



Amateur Radio in Malaysia:

Brief history,
contribution to the country
and development of localised amateur radio slang

Salleh H Abdul Rashid
9W2STT

What is Amateur Radio?

- ◆ a radio service - Amateur Radio Service
- ◆ Hobby pertaining to wireless / radio communication
- ◆ Requires amateur radio license
- ◆ Use only allocated frequencies / bands



Why do I need Amateur Radio License?

- ◆ Regulation -
 - CMA 1998 and
 - CMA 2000
- ◆ proof of competence
- ◆ primary function of an Amateur Licence is to authorise a person to:
 1. Self train in radio communications
 2. Communicate with other amateur radio operators
 3. Conduct technical investigations into radio communications and electronics

PENGUNTUKAN RADAS APPARATUS ASSIGNMENT
 Ditakrifkan menurut Akta Komunikasi dan Multimedia 1998
 Issued in accordance with the Communications and Multimedia Act 1998

SYARAT-SYARAT PENGUNTUKAN ASSIGNMENT CONDITIONS

JENIS RADAS TYPE OF APPARATUS	TARIKH TAMAT EXPIRY DATE	NO. PELANGGAN CLIENT NO.	NO. PENGUNTUKAN RADAS APPARATUS ASSIGNMENT NO.
AMATEUR STN (Class B)	23-07-2012	25611	01429224-0089391226091-alam
DIRUNTUKAN KEPADA: ASSIGNED TO:	KATEGORI PERKHIDMATAN SERVICE CATEGORY		
SALLEH HUDDIN BIN ABDUL RASHID 4, JALAN 47Q BANDAR BARU BANGI 43650	AMATEUR		
FREKUENSI PANCARAN (MHz) TRANSMIT FREQUENCY (MHz)	FREKUENSI TERIMA (MHz) RECEIVE FREQUENCY (MHz)	LEBAR JALUR/PANCARAN BANDWIDTH/MISSION	KUASA (kW) POWER (kW)
SYARAT-SYARAT PERUBAHUNGAN YANG DIBENARKAN AUTHORISED COMMUNICATIONS CONDITIONS			

Licence Appendix:

AMATEUR CLASS B

DEVICES AUTHORISED UNDER THIS LICENSE MUST BE OPERATING IN THE FOLLOWING FREQUENCY BAND, THE PEAK ENVELOPED TRANSMITTER OUTPUT POWER AND CLASS OF EMISSION AS MENTIONED BELOW:-

I) FREQUENCY BAND (MHZ) - 28.0 TO 29.7 (AMATEUR, AMATEUR SATELLITE)

Radio Regulations apply)

- 50.0 TO 54.0 (AMATEUR - Footnote 5.167 ITU)
- 144.0 TO 148.0
- 145.8 TO 146.0 (AMATEUR SATELLITE)
- 430.0 TO 440.0

II) MAXIMUM TX POWER LEVEL - 50 WATTS (PEAK ENVELOPED POWER)

III) CLASS OF EMISSION - A3E, F1A, F2A, F3E, J3E, R3E

STATION LOCATION: GEOGRAPHIC CO-ORDINATES: LATITUDE: LONGITUDE: MOBILE/AS PER ADDRESS/PORTABLE

ISYARAT PANGILAN
CALLSIGN: 9W2STT

TARIKH DIKELUARKAN
DATE OF ISSUE: 24-07-2007

Pengerusi Suruhanjaya Komunikasi dan Multimedia Malaysia
 Chairman of the Malaysian Communications and Multimedia Commission



Are there different classes of Amateur Radio License ?

Class B

- an entry point
- Pass RAE
- Min age = 14
- RM24/year
- Max tx power = 50 Watt PEP

Class A

- advanced class;
- Pass CW test
- < 18 years old
- RM36/year
- Tx power:
 - ◆ HF 400 watt PEP
 - ◆ VHF = 50 Watt PEP
 - ◆ UHF = 50
 - ◆ SUHF =



Are there different classes of Amateur Radio License ?

ALLOCATED FREQUENCIES

Class A


Class A License Operating Privilege
(for 9M call sign operators)

