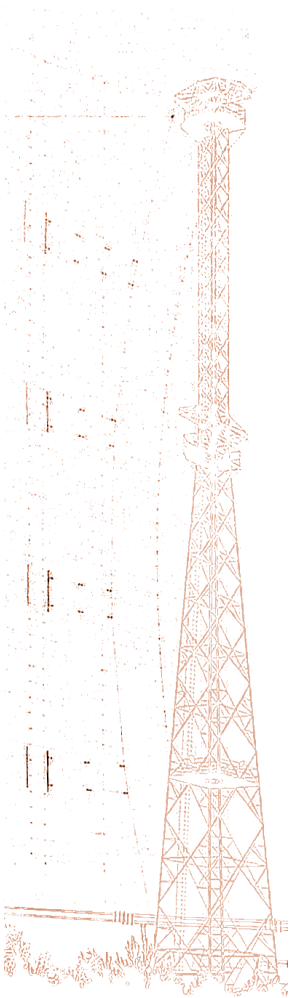# International Radio for Disaster Relief (IRDR)

HFCC

Committed to disaster relief

"There is no singular media or network that represents the most appropriate means of relaying information in disaster-stricken areas; such media should be diverse in nature."

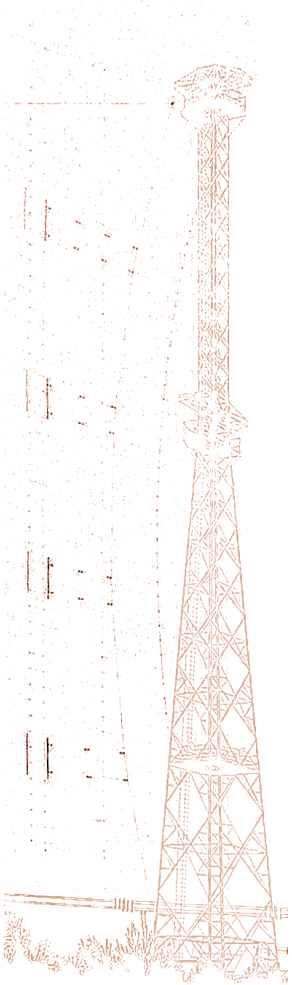*(M.Sugaya MIC-ITU symposium on disaster communications, Sendai, March 2012)*

Life-saving role of shortwave radio

- Recognised since the discovery in 1920s

- Radioamateurs demonstrated its use for disaster risk reduction many times

- The Trial of International Radio for Disaster Relief project during the Jakarta Summit is the very first test of shortwave radio for disaster relief
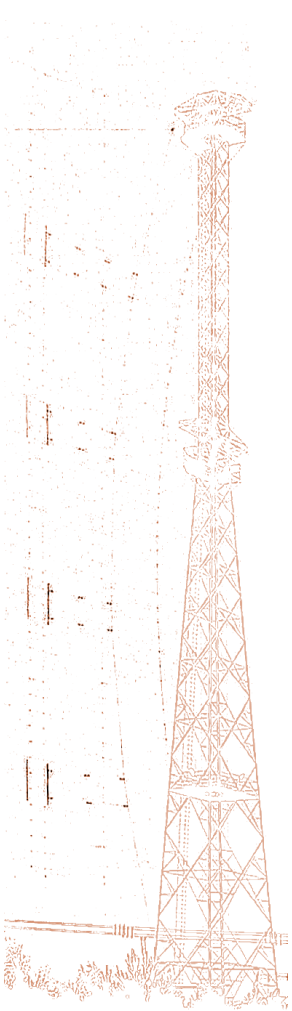
Frequency co-ordination

- Success of any wireless emergency system relies on pre-selected, clear frequency channels

- This is realistic now after Global frequency coordination replaced in the early 1990s shortwave chaos associated with the Cold War

