point Coordinator: Blanca Barbosa Kra 2B Este No. 7D-22 Tel 572 4281	product), sugar, potato, milk) lantern, cell phone. 5. Be in stand by about the arrival of other messages to alert the community. 6. Stand by about water level increase. Be in contact with the responsible of monitoring. 7. In case it is raining, prepare tents, umbrellas and plastics.	start evacuating to the meeting point. Belongings and persons.
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PROCEDURES IN FRONT OF BOMBEROS CALL

BARRIO FLORIDA II

Barrio Florida II	Warning Alerting about the water level increase	Warning about imminent river overflow
In charge of Radio and Sound equipment : Carlos Varela	1. Call Mrs Flor in Fusungá 2. Turn on the speaker and advise the community about the situation. 3. Call the block coordinators to remind them their functions(look at functions list) 4. Call the block coordinators to remind their functions(look at functions list in the next column) 5. Start doing all what can be done in advance. 6. The community should be in alert and keep calm.	1. Houses with a second floor, please take children, elders and valuable objects to second floor. 2. Turn off the electricity, water and gas pipes. 3. Keep handy first aid kit, flashlights, cell phones, water, non perishable food, and blankets 4. Go towards 7th street and then to the brick factory of Dr. Murcia. 5. One store homes: put bricks under the legs of your beds. Then, put values on top of beds. 6. If you need help in evacuating, please contact the street leader

FUNCTIONS OF THE BLOCK COORDINATORS

<ol style="list-style-type: none"> 1. Stay calm at all times 2. Identify the homes with children, elders, people with physical disabilities and ill. 3. Take with you the family street lists. Go door to door. Warn them according to the particular situation. Which need to evacuate and which have to go to second floor, which has people in most vulnerable condition. 4. Ask members of homes that are readily prepared to help neighbors that need or request help. 5. Explain and direct them to the evacuation route 6. Explain and direct them to the Meeting point
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PASOS A SEGUIR ANTE LLAMADO DE BOMBEROS.

Barrio Florida II

- 1 Encender el altavoz y dar aviso a la comunidad de situaci6n.
- 2 Llamar a 10s coordinadores de cuadra para recordarles sus funciones (ver lista de funciones)
- 3 Ir adelantando toda aquello que se pueda hacer.

- 4 A la comunidad: que estén alerta y que mantengan la calma. Les recuerdo lo siguiente.
- 5 Las viviendas que tengan segundo piso suban 10s niños, ancianos y enceres. Bajar 10s tacos de luz. Cierren 10s registros de agua y gas. Tengan a mano lo siguiente: botiquín, linternas, celulares, radio transistor, agua, alimentos no perecederos, cobijas e impermeables.
- 6 Desplácese hacia la Calle 7 y luego a la Ladrillera del Doctor Murcia.
- 7 Las viviendas de un piso: suban las camas sobre ladrillos. Luego, pongan 10s enseres sobre la cama.
- 8 Pidan ayuda si la necesitan para evacuar.

FUNCIONES de 10s COORDINADORES DE CUADRA

- 1 Mantener la calma
- 2 Ubicar 10s hogares donde hay niños, ancianos, discapacitados, enfermos graves.
- 3 Avisar puerta a puerta. Los que deben evacuar y 10s que deben subir al segundo piso enseres y personas mas vulnerables.
- 4 Los hogares que ya están preparados, solicitar si pueden salir a ayudar a 10s vecinos que lo necesitan.
- 5 Indicar la Ruta de Evacuación.
- 6 Indicar el Sitio de Encuentro.

Pradera II

Ante mensaje de ALERTA

- 1 Estar pendientes para otro mensaje y alertar a la comunidad.
- 2 Estar disponible
- 3 Tenerla informada.
- 4 Tener la lista de 10s teléfonos de las alarmas de la Cruz roja y de 10s vecinos.
- 5 Dejar de hacer 10s que estamos haciendo en ese momento.
- 6 Cerrar el gas bajar 10s tacos y evitar el pánico, tener calma.
- 7 Empiezo a pensar.
- 8 Tener a mano un botiquín de primeros auxilios, una cobija, una manta y talvez un camping, ropa, agua y alimentos (arroz, sal, panela, azular, papa, leche) linterna, celular.
- 9 Estar pendiente que si el río sube. en contacto a llamar empezar a evacuar a 10s de mi casa hacia el segundo piso.
- 10 Subir las cosas y muebles vagar tacos, y cerrar el gas hachar llave.
11. Empezar a evacuar a las personas, abuelos, discapacitados y niños
12. Avisar a la comunidad que suban las cosas a 10s de 2 y 3 pisos.
13. Los del primer piso empezar a evacuar hacia el punto de encuentro. Enceres y las personas.
14. En caso de que este lloviendo, alistar capas, sombrillas y plásticos

Cien Familias

- 1 Asamblea informativa para a si coordinar 10s pasos a seguir en el simulacro el día 8 de noviembre conocida por el presidente.
- 2 Puntos asamblea.

- Fortalecer 10s líderes por cuadra y delegar funciones claras y concisas.
- Concientizar a la comunidad de quienes tengan enfermos o personas que deben tomar alguna droga

Especifica que la tengan a la mano. Mantener un botiquín a la Entrada de la casa, que en caso de emergencia

cada cual antes de evacuar deben cerrar 10s registros a paso de agua luz y gas.

- Si hay tiempo subir las cosas al segundo piso o elevar uno sobre el otro.
- Nombrar comités de apoyo a las personas solas o ancianos que les ayuden a subir 10s objetos.

Ante Alerta de Inundación

Alerta

- 1 Informar a las líderes por cuadra.
- 2 Las líderes por cuadra PERSONALMENTE alertaran a las comunidades (ya que el sonido es deficiente y se distorsiona la comunicación).
- 3 Estar pendiente del tipo de alerta que asignen 10s bomberos o 10s Comités Encargados de vigilar la amenaza del Río.
- 4 Si la situación se torna muy grave, se le informa a la comunidad que el río esta muy crecido, por lo tanto se procede a evacuar al lugar acordado por la Asamblea.
- 5 Invitar a la calma.
- 6 Concientizar a la comunidad de la importancia de salvar la vida primero que 10s enseres. Si hay tiempo sacar prendas necesarias y tiles, agua, alimentos no perecederos etc.
- 7 Procedan a cerrar registros de agua, gas, luz, alistar capas y sombrillas.

Florida I

Que hacer en caso de que Bomberos den una Alerta

- 1 Estar disponibles (dejar de hacer lo que estoy haciendo)
- 2 Cerrar 10s registros del gas y bajar 10s tacos de la luz.
- 3 Alistar el botiquín.
- 4 Empezar la comunicación con 10s líderes Encargados de cada Cuadra.
- 5 Explicar la situación.
- 6 Para que ellos empiecen a comentarles a la comunidad con calma y evitando el pánico.
- 7 Delegar funciones a cada líder.
- 8 Tener disponible el punto de encuentro (el Salón Comunal Florida (1)).
- 9 Estar pendiente de 10s cambios y niveles del agua del río, para mirar otros cambios.
- 10 En caso que sea necesario Ejecutar el Plan de Acción

LLANO GRANDE

PASOS A SEGUIR CON LA ALERTA TEMPRANA

- 1 Si está trataremos de comunicarnos con la señora Flor de Fusunga para saber como esta el nivel del río. Llamaremos a Bomberos.
- 2 Si no logramos comunicamos con ninguno de 10s dos. Estar pendientes del limnimetro del río.
- 3 Si esta pasado de su medida (2.20 m. o mas), comunicar a 10s coordinadotes de cuadra del barrio.
- 4 Llamar a las entidades, Bomberos, Defensa Civil, Cruz Roja y otros medio etc.
- 5 En Alerta Amarilla sacar a mi familia del peligro y procedemos a ayudar a sacar personas minusválidos, niños, enfermos, abuelitos y otros.
- 6 Estar pendientes de avisos de entidades perifoneo, alta voz parlantes y otros.
- 8 Buscar puntos de encuentro que es frente a san Carlos.
- 9 Seguimos el camino de Refugio donde van a llegar las personas.
- 10 Llevamos una lista de personas que llegaron al refugio.
- 11 Estar en comunicación la junta y el barrio o comunidades.
- 12 Apagar o bajar tacos, cerrar llaves de gas, agua y otros.
- 13 Proteger a personas y subir al 1ro 2do y 3er piso.
13. Tener programados carpas y botas de caucho

EL CARDAL

Nosotros 10s líderes el barrio el cardal nos comprometemos a realizar lo siguiente.