Frequency Band (MHz)	Maximum Power Level (watt PEP)	Class of Emission
1.8 - 2.0	25	A1A, A2A, A3E, F1A, F2A, F3E, J3E, R3E
3.5 - 3.9	400	A1A, A2A, A3E, F1A, F2A, F3E, J3E, R3E
7.0 - 7.1	400	A1A, A2A, A3E, F1A, F2A, F3E, J3E, R3E
10.1 - 10.15	400	A1A, A2A, A3E, F1A, F2A, F3E, J3E, R3E
14.0 - 14.35	400	A1A, A2A, A3E, F1A, F2A, F3E, J3E, R3E
18.068 - 18.168	400	A1A, A2A, A3E, F1A, F2A, F3E, J3E, R3E
21.0 - 21.45	400	A1A, A2A, A3E, F1A, F2A, F3E, J3E, R3E
24.89 - 24.99	400	A1A, A2A, A3E, F1A, F2A, F3E, J3E, R3E
28.0 - 29.7	400	A1A, A2A, A3E, F1A, F2A, F3E, J3E, R3E
50.0 - 54.0	400	A1A, A2A, A3E, F1A, F2A, F3E, J3E, R3E
144.0 - 146.0	400	A1A, A2A, A3E, F1A, F2A, F3E, J3E, R3E
146.0 - 148.0	400	A1A, A2A, A3E, F1A, F2A, F3E, J3E, R3E
430.0 - 440.0	100	A1A, A2A, A3E, F1A, F2A, F3E, J3E, R3E
1,240 - 1,300	100	A1A, A2A, A3E, A3C, C3F, F1A, F2A, F3E, J3E, R3E
2,300 - 2,450	50	A1A, A2A, A3E, A3C, C3F, F1A, F2A, F3E, J3E, R3E
3,300 - 3,500	50	A1A, A2A, A3E, A3C, C3F, F1A, F2A, F3E, J3E, R3E
5,650 - 5,850	50	A1A, A2A, A3E, A3C, C3F, F1A, F2A, F3E, J3E, R3E
10,000 - 10,500	50	A1A, A2A, A3E, A3C, C3F, F1A, F2A, F3E, J3E, R3E
24,000 - 24,250	50	A1A, A2A, A3E, A3C, C3F, F1A, F2A, F3E, J3E, R3E
47,000 - 47,200	50	A1A, A2A, A3E, A3C, C3F, F1A, F2A, F3E, J3E, R3E
75.500 - 81,000	50	A1A, A2A, A3E, A3C, C3F, F1A, F2A, F3E, J3E, R3E
119,800 - 120,020	25	A1A, A2A, A3E, A3C, C3F, F1A, F2A, F3E, J3E, R3E
142,000 - 144,000	25	A1A, A2A, A3E, A3C, C3F, F1A, F2A, F3E, J3E, R3E
144,000 - 149,000	25	A1A, A2A, A3E, A3C, C3F, F1A, F2A, F3E, J3E, R3E
244,000 - 248,000	25	A1A, A2A, A3E, A3C, C3F, F1A, F2A, F3E, J3E, R3E
248,000 - 250,000	25	A1A, A2A, A3E, A3C, C3F, F1A, F2A, F3E, J3E, R3E

Class B



How is Amateur Radio Service different from other radio services?

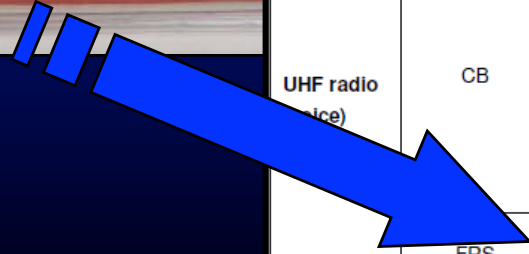
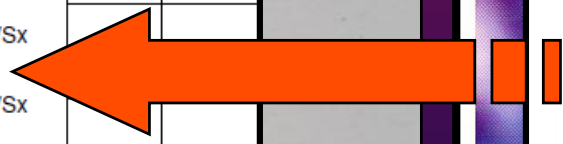
- ◆ What is meant by other radio services?
- ◆ Differences
 - Freq allocation 
 - ITU recognition
 - Pecunary
 - Priveledges
 - Callsign
 - lingo



FRS : in Malaysia & USA

For Fixed & Mobile Radio Services

Radio Service	Channel	Operating frequency (MHz)	Max Transmitter Output Power	
			(ERP) (W)	(EIRP) (W)
VHF radio (voice)	12.5/25	137.0125 – 139.4000 } Dx	5	-
		142.6000 – 144.0000 } Sx	25	-
		141.0000 – 142.0000 } Sx	50	-
UHF radio (voice)	12.5/25	443.0125 – 444.9875 } Dx	5	-
		448.0125 – 449.9875 } Dx/Sx	5	-
		456.5250 – 456.9750 } Dx/Sx	5	-
		466.5250 – 466.9750 } Dx/Sx	5	-
		457.5250 – 457.9750 } Dx/Sx	5	-
Base Station/ Repeater		467.5250 – 467.9750 } Dx	50	-
		458.0000 – 459.9750 } Dx	50	-
		468.0000 – 469.9750 } Dx	50	-



Radio Service	Channel	Operating frequency (MHz)	Channel Spacing (kHz)	(ERP) (W)	(EIRP) (W)
UHF radio (voice)	CB	26.9650 – 27.4050 – Sx	10	4	12
		477.0125 – 477.5250 – Sx	12.5	0.5	0.5
		477.5250 – 477.9875 – Sx	12.5	0.5	0.5