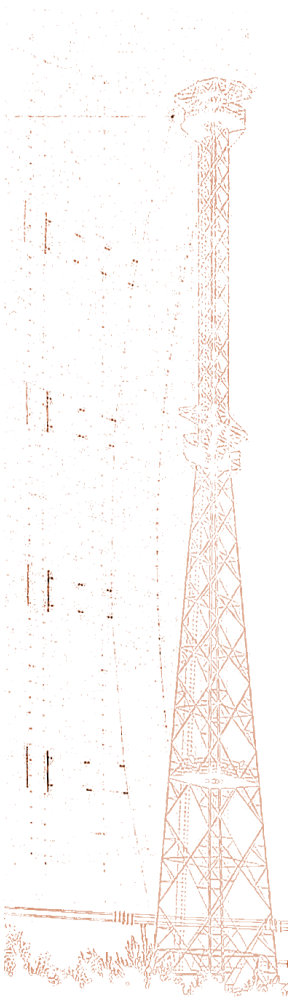- Two channels have been selected for Jakarta Trial

Participants

HFCC

Twelve international broadcasters and shortwave transmission providers have accepted the invitation to the Trial

Committed to disaster relief

| UTC	Frequency	Organisation
0200-0230	21840 kHz	ABC Radio Australia Antenna HRS 4/4/0.5, 329deg 100 kW Shepparton
0230-0530	15650 kHz	BBC/Babcock/DRM LPH 150 deg. Nakhon Sawan, Thailand
0500-0530	21840 kHz	Radio Vatican
0530-0600	15650 kHz	SLBC Sri Lanka Trinkomalee
0600-0700	15650 kHz	First Response Radio/FEBC Philippines
0730-0800	21840 kHz	MGLOB Madagascar 250 kW bearing 085 deg. antenna TM

Participants

HFCC

Twelve international broadcasters and shortwave transmission providers have accepted the invitation to the Trial

Committed to disaster relief

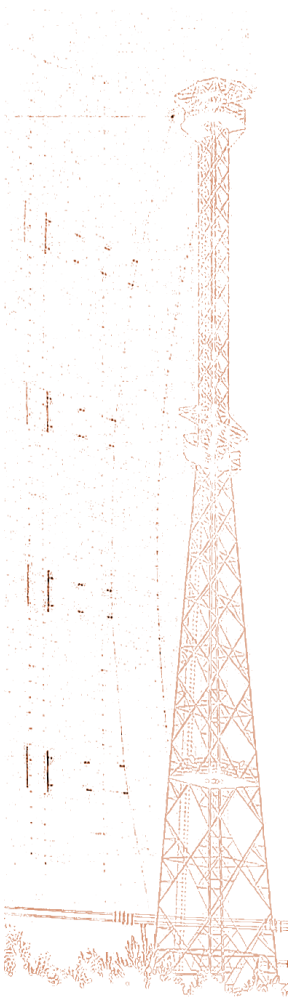| UTC	Frequency	Organisation
0800-0830	15650 kHz	IBB Site: UDO
0830-0900	15650 kHz	NHK WORLD RADIO JAPAN Palau - 270 deg.
0900-0930	15650 kHz	IBB Site: PHT
1000-1030	15650 kHz	All India Radio Bangalore 500 kW 4/4/0.5 at 120 deg
1030-1100	21840 kHz	RTC - China Standard Chinese, site: BEI
1100-1130	15650 kHz	KTWR Guam
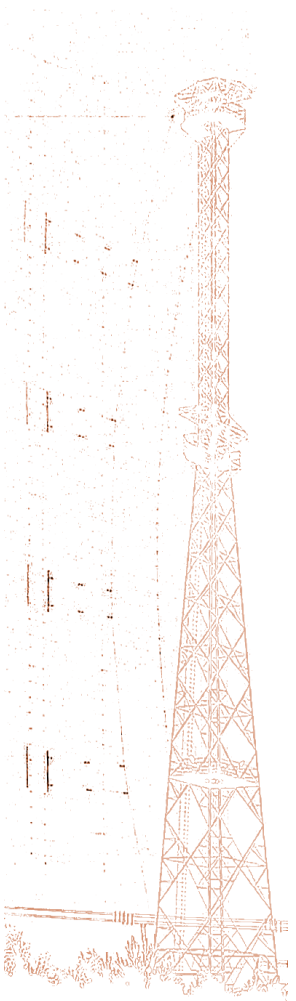
Participants

- Taking part in the Jakarta Trial does not commit any participant to any future action