Dagoberto Silva: Encargado de Perifoneo

Danilo Cortes: Encargado de las calles del barrio

Amparo Gamboa: Encargada del punto de encuentro No. 1

Manuel Gamboa: Encargado de la cuadra Cra 8 A Este

Erika Puentes: Encargada de la

Leidy Piraneque: Encargada de la calle 9 y del punto de encuentro No. 2

Cada uno de nosotros avisaremos a nuestra familia.

QUE HACER EN EL PRIMER LLAMADO

El río se esta creciendo 10s encargados de cuadra.

1 Avisar que cierren llaves, de agua, gas, bajar tacos de la luz, y que tengan a mono 10s documentos de

2 identidad, botiquín, ropa, cobijas, teléfono celular, comida enlatada, las llaves de la casa y el dinero, subir las cosas materiales.

3 estar en comunicación con el encargado de perifoneo y este a su vez estar en comunicación con 10s organismos

4 de socorro en caso de necesitar a l urgente estar pendientes de: Personas discapacitadas, niños y mujeres embarazadas,

5 en caso de que haya personas que no quieran salir tratar de persuadirlos de la mejor manera posible.

6 Mantener la calma y comenzar la evacuación, guiando a la gente a 10s puntos de encuentro.

7 Tomando medidas de seguridad con el respectivo coordinador para que se cercioren de que todas las casas quedan bien cerradas, después de que todos hayan evacuado.

8 En el punto de encuentro, tomar la lista respectiva de las personas que van llegando.

Mirar que personas necesitan ayuda no atención medica no permitir que la gente se devuelva a l lugar de riesgo a

Rescatar enseres.

ATTENDANCE LIST (November 7th, 2007 - Preparation Meeting)

N	Complete Name	Community or Institution	N	Complete Name	Community or Institution
1	Carlos Varela - Florida II	Florida II	23	Luisa Esperanza Sanin	Cien Familias
2	Gustavo Osuna	Florida II	24	Carmen Rosa Ruiz	Florida I
3	Luis Enrique Calderon	Llano Grande	25	Orlando Heredia	Colegio Eduardo Santos
4	Carlos Julio Beltrán	Llano Grande	26	Aida Milena Andrade	Llano Grande
5	Nelly Rosmira Márquez	Llano Grande	27	Martha Corchuelo	Cien Familias
6	Amelia Mendoza	Llano Grande	28	Adela Castro	Cien Familias
7	Josefina Garzón Vargas	Llano Grande	29	Luis Alfredo Martinez	Llano Grande
8	Ana de Ospina	Llano Grande	30	Manuel Herrera	Defensa Civil - Soacha
9	Brallan Martínez Ospina	Llano Grande	31	Ramón Zapata	Defensa Civil - Soacha
10	María del Carmen Muete	Llano Grande	32	Jennifer Benavides	Defensa Civil - Soacha
11	Herlinda	Llano Grande	33	Iván Riobueno	Bomberos - Soacha
12	Jorge Ignacio Lagos	Llano Grande	34	Manuel Gaitán	Bomberos – Soacha
13	Jorge Hernández	Llano Grande	35	Carlos Díaz	Bomberos – Soacha
14	Derly Martínez	Pradera II	36	Amparo Gamboa	El Cardal
15	Blanca Barbosa	Pradera II	37	Erika Bibiana Puentes	El Cardal
16	Víctor Alirio Moreno	Florida II	38	Leidy Piraneque	El Cardal
17	Teresa Estupiñán	Florida II	39	Deisy Marcela Ruiz	El Cardal

18	Miguel Aguilera	Florida II	40	José Benítez	Cien Familias
19	Luis Alfredo Cubillos	Florida II	41	Julio Cesar Pérez	COBS
20	Carlos Camacho	Cien Familias	42	Julio Manuel Gaitán	COBS
21	Jorge Morales	Florida II	43	Luz Edith Llanos Herrera	Cruz Roja
22	Benjamín Ospina -	Florida I	44	Ubilerma Zanabria	Cruz Roja

3. Seminars

Seminar About Early Warning and Monitoring System for Landslides and Floods in Soacha and Bogotá Date: Friday July 27 th 2007 Hour: 1:30 p.m. – 5:00 p.m. Place: Crowne Plaza Tequendama - Salón Santander Bogotá, D.C.	
1:30 – 1:35	Opening speech (JICA Colombia representative-Mr. Kazunori HAYASHI)
1:35 – 1:45	Technical Cooperation from JICA in Disasters Prevention in Colombia(JICA Colombia-Mr. Shintaro AKIYAMA)
1:45 – 2:20	Plan about Monitoring, Early Warning System and the Pilot Project.(JICA Study Team-Mr. Kazunori INOUE)
2:20 – 2:50	Training of the Counterpart in Japan(Mr. Guillermo Avila-DPAE)
2:50 – 3:00	Questions
3:00 – 3:20	Coffee Break
3:20 – 3:50	Communitarian Activities about the Disasters Prevention in other countries(JICA-Study Team-Mr Ryo Matsumaru)
3:50 – 4:25	Communitarian Plan of Disasters Prevention in Soacha (Soacha City-Mrs. Sandra Vazquez)
4:25 – 4:45	Questions
4:45 – 4:50	Close Speech (DPAE)

Workshop Title:	“Study of Monitoring and Early Warning System for landslides and Floods in Bogotá and Soacha Municipality	
Date /Place:	July 27 th 2007. Tequendama Hotel	
Attendants:	JICA Study Team-Alcaldia Soacha-CAR-Fire fighters-Civil Defense- Community-National University-Distrital University-INGEOMINAS- Cundinamarca Government-JICA Colombia-IDEAM-Ministry of Housing and Development-EAAB- Contraloría Municipal-Territorial Planning Council-OEA-Colombia Viva School	Total of attendants: 84

Discussion:

After the presentations, the attendants did the following questions:

Mr. Eloín Benavides president of JICA Florida II sector of Soacha Municipality

Asked the following question to the engineers and Municipal Administration.

“We know that the risk is big for the ones who live at the river margin and together with the other community representatives we had pointed out JICA Study Team and The Municipal Administration the famous Canoas Collector that the Administration always says is going to make but we are still waiting. So, when is going to be constructed the collector?

And also, we would like to thank JICA Team for taking on account the community at Soacha Municipality.

Mr. Iván Calderon CLOPAD Coordinator answered:” The technical name is Right Margin Collector that links Canoas Collector, information supplied by EAAB about the works and projects that are going to be executed by the Aqueduct investment and this, will star in 2008 and will extend until 2015. Then, I would like to give the turn to the Engineer Manuel Puentes (Infrastructure secretary) yes,

all the technical part is ready, and the planning and housing secretary had studied it, and they already have the money to start the work that with good weather and with a good contract will be done in six months.”

Ms. Maria Del Carmen Muete representative of Barrio Llano Grande Asked: “We had sent to Soacha Administration a letter asking for the house affected by the legalization of the barrio. But, in my understanding I know that this answer will be given after JICA study finishes. Since, 33 houses had been affected by this legalization. So, I need to know this information for giving it to the community.”

The Architect Ms Olga Infante from Alcaldia of Soacha answered: “This was because the barrio is in the affectation area of Soacha River and these types of house were not allowed. However, when this type of work to mitigate risk will be executed the legalization of the properties will be analyzed again.”

Mr. Alfredo Gonzales of DPAE asked: “This question is for one of the JICA Representatives. Inside the programs and strategies for the early warning systems you are involving in a very active way the community. However, he would like to know if other alternatives had been proposed in front of the information truthfulness given by community. Since, we don’t have a culture in front of the information transmission, and equipments care, and in front of countless strategies to accomplish these kinds of objectives.”