License Free



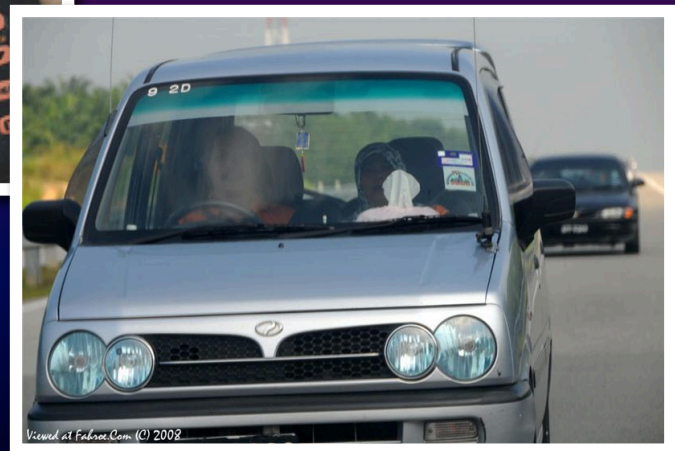
What can I do as a licensed ham?

- ◆ Talk with your friend (QSO)
- ◆ Competition
- ◆ Field day
- ◆ Public events / Sports
- ◆ Neighborhood watch
- ◆ Recreation
- ◆ Do Experiments ... and ...



What can I do as a licensed ham?

Own and bring with you amateur radio equipment wherever you go



What can I do as a licensed ham?

Take part in Field Day, Contest & Training



Field days and radio contests

- are great fun and help keep radio amateurs prepared for emergencies.
- Jamboree on the air is a field day that involves Scouting world wide



What can I do as a licensed ham? Communicate with the ISS

NASA National Aeronautics and Space Administration
Amateur Radio on the International Space Station (ARISS)



Voice



Picture (SSTV)



What can I do as a licensed ham?

Communicate with the Space Station

Recent activity

```
00:00:09:22 : RSOISS-4]CQ,SGATE,qAR,9W2RUT-1:]ARRISS - International Space Sta
00:00:09:54 : 9W2RUT]CQ,RSOISS-4*,qAR,9W2RUT-1:Happy 52th Independence Day Me
00:00:10:18 : 9W2RUT]CQ,RSOISS-4*,qAR,9W2RUT-1:=0313.41N/10137.21E`Ruth Oper
(UISS52)
00:00:10:21 : 9W2YON]APRS,RSOISS-4*,qAR,9W2RUT-1:=0605.42N/10214.59E-This is
00:00:56:59 : YV5MM-4]APRS,RSOISS-4*,SGATE,WIDE3-3,qAR,YV5DSL::SAT :]Hello Jo
00:00:58:00 : YV5MM-4]APRS,RSOISS-4*,SGATE,WIDE3-3,qAR,YV5DSL::Heard :YV5MM-2
00:00:59:00 : YV5MM-4]APRS,RSOISS-4*,SGATE,WIDE3-3,qAR,YV5MM-2:=0925.53N/0642
(UISS52)
00:00:59:23 : RSOISS-4]CQ,SGATE,qAR,YV5MM-2:]ARRISS - International Space Sta
00:00:59:30 : YV5MM-4]APRS,RSOISS-4*,SGATE,WIDE3-3,qAR,YV5DSL::Heard :YV5MM-2
00:01:04:01 : CO6XY]CQ,RSOISS-4*,qAR,XE1KK-1:=2155.49N/07926.38W-73' Via Sate
00:01:04:54 : NOAN-6]APRS,RSOISS-4*,qAR,NOAN:=4205.48N/09400.76W573' Via Sat
00:01:05:22 : RSOISS-4]CQ,SGATE,qAR,XE1KK-1:]ARRISS - International Space Sta
00:01:05:34 : XE2ZSJ]XE2M2S,RSOISS-4*,ARRISS,DL95UQ,JIMMY,qAS,K8YSE-3:]DL95uq
00:01:06:13 : XE2ZSJ]XE2M2S,RSOISS-4*,ARRISS,DL95UQ,JIMMY,qAS,K8YSE-3:]DL95uq
00:01:06:23 : NOAN-6]APRS,RSOISS-4*,qAR,NOAN:=4205.48N/09400.76W573' Via Sat
00:01:06:55 : WA0VSE-3:]WA0VSE-3:John's
00:01:07:00 : NOAN-6]DL95uq /-
00:01:07:00 : wind generator pu
00:01:07:00 : tional Space Statid
00:01:07:00 : ]DL95uq /-
00:01:07:00 : ar on satpc32
00:01:07:00 : g john
00:01:07:00 : .....
00:01:07:00 : LG:]DL95uq /-
00:01:07:00 : se Station (BB5/XPRS On)
00:01:07:00 : Via Sat (UISS52)
```

**Satellite Hacking
Please ...**

Thousand Apologies

1. Team from JB
2. Time constraint
3. Wrong time



Using APRS to access the ISS' BB



What can I do as a licensed ham?
Participate in Emergency / Disaster
Relief Operations



What can I do as a licensed ham?