- This is only an effort to show that shortwave radio has unique properties in disaster situations
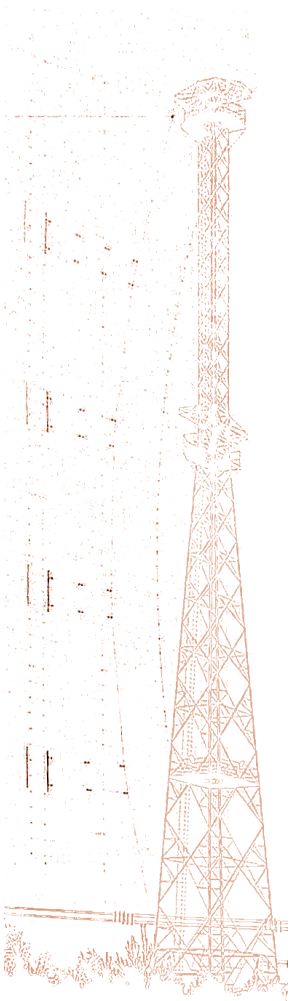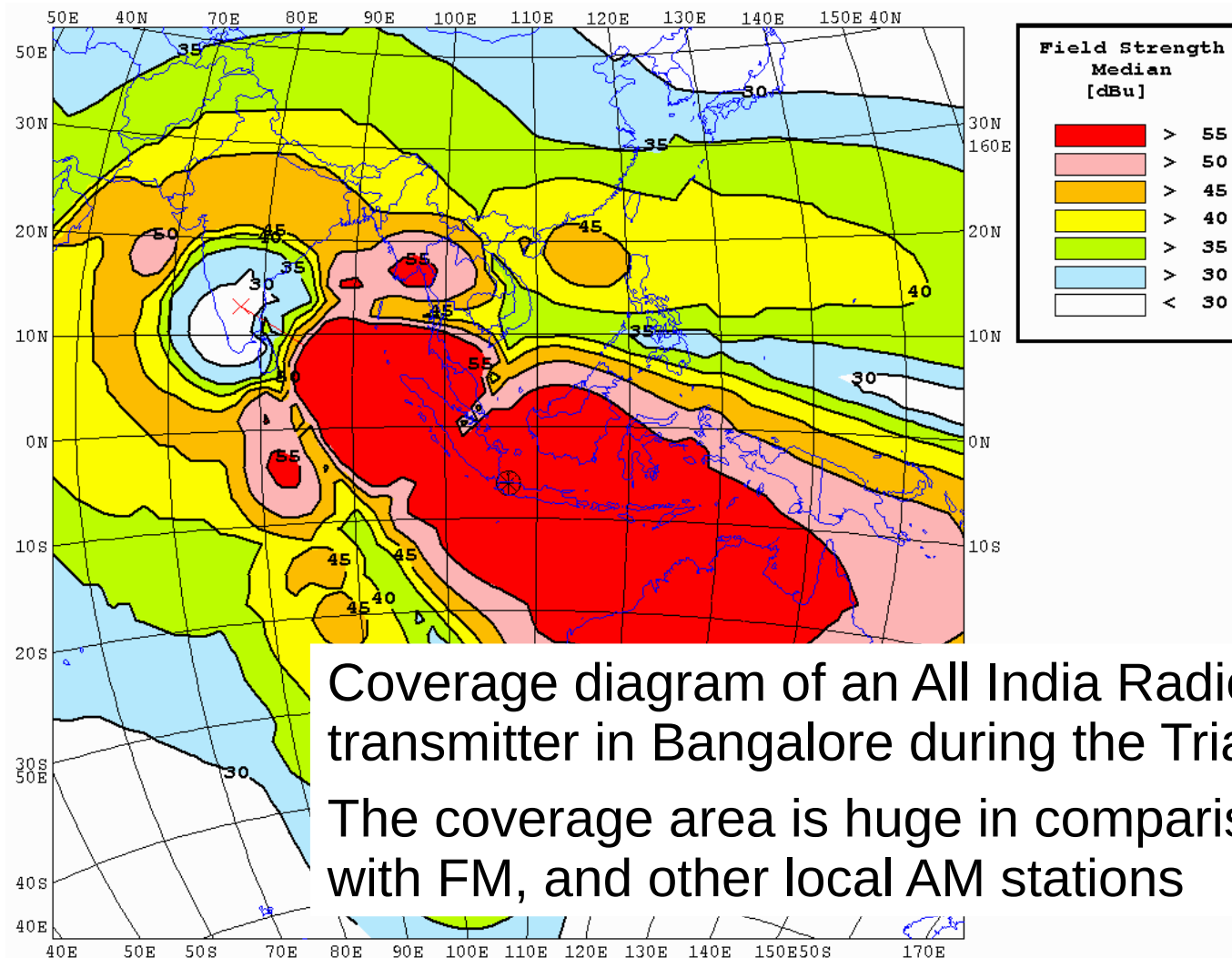
Coverage Area