Mr. Inoue Kazunori answered:” I think there are several points of view, to obtain Trustable and accurate data it is necessary and advanced equipment and in this sense, we have the same way of thinking. In the JICA study the persons are going to be involved it means, that measurements will be done by community, and we think this is the first step for the development of the early warning monitoring system. Because, if we install the automatic advanced telemetric equipment from the beginning and according to our experience in Japan and in other countries this kind of equipment could be easily stolen and even the governments issues an alert the persons won’t understand the meaning of this alert so, the result of this advanced equipment is not going to be effective for these kind of situations, as a first step we are proposing community involvement. So in this sense, the accuracy and the precision done by the community is not the main point. At this moment, the main point is to involve the community and to make them have experience and after the setting up of his kind of system we think that with the time it will be used the advanced telemetric system.”

Mr. Guillermo Avila from DPAE added:” The training experience obtained in Japan was important, first there is a strong difference between cultures Japan and Colombia and I share with JICA Study Team that data should have a meaning for the people That if it is not important for them persons won’t act. And DPAE has experience about community management and about how to proceed and the data importance. At the beginning DPAE wanted to be in charge of the community activities but it had been negotiated as a whole participation.”

Mr. Gerardo Rodriguez (CLOPAD Coordinator) represents the local major’s office of Ciudad Bolivar and congratulated DPAE and JICA for carrying out this project at Soacha and Bogotá and for the pertinent actions for risk prevention. And he offered his cooperation to JICA in the problematic of the benchmarks that have been broken by community at Altos de la Estancia so, in representation of the local major’s office he will give support with the police and supervision for a good performance of the monitoring points. That through Soacha CLOPAD and Ciudad Bolivar CLOPAD there should be carried out actions together for solving the problematic of both Soacha and Ciudad Bolivar.

Mr. Jaime Matiz from Gobernación de Cundinamarca: “In representation of Cundinamarca Government and the Regional Commission of Disasters I am giving a greeting and gratitude to the Japanese International Cooperation Agency and DPAE at the beginning of the year 2002 in the study of disasters prevention in Bogotá at the metropolitan area it was detected the necessity of defining a pilot project, and maybe the result were correct due to the proximity that Bogotá has with some Cundinamarca municipalities and in this case Soacha, Boundaries that maybe are not just geographical since the character units and cultural identity enlarge this topic. Again, I would like to thank the Japanese International Cooperation Agency and I would like to emphasize the cooperation with Soacha Municipality that should be in a horizontal way. Additionally, I would like to inform that DPAE support it has been doing the response plan for the emergencies of Soacha Municipality the one that includes the structure base nine for methodologies applied to the Capital District and the pattern contingency plan of localities for this pooled work between the international cooperation and the

departmental government, the locality and the support give by DPAE.

ATTENDANCE LIST
(July 27th, 2007 – Seminar 2007)

N	Complete Name	Community or Institution	N	Complete Name	Community or Institution
1	Diana M. Rubiano	DPAE - Director	43	Edgar Blanco	IDEAM
2	Guillermo Avila	DPAE	44	Alberto Buriticá	IDEAM
3	Eugenia Arboleda	DPAE	45	Oscar Martínez	IDEAM
4	Jesús Alberto Soto	DPAE	46	Eduardo Zamudio	IDEAM
5	Herman Urrea	DPAE	47	Jaime Matiz	Gobernación Cund.
6	Luis A. Plazas	DPAE	48	Haydee Matiz	Gobernación Cund.
7	Nubia Villamizar	DPAE	49	Antonio Gutiérrez	Gobernación Cund.
8	César Peña	DPAE	50	Nidia Garzón	Gobernación Cund.
9	Oscar Chaparro	DPAE	51	Gloria Lucía Ruiz	Ingeominas
10	Nubia Ramírez	DPAE	52	Ma. Juliana Rosas	Min. Amb, Viv. Y Desall.
11	Alba Naranjo	DPAE	53	Ana Ma. Hoyos	EAAB
12	Juan Pablo Gaona	DPAE	54	Iván Calderón	CLOPAD – Alc. Soacha
13	Luis A. González	DPAE	55	Sandra Vásquez	Alcaldía Soacha
14	Carlos Chavarro	DPAE	56	Angela Alfonso	Alcaldía Soacha
15	Diana P. Arévalo	DPAE	57	Olga Y. Infante	Alcaldía Soacha
16	Carolina Rogelis	DPAE	58	Luis M. Puentes	Alcaldía Soacha
17	Jorge Rosas	DPAE	59	Oscar Danilo Gómez	Alcaldía Soacha
18	Juan Carlos Padilla	DPAE	60	Raúl Riobueno	Bomberos - Soacha
19	Fernando Díaz	DPAE	61	Julián Alvarez	Contraloría Municipal
20	Elkín Fabián Ulloa	DPAE	62	Migdonia Rueda	Concejo Municipal
21	Dorian Meza	DPAE	63	Shintaro Akiyama	JICA Colombia
22	Neida Alvarado	DPAE	64	Naofumi Takase	JICA Colombia
23	Juan Pablo Leal	DPAE	65	Oscar Emilio Angel	OEA
24	Doris Suaza	DPAE	66	Roberto Montes Pérez	Colegio Colombia Viva
25	Juan Fernando Palacio	DPAE	67	Ma. Claudia González	CAR – Sec. Soacha
26	Germán Barreto	DPAE	68	Manuel Herrera	Defensa Civil
27	Libardo Tinjacá	DPAE	69	Miguel Lizarazu	Comunidades
28	Isaura Gómez	DPAE	70	Gerardo Rodríguez	Alcaldía Ciudad Bolívar
29	Lucy González	DPAE	71	Germán E. Godoy	S.D.A.
30	Gladis Puerto	DPAE	72	Pedro Sarmiento	Apcytel Ltda.
31	Giovanni Almanza	DPAE	73	Gustavo Avila	Apcytel Ltda.
31	José Luis Reyes	DPAE	74	Hna. Nidia Jiménez	Casa Juvenil Adelaida
33	Marcela Sanabria	DPAE	75	Eloín Benavides	Florida II
34	Julio González	DPAE	76	Derly Martínez	Pradera II
35	Pilar García	DPAE	77	Marlene Martínez	Florida I
36	Diana González	DPAE	78	Ana Victoria Pinzón	Llano Grande
37	Arturo Camacho	DPAE	79	Ma. del Carmen Muete	Llano Grande
38	Edgar Rodríguez	Universidad Nacional	80	Manuel Gamboa	El Cardal
39	Renny Balanta	Universidad Nacional	81	Jorge Lagos	Llano Grande
40	Carlos Cubillos	Universidad Nacional	82	Diego Guarín	Comunidades
41	Oscar Granados	Universidad Distrital	83	Leidy E. Gallo	Cruz Roja – Soacha
42	Eduardo Esparza	IDEAM	84	Diana Ramos	Florida I

Seminario:
**“Sosteniendo la Prevención de Emergencias en el Municipio de Soacha:
 Aprendizajes de las experiencias comunitarias,
 y desafíos para su permanencia en el tiempo”**

Fecha: **Martes, 13 de noviembre, 2007**

Lugar: Salón Esmeralda II. Hotel Crowne Plaza Tequendama, Bogotá.

Hora: 13:30 – 17:00

Propósito:

- Compartir la experiencia en prevención de emergencias del Estudio para el Sistema de Monitoreo y Alerta Temprana para Inundaciones y Deslizamientos en el Municipio de Soacha, por parte de los agentes directamente involucrados.
- Compartir la experiencia y aprendizajes de los proyectos pilotos en Río Soacha y Altos de Cazucá sobre Monitoreo y Alerta Temprana.