- ◆ Bring your rig to other countries
- ◆ Operate ham station in other countries

Ofcom
OFFICE OF COMMUNICATIONS
Ofcom Licensing Centre
Riverside House
2a Southwark Bridge Road
London, SE1 9HA
UK
Tel: +44 (0)20 7981 3131
Fax: +44 (0)20 7981 3333

Amateur Radio Licence
Licence de radio amateur
Amateurfunklizenz

United Kingdom of Great Britain & Northern Ireland, the Channel Islands & the Isle of Man
Royaume-Uni de Grande Bretagne et d'Irlande du Nord, les îles Anglo-Normandes et l'île de Man
Vereinigtes Königreich von Großbritannien und Nordirland, die Kanalinseln und die Isle of Man

Wireless Telegraphy Act 2006
Législation sur la télégraphie sans fil 2006
Gesetz über drahtlose Telegrafie 2006

Section 1
Licence details
Renseignements sur la licence
Lizenzdetails

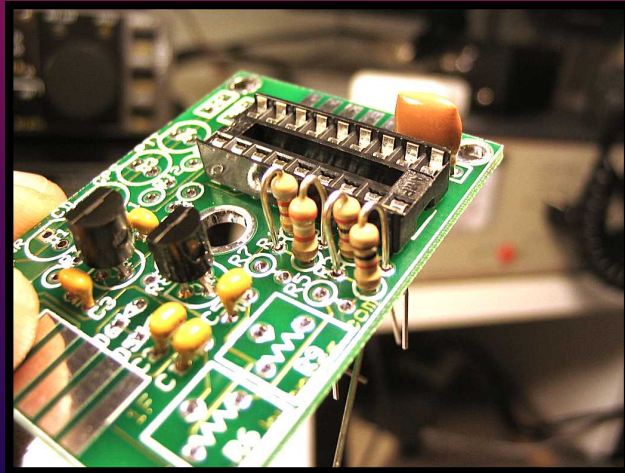
Licence class Classe de licence Lizenzklasse	Amateur Full (Reciprocal) Radio Licence
CEPT equivalent licence class Classe de licence CEPT équivalente Entsprechende CEPT-Klasse	1
Licensee's name Nom du titulaire Name des Lizenzinhabers	Mr Salleh Abdul Rashid
Callsign Indicatif d'appel Rufzeichen	MOGJE
Mailing address Adresse postale Postanschrift	4, Jalan 4/7Q, Bandar Baru Bangi, 43850 Malaysia
Main Station Address Adresse de station principale Hauptstationsanschrift	71 Hinchley Road, MANCHESTER, M9 7FG, United Kingdom
Issue date Date de délivrance Ausstellungsdatum	03/06/2008
First issue date Première date de délivrance Erstaussstellungsdatum	03/06/2008
Licence number Numéro de licence Lizenznummer	1-57196563

This Licence, issued by the Office of Communications ("Ofcom") on the issue date specified above, authorises the holder named above ("the Licensee") to establish and use stations or install or use radio transmitting and receiving apparatus for wireless telegraphy (the "Radio Equipment") in accordance with the terms, conditions and limitations set out in Section 2 of this Licence.