Committed to disaster relief

Coverage diagram of an All India Radio transmitter in Bangalore during the Trial

The coverage area is huge in comparison with FM, and other local AM stations

Monitoring

- The Quality of reception of all Jakarta Trial programmes is continuously monitored at an IBB Monitoring station Jakarta and also at Singapore

- Monitoring checks are at 10 minute intervals and brief sound example is taken

- Results will be made available to all participants

- Shortwave listeners and DX- hobbyists have been invited to send in reception reports to stations and/or to the HFCC

- The HFCC is going to issue a special QSL - card
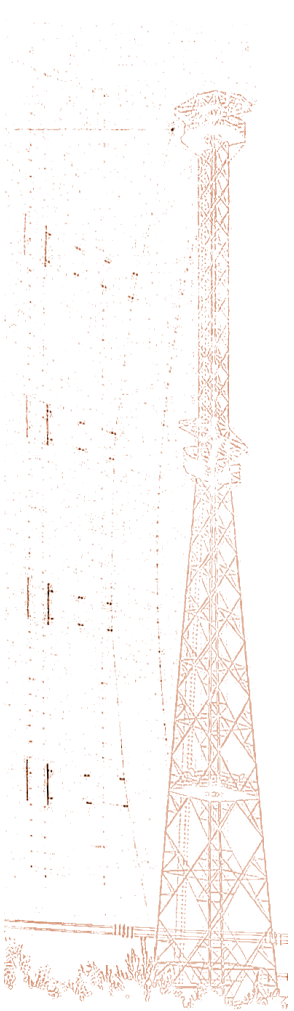
Reception
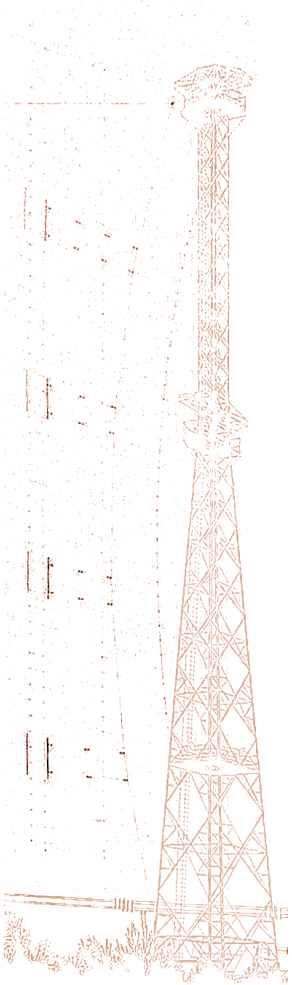## Shortwave technology is absolutely disaster resistant

- **Radio energy travels via reflections from the ionosphere**

- **Transmitters can be hundreds or thousands kilometers away from disaster area**

- **Receivers are light-weight, cheap, can be powered by solar or hand-cranked**

Ionospheric reflection - picture by Sebastian Janke, Creative Commons

Future

- Digital DRM - also on the agenda of this Summit - has an alarm warning functionality. This will increase the value of shortwave in disasters

- The present management/coordination of global shortwave broadcasting has a completely voluntary framework

- The HFCC is ready to provide tools and services also for the world-wide implementation of emergency broadcasting

- There is a certain urgency about it since the on-going cuts of important shortwave installations around the globe could prevent it happening

Thanks

HFCC

Committed to disaster relief

MEDIA SUMMIT ON CLIMATE CHANGE, ICTs & DISASTER RISK REDUCTION

ABU

CC&DRR

- Broadcast Technologies for Emergency Warning
- The Role of the Media
- Increasing Effectiveness of Emergency Broadcasts

4-6 June 2014 Jakarta, Indonesia

The HFCC - International Broadcasting Delivery wants to thank Amal Punchihewa - ABU Director of Technology, Jacqueline Dalton - The BBC Media Action, Arto Mujunen - IBB Monitoring and Mike Adams - First Response Radio for their help in making the Trial happen.

Thank you for your attention! Oldrich Cip, Chairman, HFCC