Programa		
Hora	Temas	A cargo de:
1:00 pm	Recepción de Invitados	Mesa recepción
1:15 pm	Bienvenida y presentación del programa	Alcaldía Soacha
1:30 pm	Sinopsis del Proyecto de Monitoreo y Alerta Temprana para Inundaciones y Deslizamientos en el Municipio de Soacha	Alcaldía Soacha, Ing. Sandra Vásquez
1:45 pm	El sistema de Monitoreo y Alerta Temprana	Ivan Riobueno, Bomberos
2:30 pm	El Monitoreo Cuenca Alta Río Soacha	Flor María Ramírez, Vereda Fusungá
3:00 pm	Refrigerio	
3:30 pm	El Plan Comunitario de Prevención de Emergencias por Inundaciones	Carlos Varela, Edil, Florida Sector II
3:50 pm	Sugerencias-aportes como observador del proceso, en qué contribuye y qué puede mejorarse del proyecto	Sr. Manuel Herrera
4:10 pm	El Monitoreo para Deslizamientos en Altos de Cazucá	Sr. José Flórez. Seguridad Institución Educativa Antonio Nariño – Sede Arroyo.
4:30	Actividades comunitarias en el DPAAE, sugerencias para la sostenibilidad	DPAAE
4:50 pm	Conclusiones: Los desafíos de la sostenibilidad de estos esfuerzos. Retos de la coordinación inter-institucional y comunitaria.	Alcaldía Soacha
5:00 pm	Fin de la actividad	

Workshop Title:	“Seminar about the Monitoring and Early Warning System for Landslides and Floods in Bogota and Soacha Municipality”	
Date /Place:	Nov 13 th 2007. Tequendama Hotel	
Attendants:	JICA Study Team-Alcaldia Soacha-Red Cross-CREPAD- Soacha Communities-Bogota Communities-Red Cross –CLOPAD’S Cundinamarca-Civil Defense-Firefighters-Hospital San Cristobal-DPAE	Total of attendants: 94

After the information given by the lecturers then the following questions and comments arose:

Mrs. Blanca Silva of the urbanization “El Silo” sector of the Municipality of Soacha.

To which entities do we have to address for carrying out the dredging of the channel that is behind “El Silo”?

Comment: We have sent petition rights for requesting the dredging of river and I was informed that the dredging was going to be done behind El Silo just until South Highway.

Mr. Iván Río Bueno of Firemen Soacha Responded: “These petition orders should go to the local committee of emergency like the police, firemen, governorship, civil defense, army and other organizations and committed entities. So make the petition order and we are so glad to send to the correspondent organisms.

Comment: Regarding to the sector of El Silo it is a problem that we have been discussing for many years, what happened was that the constructing company built the houses below the River level, for this reason the houses flooded easily. On the other hand, the aqueduct and sewer system company at this time communicate us that some works are under construction.

Mrs. Aidé Matiz from CREPAD:

“How long does it take to arrive to the point where you are at this moment regarding to the execution of simulations in Soacha Municipality?”

Mr. Iván Río Bueno from Firemen responded:” This work have been done for 6 months, in which first of all we give thanks for JICA help and in second place the help that the community had given to us, until the date there have been carried out two pre simulations and two simulations prepared together with the leaders of each neighborhood and aid organisms. Soacha had never carried out trainings for the prevention of disasters; nowadays there have been done trainings with the National Direction of disasters, and Red Cross department.

Mr. Aurelio Silva Rodríguez of Ciudad Bolívar from Bogotá : I would like to know if Bogotá Mayor’s office has something to do with money resources or collaboration with JICA, regarding to the elaboration of the project that is been carrying out in Soacha Municipality?

The Eng Sandra Vásquez of the Municipal Alcaldia of Soacha responded:” Bogotá as district doesn't invest resources in the Municipality of Soacha, this is an agreement among three parts who are the Municipality Alcaldia, the Alcaldia of Bogotá and JICA, and the district doesn't contribute with money resources to Soacha Municipality we are partners and for this reason the shield of Soacha appears like the one of Bogotá, but from Bogotá we don't receive any support.

Mr. Jaime Matiz of Cundinamarca Government: Which is the strategy that has the Municipal Administration to incorporate these non structural variables in the Territorial Ordering Plan of Soacha?

The Eng Sandra Vásquez of Municipal Alcaldia of Soacha responds: At this time we are updating the podium, the topics of risks and vulnerability hazard are very recent and we are now working in the municipality, and it was explained that the system is just under implementation among many things, the workshop of Territorial Ordering had been dedicated to define some areas without detailed and deep studies, the idea is to carry out workshops like the ones that are being carrying out with JICA. And with INGEOMINAS some phases started, but still, we are been looking for more solutions to be able to continue with the main objective.

But more than a question my comment is to complement the answer given to the gentleman of Ciudad Bolivar Regarding that effectively DPAE participates together with Soacha Alcaldia with one part of the monitoring study, landslides and floods in the sector of Bogotá and Soacha, at this moment we are doing studies in the affected neighborhoods, in fact one month ago their advance was presented to show the achievements reached in the studies that are carried out in Bogotá.

Mr. Dagoberto Silva of the Neighborhood Cardal asked: “How can we verify that the presidents of Community Action Boards that will arrive continue with the treatment of the river and don't finalize with the made effort? “

Comment: we would like Alcaldia to pay attention of river dredging in a preventive way.

Question:” How have you thought about talking and developing this in front of the institutions for making a public policy without having this in the objectives of the development plan?”

Comment:” It is known that for having continuity in this type of projects there should be some small or big investments has the community thought about this? “

Mrs. Flor María of Fusunga Vereda Responds: “When I said that we won’t let JICA leave I am referring to the acquired knowledge in this type of workshops that remain in our memory, what they taught us has to continue. We should not be afraid about the arrival of new presidents this is good, because it “oxygen” the community action boards to be able to continue with the objective proposed from the beginning of the project, those who acquire the knowledge know that we should transmit it, not to keep that information there should be carried out individual workshops by sectors, this depends on the motivation of community leaders, to make them see the importance, not because we are not more leaders we can not continue helping it is good that the youths can continue sowing that seed with belonging sense and there are many qualified people, one of the ways to transmit the information can be giving brochures, Besides this the Alcaldia or entities should continue with the support for the community, I don't believe that it finishes so easy. And we will look for spaces to continue disseminating the information. “

Mrs. Clara Hernandez representative of Prevention and Emergencies Attention of San Cristóbal's locality Asked: “How have you thought about carrying out that own committee? Why not to create a resolution to support these community teams for not allowing it to fall?”

Comment: I think that this proposal should be related with the Municipal Alcaldia of Soacha and at level of Municipality regulations, maybe they can work in a resolution to make it at law level and to know to whom we will have to give information since we can not work alone without the real necessity of real regulations.

Mr. Carlos Varela Florida II sector responded:

“One of the main things is the organization of this committee for having the kind of proposals that you have mentioned the least thing that can be done for community is to make these committees for been able to have a presentation with the entities.”

Mr. Edgar Martínez of CREPAD commented: “The river of Soacha Municipality in its trajectory as we saw in the presentation of the Eng Sandra is presenting many problems, I think that it is not only to locate the rain gauge, and water level gauges, it is much more is also to carry out a work with the community implementing a way of keeping the river clean, it should also be kept in mind the linking from the community to this task, a new administration arrives and it will be leave as a recommendation. “

Mr. Carlos Varela Florida II Sector commented: “It is said with frustration, since we know very well that CAR people should be leading this project, unfortunately, we don't have this support, we have not been able to work together, JICA invited them in several opportunities and just they accompanied us in two occasions and we never seen them again. Doctor, I would like to know how to involve CAR to the joint work of Municipal Government's Team and the Communities.”

The Eng Sandra Vásquez said:” Basically it is an explanation in front of something that we have speaking that is sewage waters toward Soacha River, we would like to inform that Municipality already contracted left side Soacha River collector that you named “Collector Canoes” but specifically that name is a collector that was contracted by \$1.911.000.000 (a Thousand nine hundred eleven million pesos M/CTE) that are approximately 1.4 kilometers in pipe between 14 and 30 Inches the idea is that all the sewage that arrive to Soacha River no longer will arrive.”