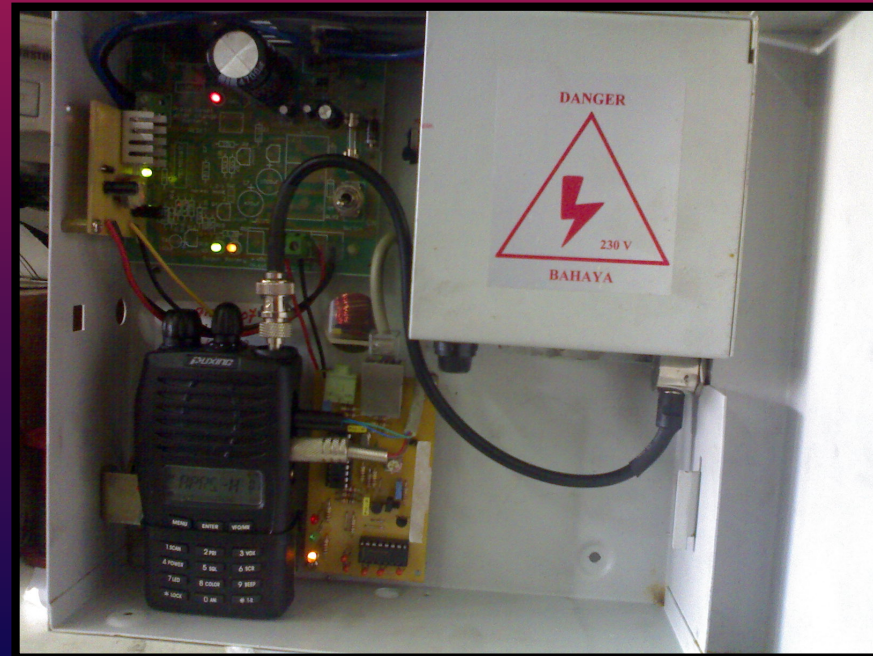
Page 1 of 23



What can I do as a licensed ham?
Build your own equipment



Tiny Tracker

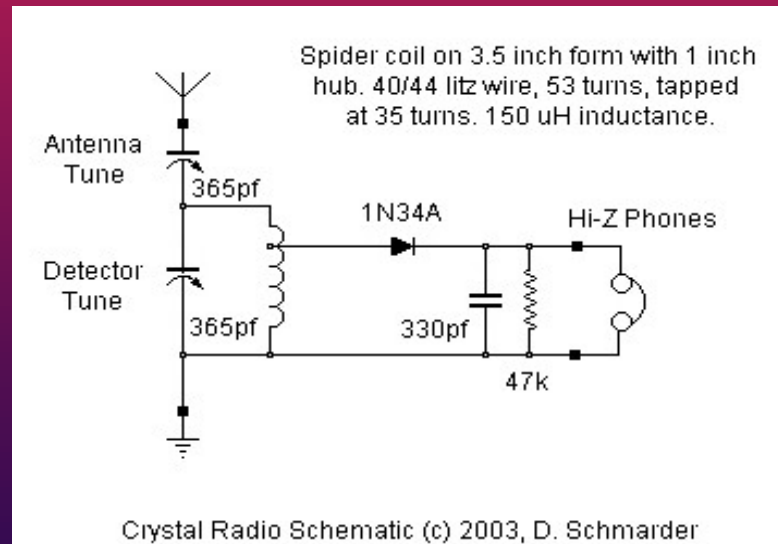


A Digipeater



What can I do as a licensed ham?

Build technical circuits



What can I do as a licensed ham?

Set up Radio Transmitters to Talk and Listen to the World



What can I do as a licensed ham?
Build & Erect Antennas



What can I do as a licensed ham?

Setup & use Amateur TV station

- ◆ SSTV
- ◆ Slow
- ◆ Send / receive Pictures
- ◆ Use VHF / UHF
- ◆ FSTV (ATV)
- ◆ Fast
- ◆ Send / receive video broadcast
- ◆ SUHF / Microwave
- ◆ 1.2GHz , 2.4GHz , 5.7GHz , 10GHz , 24GHz
- ◆ Analog & DVBs



What can I do as a licensed ham?

Communicate Using Satellites

- ◆ Radio Amateurs world wide have designed and developed satellites, eg A0-51.
- ◆ These have been launched and are free for all amateurs to use



Chasing A0-51



What can I do as a licensed ham?

Use radio for other hobbies



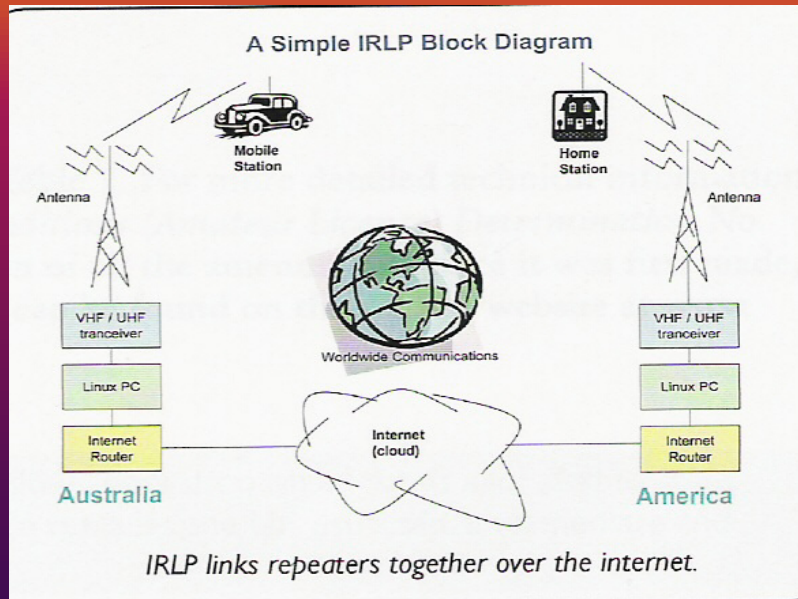
Storm chasers
SKYWARN

- ◆ Many radio amateurs are interested in photography and mix hobbies, taking photos of natural events
- ◆ Some amateurs love outdoor life and recreational activities