Claudia Sandoval local Agent of the Direction of Prevention and Attention of Emergencies

in Bogotá for the Localities of Usme and Sumapaz: “I am related with the local administrating meetings with the corporation, and as it is known I have contact with the community and the administration, this means a series of policies elaboration and investments in certain topics that are strategic, since we are in the formulation of the Territorial Ordering Plan, I work in the district of Bogotá, and I don't know a lot about the dynamics of the Department, however it will be very important that inside this plan the participation topic and the environmental topic regarding to the emergency preparations will be taken on account. “

Mr. Carlos Varela of Florida II Sector commented: “It has been done a work together with the community, and the necessities are understood, for this reason inside this ordering plan they have been already sent proposals for keeping in mind all the problematic created by the quarries, the entrances of money are minimum the benefits are few and the problems are incalculable, the development is for the district and it is not for Soacha.”

Mr. Arturo Camacho Local Agent of Direction of Prevention and Attention of Emergencies Ciudad Bolívar informed:” Inside the ordering plan according to decree 1729 of the 2002 it is specified that it should conform a communitarian basin council that is inside the rights and that it will be good in front of CLOPAD Cundinamarca cooperation that clarifies how to participate. “

Mrs. Elizabeth from El Silo commented: “We see how a good part of the municipality is participating in the program, I congratulate JICA but I would like to know if these kind of programs can extend, it is known that this river is not known as river but as a channel, if it is not dredged completely we will suffer, the group The Silo urban complex has sewer system internally but this exits towards a fence and the water it is not channeled in any way.”

Mr Manuel Herrera of Civil Defense Responded:” We are working with schools, but until this moment the processes is just starting.”

Luís Alejandro Rojas from Civil Defense of Bogotá:” I would request to the community and the authorities to make groups for acting as first respondents, to be able to act in a disaster, if you don't have proper persons to carry out such trainings we can go to train schools and community.”

Mr. Manuel Herrera of the Civil Defense of Soacha:” At Cundinamarca level there is a great number of instructors in Soacha since there are more persons; there were already held trainings together with Red Cross. “

The Engineer Sandra commented: “people of the community are the ones who pick up the data, the ones able to verify how landslides influence in Cazucá, there have been done some educative trainings, and first is better to train teachers for making them the ones to transmit the message.”

Comment:” There are 240 critical places, first studies are made and depending on this the works start ,they should be socially visible, from these studies they are done monitoring systems, in Ciudad Bolivar and Altos de la Estancia that are very critical, DPAE will collaborate with the works that are starting to carry out. “

Doris Suaza sub director of attention and disasters prevention more than a question is to clarify doubts: “As Dr. Sandy said first one thing that should be made is to identify the necessities, at this moment there are 240 located places, once we identify them, we start to identify the processes, recognizing that the community and the entities should be together. It is known that we don't have all the money but we will continue working with effort, in Ciudad Bolívar and Altos de la Estancia there was a great landslide some time ago. And also, we should start working with Creek Lima Caracoli, and in other sectors the community will be accompanied. “

Fabio Barga is the President of the committee of Trompeta Creek and Infierno from Tunjuelo River Council “In Trompeta Creek there are 366 families for relocating, Habitat Secretary is the one in charge and they have been doing it for more than 6 months, as committee we would like that competent authorities make the relocation of all the persons that need it, in

Ciudad Bolivar for example both branches are river are now under construction.”

ATTENDANCE LIST
(November 13th, 2007 – Seminar)

N	Complete Name	Community or Institution	N	Complete Name	Community or Institution
1	Diana Patricia Arévalo	DPAE	46	José Rodríguez	Comunidades Bogotá
2	Carolina Rogelis	DPAE	47	Rosalba Chacón	Comunidades Bogotá
3	Angela Báez	DPAE	48	Oscar Estupiñán	Comunidades Bogotá
4	Paola Sánchez	DPAE	49	Esperanza Corredor	Comunidades Bogotá
5	Sandy Bohórquez	DPAE	50	Juan de Jesús Rodríguez	Comunidades Bogotá
6	Diego León Espinoza	DPAE	51	María Inés Díaz	Comunidades Bogotá
7	Isaura Gómez	DPAE	52	Misael Parra	Comunidades Bogotá
8	Doris Suaza	DPAE	53	Maria Lidia Tovar	Comunidades Bogotá
9	Clara Hernandez	DPAE	54	Alejandro Ballén	Comunidades Bogotá
10	Tulio Ismael Villamil	DPAE	55	Roberto Delgadillo Ruiz	Comunidades Bogotá

N	Complete Name	Community or Institution	N	Complete Name	Community or Institution
11	Martha Rodriguez	DPAE	56	Lisímaco Lara	Comunidades Bogotá
12	Martha Lliana Rocha	DPAE	57	Parmenio Muñoz	Comunidades Bogotá
13	Jaime Matíz	CREPAD- Cund.	58	Carlos Varela –Florida II	Proyecto Piloto
14	Nidia Garzón	CREPAD- Cund.	59	Benjamín Ospina–Florid I	Proyecto Piloto
15	Alonso Muñoz	CREPAD- Cund.	60	Dagoberto Silva - Cardal	Proyecto Piloto
16	Haydee Matiz	CREPAD- Cund.	61	Bernardo Sánchez –Ll. G.	Proyecto Piloto
17	Edgar Martinez	CREPAD- Cund.	62	María del Carmen Muete	Comunidades - Soacha
18	Ricardo Rivera	Cruz Roja - Bogota	63	Amparo Herrera	Comunidades
19	Carlos Camacho	Cruz Roja	64	Flor María Ramírez	Comunidades
20	Rafael Flétscher	Cruz Roja	65	Edinzón Danilo Cortés	Comunidades
21	Esmeralda Valero	Cruz Roja	66	Nelly Rosmira Márquez	Comunidades
22	Arturo Camacho G.	CLE Bogotá	67	Erika Viviana Puentes	Comunidades
23	Claudia P. Sandoval	CLE Bogotá	68	Ana de Ospina	Comunidades
24	Javier Eduardo Garcia	CLE Bogotá	69	Blanca Silva	Comunidades
25	Jaime Andrés Martínez	CLOPADS Cund.	70	Jorge Amaya Bohorquez	Comunidades
26	Mario Rodríguez	CLOPADS Cund.	71	Luis Enrique Calderon	Comunidades
27	Edgar Enrique Gálvez H.	CLOPADS Cund.	72	Brallan Martinez Ospina	Comunidades
28	Diana Cristina Nieto	CLOPADS Cund.	73	Josefina Garzon Vargas	Comunidades
29	Jaime Martínez	CLOPADS Cund.	74	Leonardo Quintero	Comunidades
30	Mercedes Pinzón Bustos	CLOPADS Cund.	75	Reinaldo Zapata	Comunidades
31	Henry Palacios	CLOPADS Cund.	76	Marlen Silva	Comunidades
31	Luz Leal	CLOPADS Cund.	77	Elizabeth Fonseca	Comunidades
33	Iván Riobueno	Bomberos - Soacha	78	Alberto Saavedra	SILO
34	Julio Pérez	Bomberos	79	Joselino Florez	Comunidades
35	Manuel Gaitán	Bomberos	80	Yindamir Sanchez	Comunidades
36	Manuel Herrera	Defensa Civil - Soacha	81	Jorge Ignacio Lagos	Comunidades
37	Luis Rojas	Defensa Civil - Soacha	82	Jose Camacho	Comunidades
38	Antonio Trejos	Cruz Roja - Soacha	83	Maria Moreno	Alc. San Cristóbal
39	Luis Enrique Escandón	Cruz Roja - Soacha	84	Jhon Paez	Hospital San Cristóbal
40	Richard Ballén	Cruz Roja - Soacha	85	Isabel Montoya	Servicios Públicos Dist.
41	Franklin Sana Burgos	Cruz Roja - Soacha	86	Yasmin Palacios	Servicios Públicos Dist.

42	Esmeralda Valero	Cruz Roja - Soacha	87	Yaqueline Bohorquez	Servicios Públicos Dist.
43	Eduardo Esparza	IDEAM	88	Ivan Calderon	Alcaldía de Soacha
44	Luis Emilio Fonseca	Comunidades Bogotá	89	Sandra Vazquez	Alcaldía de Soacha
45	Fabio Vargas	Comunidades Bogotá	90	Angela Alfonso	Alcaldía de Soacha

Seminario

“Sostenibilidad del Sistema de Monitoreo y Alerta Temprana para deslizamientos e inundaciones en Bogotá y Soacha, y la importancia de la participación de la Comunidad”

Viernes, 1 de febrero de 2008

Salón Esmeralda - Hotel Crowne Plaza Tequendama, Bogotá.