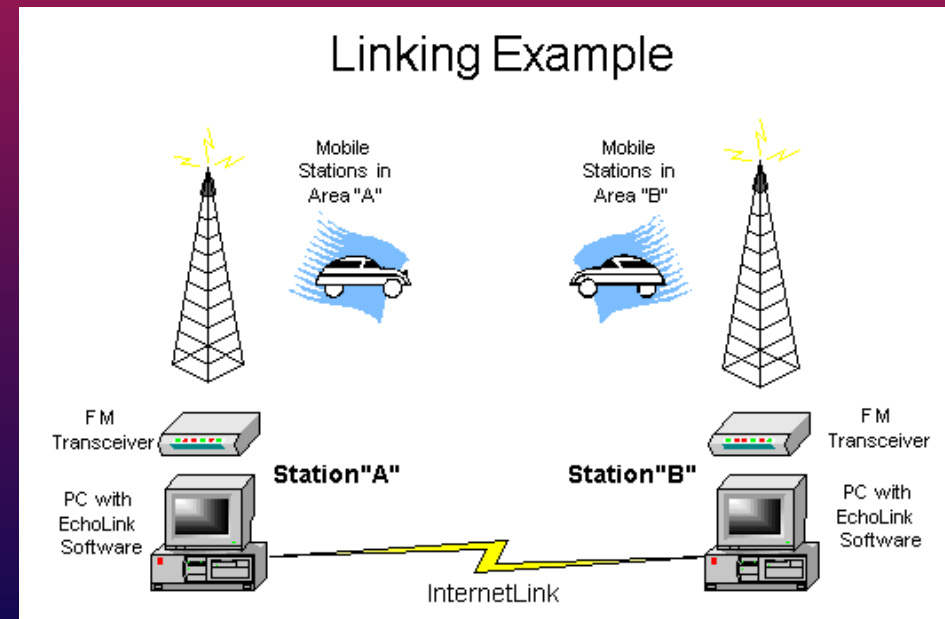


What can I do as a licensed ham?

Link Radios Over the Internet



IRLP – Linux PCs



Echolink – Windows PCs



What can I do as a licensed ham? Vehicle Tracking



Using APRS

Watch that speed

Min System Requirement
(tracker)

What can I do as a licensed ham?

“Hacking” messages in digital mode

- ◆ What is the message in this sound clip?

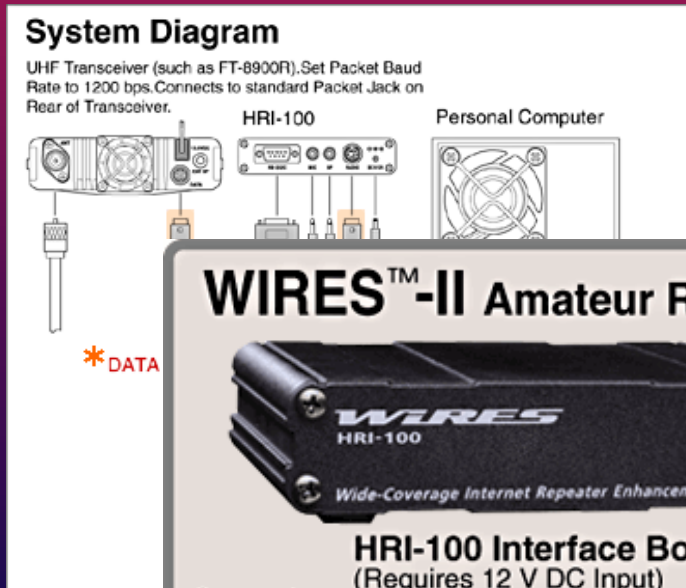


What can I do as a licensed ham?

Internet Using Radio

◆ Using WIRES internet Linking

◆ Using D-Star



WIRES™ -II Amateur Radio Internet Linking Kit



HRI-100 Interface Box (Requires 12 V DC Input)

Connections:

DC In: 12 V \pm 10 %, negative ground, 1 A max.
 SP Jack: Input from Sound Card, 600 mV rms @ 600 Ω
 MIC Jack: Output to Sound Card, 500 mV p-p @ 600 Ω
 Radio Jack: TX AF IN 500 mV rms @ 600 Ω
 DISC OUT 500 mV rms @ 600 Ω
 PTT (Positive 5 V DC)
 Dimensions (W x H x D): 4.4" x 1.0" x 5.3" (111 x 25.4 x 133 mm)
 Weight: 0.66 lb (300 g)

Components

Power Cable
 Data Cable (RS-232C DB-9 Plug)
 Data Cable (8pin-6pin Mini-DIN Plug)
 Audio Cable (3.5 mm Plug) (2)
 WIRES™-II User/Server Agreement

• Optional Accessory:
 NC-72B/C AC Adapter
 (B for 117V C for 220V)





Contribution to the country:

Amateur Radio in Emergency & Disaster Relief Works

Disasters in Malaysia

NATURAL DISASTERS

- ◆ Severe flood
- ◆ Landslide
- ◆ Mudslide
- ◆ Tropical storm, eg Greg

MAN MADE DISASTER

- ◆ Building Collapse
- ◆ Fire Explosion
- ◆ Plane crash (rare)



Severe Flood

- ◆ 2 Monsoon regimes
 - Southwest - drier
 - Northeast - heavy rain
- ◆ Flooding - unpredictable
 - 1920s until today
 - 1970 - KL submerged
 - 2006-07 Johor
 - 2007-08 Pahang



Flood In Johor (Dec. 2006 – Feb. 2007)



Segamat, Johor, Jan 13: Flood victims can only look at the impassable stretch of Jalan Medoi, at KM6 of Jalan Segamat. NST pix by Abd Rahim Rahmat.



Kota Tinggi, Johor, Jan 14: Residents of Taman Muhibbah surveying the situation in their area using a raft made of pieces of planks and empty containers. NST pix by Shahrul M. Zain.



Batu Pahat, Johor, Jan 14: Newly weds Rita Paikuni and Zulham Jonit being taken on a boat for their bersanding ceremony to be held at the flood relief centre at SK parit Bingan. NST pix by Amran Hamid.



Kota Tinggi, Johor, Jan 14: Evacuees at the Sekolah Agama Taman Kota Jaya flood relief centre had to be relocated to another centre as floodwaters begin to rise at the school. NST pix by Zain Ahmed.



Kota Tinggi, Johor, Jan 14: The half-visible bridge over Sungai Johor in the middle of the town leads to the Kota Tinggi Hospital. NST pix Ahmad Bahri Mardi.



Batu Pahat, Johor, Jan 14: Wardina Shamin Miswan seems to be having fun playing in the floodwaters near her home in Kampung Parit Bingan. NST pix by Amran Hamid.



Flood in Pahang 2007-08

MARES to the rescue



Bukit Antarabangsa Landslide – Dec 2008

MARES to the Rescue



Bukit Antarabangsa Landslide - 2009

MARES to the Rescue



Bukit Antarabangsa Landslide - 2009

MARES to the Rescue



Bukit Antarabangsa Landslide - 2009

MARES to the Rescue



Search & Rescue – May 2009 Building Collapse



Search & Rescue – Sept 2009

Lost Trekker





Localised Amateur Radio Slang

Development of Slang

- ◆ Group membership
 - Sense of identity
 - Sense of belonging
- ◆ New technology
 - new knowledge
 - New concepts
- ◆ Language problem



Sources of Ham Jargons

- ◆ Operating procedures, eg
callsign,
- ◆ Q-Codes
- ◆ Phonetic Alphabet
- ◆ Kit & software, eg. tnc, tinytrack,
tracker, digipeater
- ◆ Antenna design, eg. G5RV, Moxon
- ◆ Other sources
 - Electronics, eg. harmonics,
fundamentals, etc.
 - Electricity
 - Brand names
 - ◆ Belden, Hansen, Diamond, Cushcraft,
Comet
- ◆ M0GJE, 9M2SQL, N3RO, VK3MY,
etc.
- ◆ What's your call again?
- ◆ What's the last three of your call?
- ◆ What's your operating condition?



Sources of Ham Jargons

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◆ Example of Q-Codes

- QST
- QSY
- QRO
- QSB
- QRT

Example of Morse Codes

- YL
- Xyl
- 73
- 88



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 - Electricity
 - Brand names
 - ◆ Belden, Hansen, Diamond, Cushcraft, Comet
- ◆ Example of Phonetic Alphabet
 - A = alpha
 - B = bravo
 - C = charlie
 - D = delta
 - E = echo
 - F = foxtrot
 - G = golf
 - H = hotel
 - K = kilo
 - M = mike



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fundamentals, etc.
 - Electricity
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 - ◆ Belden, Hansen, Diamond, Cushcraft,
Comet
- ◆ Example of kit & software
 - Byonics
 - Tinytracker
 - Igate
 - digipeater



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- ◆ Example - Antenna
 - 5/8
 - 1/2 wave
 - 1/4 wave
 - G5RV
 - Vertical
 - Yagii
 - Slimjim
 - Moxon



Sources of Ham Jargons

- ◆ Operating procedures, eg
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fundamentals, etc.
 - Electricity
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 - ◆ Belden, Hansen, Diamond, Cushcraft,
Comet
- ◆ Example - Electronics
 - Rf
 - Harmonics
 - fundamental



Sources of Ham Jargons

- ◆ Operating procedures, eg
callsign,
- ◆ Q-Codes & Morse
- ◆ Phonetic Alphabet
- ◆ Kit & software, eg. tnc, tinytrack,
tracker, digipeater
- ◆ Antenna (design), eg. G5RV, Moxon
- ◆ Other sources
 - Electronics, eg. harmonics,
fundamentals, etc.
 - Electricity
 - Brand names
 - ◆ Belden, Hansen, Diamond, Cushcraft,
Comet
- ◆ Example - brand names
 - Belden
 - Hansen
 - Diamond
 - Cushcraft



Localized Slang

- ◆ QTH R
- ◆ QTH Base
- ◆ Oscar Tango Mike
- ◆ Tango Tango
- ◆ Salam Contact Perdana
- ◆ Menembak
- ◆ Mendarat
- ◆ Loceng Terbang
- ◆ Chelopi, Cherokee, Jelopi
- ◆ Jalur Panjang
- ◆ Round table
- ◆ Nyam-nyam
- ◆ Kotak hitam
- ◆ Terimain anda
- ◆ Salam kontak kenal
- ◆ Budak kecil
- ◆ Kehabisan Susu
- ◆ Jalur komersial
- ◆ Jalur panjang
- ◆ Ada lima-lima
- ◆ Sierra mike sierra
- ◆ Berpasir
- ◆ Hashy
- ◆ Audio check
- ◆ Audio ada hashy sikit.