13:30 - 17:00

Propósito:

- Presentación de las recomendaciones del Equipo de Estudio JICA
- Panel de discusión acerca de la sostenibilidad del Sistema de Alerta temprana par deslizamientos e inundaciones en Bogotá y Soacha, y la participación de la comunidad.

PROGRAMA

13:00 - 13:30	Recepción de Invitados Mesa de Recepción
13:30 - 13:40	Bienvenida y Presentación del Programa - Alcaldía de Soacha
13:40 - 15:00	Plan y Recomendaciones del Estudio - Equipo de Estudio de JICA
13:40 - 14:00	Deslizamientos para Bogotá y Soacha Fumihiko Yokoo (Experto en Deslizamientos)
14:05 - 14:15	Inundaciones en Bogotá Kazunori Inoue (Experto en Inundaciones)
14:20 - 14:45	Inundaciones en Soacha Ryo Matsumaru (Experto en Planeación y Prevención de
14.45 - 15:00	Desastres) Plan Comunitario para la Prevención de Desastres en Soacha Paulina Chaverri (Experta en Actividad Comunitaria)
15:00 - 15:30	Refrigerio
15:30 - 16:40	Panel de Discusión acerca de la sostenibilidad del Sistema de Monitoreo y Alerta Temprana para Deslizamientos e Inundaciones en Bogotá y Soacha, y la participación de la Comunidad DPAE - (Guillermo Avila), Soacha - (Ivan Calderón), IDEAM (a ser nombrado), Equipo de Estudio (Ryo Matsumaru), Moderadora (Paulina Chaverri)
16:40 - 16:50	Conclusiones: Los desafíos de la sostenibilidad de estos esfuerzos. Retos de la coordinación Interinstitucional y Comunitaria.

DPAE Guillermo Avila	
16:50 – 17:00	Discurso de Cierre - JICA Colombia

Workshop Title:	“SEMINAR ABOUT THE SUSTAINABILITY OF THE EARLY WARNING MONITORING SYSTEM AND EARLY WARNING FOR LANDSLIDES AND FLOODS IN BOGOTA AND SOACHA MUNICIPALITY AND THE COMMUNITY PARTICIPATION”	
Date /Place:	Feb. 1th 2008. Tequendama Hotel	
Attendants:	JICA Study Team-DPAE, IDEAM, Alcaldia Soacha-Red Cross-CREPAD- Soacha Communities-Bogota Communities-Red Cross –CLOPAD’S Cundinamarca-Civil Defense-Firefighters	Total of attendants: About 100

After the presentations of lecturers started the discussion panel with the following questions:

1. What do you think panelists and Audience about these Policies for Monitoring system, transference information system, early warning system and equipments maintenance?

Mr. Guillermo Avila from DPAE: Thank you very much I would like to thank JICA, and Study Team and also the attendance of public here in the discussion panel. And regarding to the questions; from my personal point of view and also from the institutional point of view at the beginning we had some differences with JICA Study regarding the proposal for early warning monitoring system basically because DPAE had a relatively high experience with the early warning system but there were proposed some adjustments and we finally arrived to some interesting agreements. Well, regarding to the first question about the alert system purely communitarian I believe that is very important a community-based system mostly for the very rapid basins where the flood comes very rapidly and where there is not enough time for making telemetry operatives. However, for me the ideal would be a Mixed System where there is a much supported technology but also where the community understands what should be done. This Mixed System lets say redundant, makes easier the tasks and give reliability to the systems.

On the other hand, the systems require periodically calibration and lot of work with community to make them understand system. So, form my point of view I consider JICA policy of including the communitarian topic as accepted. But, I will add to consider the Mixed System as complementary.

Regarding to the second question about the communication from upstream to downstream, we were talking about a critical point and taking very fast measurements when time is short, in such way that if there is clear communication and is given timely and clearly for me it seems very good for communications but, obviously in this sense it is important the community training because regarding to the next question the false alerts can create critical problems in such way that if false alerts area created continuously after the system recognition could be lost then, we should be very careful with these false alerts, and very well flights calibration , and a lot of continuous practices so in this two senses the community participation with training given by entities I consider is important also, a frequent training and community practices area needed for understanding equipments readings. Finally, regarding to the fourth point about the possibility of getting money resources

I think that is not a critical point in these early warning systems, when we think about consequences for the community and the lot of damages. But, if you propose a very well created project resources can be obtained whether national, municipal or international level. So, the point is to have a clear idea of the problematic we try to solve with these systems and so regarding to the equipments already installed it is important to make maintenance and show the importance of keeping them working and I am sure that money resources will arrive.

Mr. Francisco Reyes networks coordinator from IDEAM; Thank you for this invitation I would like to give a general summary taking on account the four points that are local competence. But, IDEAM works with big scale events where we have long response times. And, we always give the information generated from our stations through the Emergency Committees for the decisions taking.

On the other hand, we had also some differences at the beginning with JICA Study mostly the Engineer Leonardo Fajardo that was one of the Study advisors; he is one of the telemetry experts of the country. Since, we said that equipments should have at once the telemetry network incorporated for creating a Mixed System as it was suggested by the Sub director Mr. Guillermo Avila. Finally, the Study Team wanted to involve more the community for the experiences they had and I would like to congratulate JICA Study Team for the communitarian workshops done and we hope to continue working in the future for the telemetric system.

Regarding to the third point, for not creating false alerts as Mr. Avila said it should be clarified who is going to take decisions at local level. Because, one thing is to produce the information and another one is who is going to take decisions, for avoiding the system lost in future.

Regarding to the fourth point that is maintenance of equipments for all the systems with saving level, everybody has the capacity of supplying the minimum, is just to put effort into that. We as IDEAM presented a small proposal in a meeting last week for the equipments maintenance not just for the automatic equipment but for the conventional too. Because, as it is well known our conditions are very different from models ran therefore, we have to adjust this information with site conditions, look the flood marks and start increasing the models this more or less corresponds to IDEAM and we would like to cooperate according to the solicitude done by Alcaldia of Soacha through our Director Mr. Carlos Costa.

There was presented a minimum proposal that from IDEAM in a meeting last week for overcoming the aspect of maintenance not just in the aspect of automatic equipments, there should be done some measurements, because our conditions are different to the current models and they should be adjust with the site conditions and increment it gradually.

Mr. Iván Calderón(CLOPAD): I would like to make a parenthesis before answering the four questions I would like to say that in several administrations where there are now evident changes by the election of new majors we could thing that any traumatism could arise with the process that came before. But, this new administration was so fast in understanding the process and parallel to this we were handling a relocation case in Divino Niño with 56 families that in less than 11 days we carried out and JICA is making now a big part of the work.

Now regarding to the questions it is evident the difference of platform we have at municipal level and we can never compare with DPAAE or IDEAM that are light years from us. But, the idea of the administration with the help of JICA Study was trying to start in some equilibrium technical or communitarian point, and we accepted the mixed process as Mr. Avila said. And for us it is very important to have some partners for the processes strengthening and we already identified IDEAM that is the national authority for the meteorological topic and we hope to have in the short term an agreement project that was already checked by both institutions and is it is just pending a budget topic that is not a critical one but it is important to establish inside the written documents which are the resources that will support this project we are sure this will be done in a short term and also IDEAM

will be benefit and Soacha administration too because currently, from San Jorge Station they are receiving data monthly and the idea is to receive data three times a day in real time and IDEAM will receive the information through internet or by the system decided later.

Regarding to information transference topic, for us is key to take on account communities and institutions that help us among them DPAE that has those telemetric and data gathering systems upstream of Ciudad Bolivar and Altos de la Estancia and at Sierra Morena there is an information that at some moment could be used according to IDEAM's information. And, the administration officers trained will be able to take decisions regarding to the alerts obviously with their following up because they belong to the monitoring, and in the topic of equipments maintenance as I said before we are just waiting to conclude and have a cooperation agreement with IDEAM and we would like to have another one and look for more alternatives as DPAE, EAAB and other institutions like CAR and CREPAD and in regional aspects to continue having JICA's cooperation.

Mr. Ryo Matsumaru from JICA Study Team: Thank you for your valuable comments Mr. Avila expressed a very good point regarding the training for communities and also IDEAM Mr. Francisco Reyes expressed about the cooperation between organizations we are also very happy with this kind of comments as Mr. Ivan said that Soacha Municipality IDEAM and DPAE have different situation but we can start from the same point this is also a good point for the sustainability of the early warning system but we could start from the same point and it is something good too, the purpose of early warning is to help the people, that affected persons maybe have a higher awareness about the river or landslide behavior and that's why we emphasis in the involvement of the people in our proposed early warning monitoring system. But people usually doesn't know about actual behavior or technical aspects of disasters so that as Mr. Avila expressed training is very important and also we are thinking about the importance of continuation of observation and continue accumulating information of actual behavior of river and disasters. This type of information will contribute to reduce the false alert so like this many things are related. So, that actual and continuous observation of phenomenon is very important in addition to the monitoring system. Mr. Ivan expressed about the relocation of landslide area in Divino Niño already Soacha relocated about 56 families, and we already saw some empty place just next to the mountain and we have to maintain such area as it is. To start this JICA STUDY Team is constructing this temporal work and this kind of work is important to reduce the damage by disasters. Thank you very much I would like to receive other comments from other panelists and audience.

Questions and comments from the audience to the panel members:

Firefighter Operative Commander: My name is Mr. Raúl Riobueno operative commander of firefighter station of Soacha Municipality and it is important that community participates in the information and to be alert because community is affected and is acting as first respondents so through CLOPAD the Municipality is supplying a brochure to handle de Incidents Command System(ICS) and the first respondent should decide where to evacuate according to the agreed meeting points and through firefighters and CLOPAD we could intervene for finalizing the ICS and using the different communication media so we can anticipate to overflowing Upstream or Downstream to say to community through radio and inform about a possible flood in a site so, that's why the first respondents should intervene.

Aide Matiz from CREPAD a very special greeting from Mr. Matiz that couldn't attend this meeting but I would like to make a general comment. It is important that monitoring will be done by community 3 times a day but, it is important also that this information will be handled by persons that could understand it and can take decisions. It is clear that community is important but the final

decision about if it is necessary to evacuate should be taken by a local authority. Another point is information transmission and the damages to these equipments so there are entities like CAR, EMGESA, EAAB that have near monitoring points in our case we are close to Bogotá River and with those points we can extend the monitoring in the zone. In this sense, as a suggestion it will be good to make a technical checking committee and a committee for network extension in a future.

Mr. Pedro (JAC Leader) from Pradera II: First of all, we would like to give thanks to JICA and all the institutions concerned about our problems and necessities. I think it is important to involve the community in this kind of activities and we can also help to avoid false alerts because we as JAC leaders can pay attention and inform the community. And regarding to the maintenance budget for equipments already installed, just as suggestion if it is possible to make strategic alliances with entities like CAR, EMGESA etc... for checking the allocation of budgets for maintenance because it will be disastrous that during time these equipments will be lost or damaged. And we can not help because JACS don't have any money resource. But, regarding to IDEAM officer we would like to know which kind of collaboration IDEAM can commit with the inhabitants living around the river in the ZMPA of Soacha River that was affected by floods.

Mrs. Flor María Ramirez from Fusunga Community is a basic basis for the monitoring but it is very important to continue with the support of the institutions in our case with Soacha Municipality support. Since, we are in permanent communication by radio with downstream people and it would be good that Soacha officers will visit us more frequently to know more about community and so like this decentralize CLOPAD committee and in the same way that we arrive to you, you can arrive to us and of course you will be welcome.

Mr. Dagoberto Silva: First all I would like to thank for all the communitarian workshops received. Regarding the damages and theft of equipments I would like to suggest as safety measurement to make a cement base around the equipment just around the equipment that's very simple and EAAB and us as leaders can take care too but, not at late hours because if water level gauge was stolen at 1 am I was sleeping and I couldn't noticed. And regarding to speaker systems also Soacha officers can come each 3 or 6 months to make a preventive maintenance even though we have responsibility above them.

At Llano Grande and el Cardal water level gauge is showing 1.23m but just mud we have a lot of sedimentation so in this sense we would like to ask for preventive maintenance like periodic dredging of river.

Ana Rodríguez from Environment Minister: I am on charge of supporting the risks prevention and territorial ordering giving technical assistance. So, as a suggestion for a long term solution for the equipments maintenance the political and regulation instruments already exist and as a rule it is established that inside municipal budgets money should be allocated for the Funds of Disasters Prevention and Environmental Funds. So, you can use these money resources for having such maintenance and all years at the beginning of year it is carried out a control by government superior entities to the government institutions to check that inside the improvement plan all these money resources will go to the Disasters Prevention Fund.

On the other hand, I think that in other Colombian regions affected by landslides and floods this experience could be duplicated.

Nohora Molina from CAR Soacha- First of all I would like to recognize and congratulate JICA Team since, I was in all the workshops given by JICA and also the simulation drill that was excellent. And what more amazed me was the participation of community that has a belonging sense of the processes

so it is like this how it could be guaranteed the success of these processes along the time this is something very valuable that can not be lost and community should continue with the same enthusiasm for not losing all the efforts made by Alcaldía and JICA because you are the ones affected by this kind of landslides and floods so, continue with the same effort and enthusiasm because you are the pioneers and you could give example to other communities. And finally, from CAR you will have all our support and inside our duties we have to support CLOPAD too.

Eng Jorge Rosas from DPAE- The community participation is important because they as first respondents should have access to data mostly from steep slopes creeks like Chiguaza. I would like to highlight DPAE'S necessity regarding to telemetry, the information redundancy, the integration with alert systems already developed by DPAE in real time and the operative aspect of emergencies attention because these ones will allow community to make evacuation if levels exceed and emergency is going to happen. But, with telemetry we are going to earn time for acting above the emergency together with other entities like EAAB and other ones that will be required.

Mrs. Doris Suaza from DPAE – I would like to highlight the importance of community participation but it is also vital the participation of institutions and for having co-responsibility the system should be mixed and also increasing the recognition inside a protocol frame that will establish roles of each responsible.

Eng Dorian Meza from DPAE: The telemetry will be useful not just for having a good control above equipments but also, allow us to visualize what is happening to equipment and in the case of maintenance is good for having a continuous control of electronic part of equipment and data. So in this sense, it is important that system will be dual, mixed to decrease a lot in maintenance and operation costs since, it won't be necessary to download data and so like this detect faster and timely data or equipment problems, it is important that systems are dual.

Francisco Reyes –IDEAM: Regarding to the request done to IDEAM. From the beginning we have been working together with JICA when through our director it was asked the following up through our Engineer Leonardo Fajardo. The stations require preventive and corrective maintenance. As soon as the agreement is done the information is checked and a professional will be require to run the respective models and adjust the models so something will be done such as: measurements on site for adjusting the curve expenses and creating the alert levels yellow, green, orange etc.. So these types of adjustments will be done on site and IDEAM has topographical equipments for doing this. Last week we explained to Alcaldia of Soacha our staff problem, but we consider it is necessary to have an additional person for this project. Finally, the previous ones are our requirements.

Mr IVAN CALDERON –CLOPAD- We understand IDEAM is the authority and the agreement document was already checked but the budget topic should be clarified if not any misunderstanding could arise. But, after this topic is clarified agreement will be done.

Regarding to the comment of Environment Ministry I can say that Soacha Administration had invested many millions in equipments for firefighters, in relocation, training for communities, and studies that without including JICA Study that could cost more than 54 million pesos. I think we can compare with other CLOPADS that don't give much importance to disasters prevention topics. And in the future we are thinking about a micro seismic zoning, geo-technical and geology studies. Since, there is a lot of interest from all secretaries to strength this process.

Mr. Ryo Matsumaru JICA Study Team – I am very happy to have very good opinions, comments and proposals and I would like to express just two points one is site visits from the officers that are very important to know the site and communities and knowing sites is one of the keys for the sustainability of project so I propose to Mr. Avila and Mr. Ivan to know the site. Another one is institution system she (Doris Suaza-DPAE) proposed that the commitment of Institutions is very important and DPAE and Soacha have special technical information about that will be valuable for Community people. So, we are very happy about having these proposals. This is not last seminar this is just a kick off meeting for guaranteeing the sustainability of early warning monitoring system and thank you for this opportunity.

IVAN CALDERON- Proposed to change date of previous agreement signed by communities on Nov 13th since new major will sign it and he was not elected by that date. So he committed to do such change.

CONCLUSIONS by Mr. Guillermo Avila DPAE Counterpart Coordinator:

The Early warning monitoring system is a very important tool for disasters prevention this tool it is not just made by instruments since as its name says it corresponds to a system and technical instruments play an important role and particularly the communities that could be affected and the institutions that participate. So, it is clear that early warning monitoring systems incorporate so much knowledge about local conditions as rainfall data and deformation data as in the case of landslides and the information of past events. These data should be interpreted and processed for having a meaning in the actions and particularly in the protocols that will be establish for the intervention according to the criteria defined in the early warning monitoring systems and the big interpretation that persons should have regarding these data is important for acting timely and reasonably for taking decisions in a clear way during a possible evacuation is highlighted the co-responsibility in the risk topic such as institutions as for population so there were shown the Early warning monitoring systems for Bogotá and Soacha and their technical and communitarian aspects and the communication between upstream and downstream

The communitarian systems are very important for the satisfactory operation of an Early Warning Monitoring System it is required the institutional follow up for the efficient and continuous operation of these systems.

The automatic systems constitute a complementary tool of big importance and are dual systems the ones considered important that will keep redundancy.

It was said that there are efficient financing mechanisms inside the law associated with the allocation of specific resources for the disasters prevention topics. So in this sense there is a way to finance these systems.

The community expressed the importance of participating in all the early warning monitoring systems and reiterates the following up by institutions.

It is highlighted the work of JICA Study Team it is very important for giving an impulse to Early Warning Monitoring System and community wants to continue having such kind of support.

Closing Speech by JICA Colombia

Ladies and Gentleman in the name of Japan Government, JICA and in my own name is so glad to address you today's afternoon in the place of this seminar about the "Sustainability for the Early Warning Monitoring System for landslides and Floods for Soacha and Bogotá" "Study that ends this month organized by the counterpart entities DPAE and Alcaldia de Soacha and the mission of Japanese experts on charge of its management.

With DPAE, the Government and some Cundinamarca municipalities in JICA exists a cooperation relationship in the topic of disasters prevention from several years ago during we had supported in the topic of training of human Colombian resource and the institutional strengthening through the execution of these development studies with some different resources some of counterparts of with some small donations of equipments. We just heard about the final results of the Pilot Project Study in landslides and Floods. With this small contribution the Japanese town knows all about the tragedies produced by natural disasters such as earthquakes, landslides and floods. And we hope to continue contributing to the construction of a Colombian society more supportive and participative and by the recent earthquakes suffered in Japan we know that technological and technical institutional strengthening is important but also the permanent communication between the different institutions on charge of management disasters and the community to create friendship, reliability and credibility bonds and timely response that with this technological resource received by this study counterparts the ex scholars and the future participants in the general courses about Prevention and Attention of natural disasters we hope that a qualified human resource remains and also an installed capacity that allows DPAE, OPAD and Soacha to give a technical, scientific and social service to communities that will require their services for contributing to the life quality improvement of urban Colombian population. Thank you.

ATTENDANCE LIST (February 1, 2008 – Seminar)

No.	Complete name	Community or Institution	No.	Complete name	Community or Institution
1	Carolina Rogelis	DPAE	41	José Miguel Linares	Defensa Civil
2	Jorge Rosas	DPAE	42	Manuel Herrera	Defensa Civil
3	Dorian Meza	DPAE	43	Elizabeth Ortiz	Defensa Civil
4	Jesús Alberto Soto	DPAE	44	Milady Bello	Defensa Civil
5	Doris Suaza	DPAE	45	Diego Hernández	Defensa Civil
6	Libardo Tinjacá	DPAE	46	Harold Andres Martinez	Defensa Civil
7	Isaura Gómez	DPAE	47	Erika Fernanda Bello	Defensa Civil
8	Alba Olmos	DPAE	48	Milton William Lagos	Policía Soacha
9	Gladys Puerto	DPAE	49	Rosi Acosta Ríos	Policía Soacha
10	Hernán Arenas	DPAE	50	MarioRodriguez	CLOPAD Cundinamarca
11	Juan Fernando Palacio	DPAE	51	Leonardo Fajardo	IDEAM
12	Guillermo Avila	DPAE	52	Francisco Reyes	IDEAM
13	Arturo Camacho	DPAE	53	Laura Salgado	Cruz Roja Bogotá
14	Fernando A. Ospina	DPAE	54	William Tovar	Cruz Roja Bogotá
15	Blanca Lilia Huertas	DPAE	55	Guillermo Torres	Cruz Roja Bogotá
16	Martha Rocha	DPAE	56	Mauricio Toro	Bomberos Bogotá
17	Rosalbina Pérez	INGEOMINAS	57	Derly Martínez	Comunidad Soacha
18	María Claudia Marín	OCHA	58	Blanca	Comunidad Soacha
19	Clara de La Hoz del Real	OCHA	59	Manuel Gamboa	Comunidad Soacha
20	Miguel Lizarazu	Min. de Vivienda	60	Pedro Guzmán	Comunidad Soacha
21	Sandra Rodríguez Luna	Min. de Vivienda	61	Benjamín Ospina	Comunidad Soacha
22	Victor Manuel Moreno	Min. de Vivienda	62	Ana Victoria Pinzón	Comunidad Soacha
23	Martha Palacios	ONU Oficina Refugiados	63	Maria Carmen Muete	Comunidad Soacha
24	Antonio Gutiérrez	Gobernación Cundinamarca	64	Dagoberto Silva	Comunidad Soacha
25	Haydee Matiz	Gobernación Cundinamarca	65	Flor Maria Ramirez	Comunidad Soacha
26	Alfonso Muñoz	Gobernación Cundinamarca	66	Brayan Martinez	Comunidad Soacha
27	Angela Alfonso	Alcaldía de Soacha	67	Agustín González	Comunidad Soacha
28	Ligia Goyeneche Suarez	Alcaldía de Soacha	68	Aníbal Cetina S.	Comunidad Soacha
29	Julián Alvarez	Alcaldía de Soacha	69	Alba Lucía Tamayo	Comunidad Bogotá
30	Sandra Vásquez	Alcaldía de Soacha	70	Ana Reyes	Comunidad Bogotá
31	Consuelo Pérez R.	Alcaldía de Soacha	71	Naofumi TAKASE	JICA Colombia
32	Fabio Forero	Alcaldía de Soacha	72	Shintaro AKIYAMA	JICA Colombia
33	Raúl Riobueno	Depto. Bomberos Soacha	73	Oscar Emilio Angel	JICA Colombia
34	Javier Rico	Depto. Bomberos Soacha	74	Kazunori HAYASHI	JICA Colombia
35	Israel Masmelo	Depto. Bomberos Soacha	75	Edilma Catome	Contraloría
36	Nohora Molina Suárez	CAR	76	Victor Manuel Moreno	Unidad de Parques
37	Mauricio Comba	Cruz Roja Soacha	77	Miguel Angel Palacios	Unidad de Parques
38	Luis Enrique Escandón	Cruz Roja Soacha	78	Yezid Vega	Bomberos Caqueza
39	Richard Ballén	Cruz Roja Soacha	79	Ferney Cubillos	Bomberos Caqueza
40	Franklin Sana Burgos	Cruz Roja Soacha	80	Piedad Sanchez	OPS
40	Esmeralda Valero	Cruz Roja Soacha			