Slang based on Q-codes & CW

- ◆ QTH = location
- ◆ QTHR
 - R = Rumah ('House')
- ◆ QTH Base
 - QSY to Kilo Lima
- ◆ QSY - move to ?? freq



Slang based on Electronics

- ◆ Fundamental = frequency
- ◆ Harmonics = unwanted frequency
- ◆ Fundamental = mom and dad
- ◆ Fundamental = children



Slang based on metaphor

- ◆ Transmit
 - ◆ Menembak (“to shoot”)
Saya menembak ke repeater dengan 5 Whiskey.
I am shooting at the repeater with 5 Whiskey.
- ◆ License
 - ◆ Sayap (“wings”)
Dia dah dapat lebar.
He just got his Class A license.
- ◆ Work on different frequencies
 - ◆ Terbang (“to fly”)
Dia dah boleh terbang jauh.
He can now work on _____ bands / frequencies



Slang = borrowed expressions

- ◆ Receive you 5 and 9
- ◆ Terimain anda 5-9
- ◆ *Terimain* = colloq. Indonesian



Slang as a result of language prof problem

- ◆ Jalopy = car
- ◆ Chelopy
- ◆ Cherokee
- ◆ Saltmine = office / work
- ◆ Shop mine
- ◆ Syok mine
- ◆ Chok mine



Summary

- ◆ Slang shows social group membership
- ◆ Different sources of ham slang
- ◆ Localized ham slangs are unique;
 - Language proficiency
 - Linguistic creativity
 - borrowings



What frequency is for ham use?

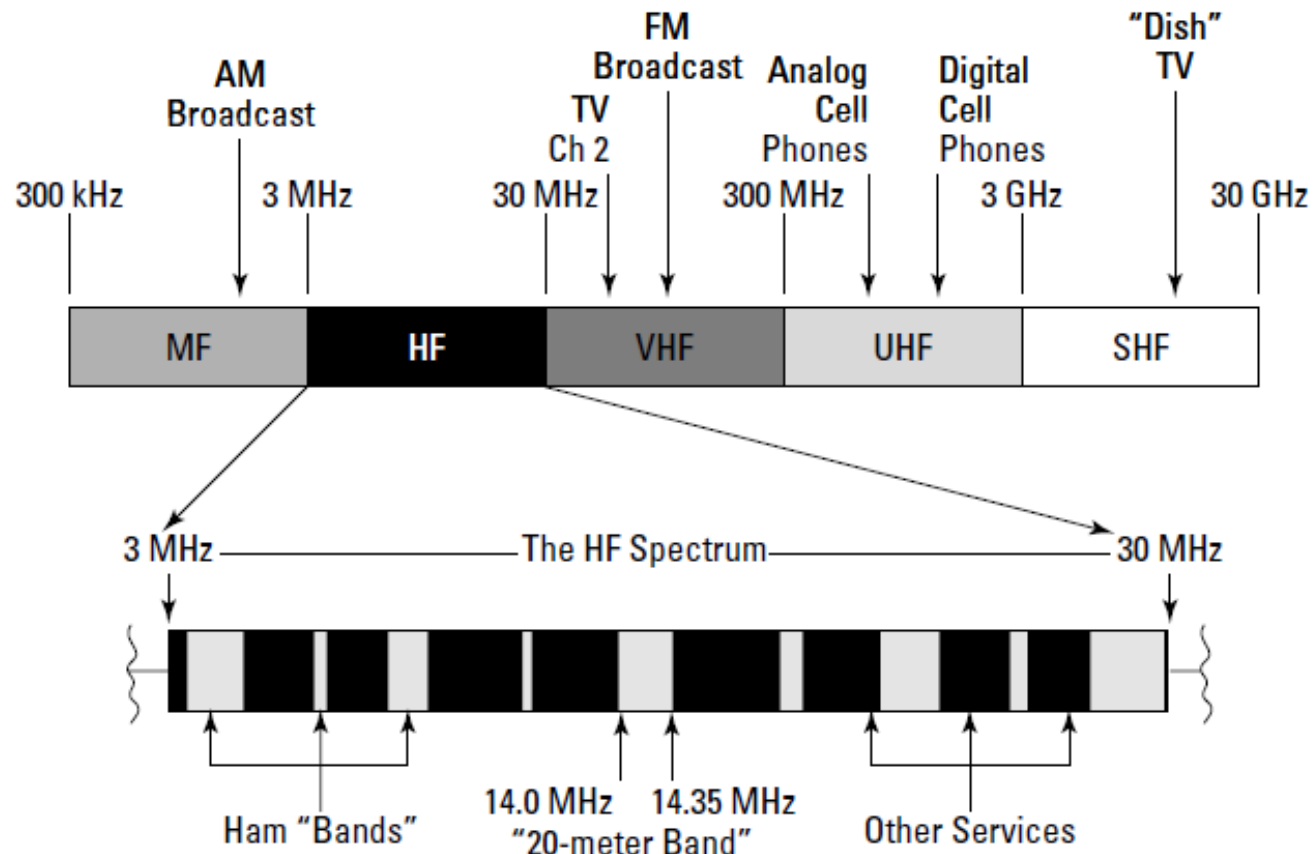
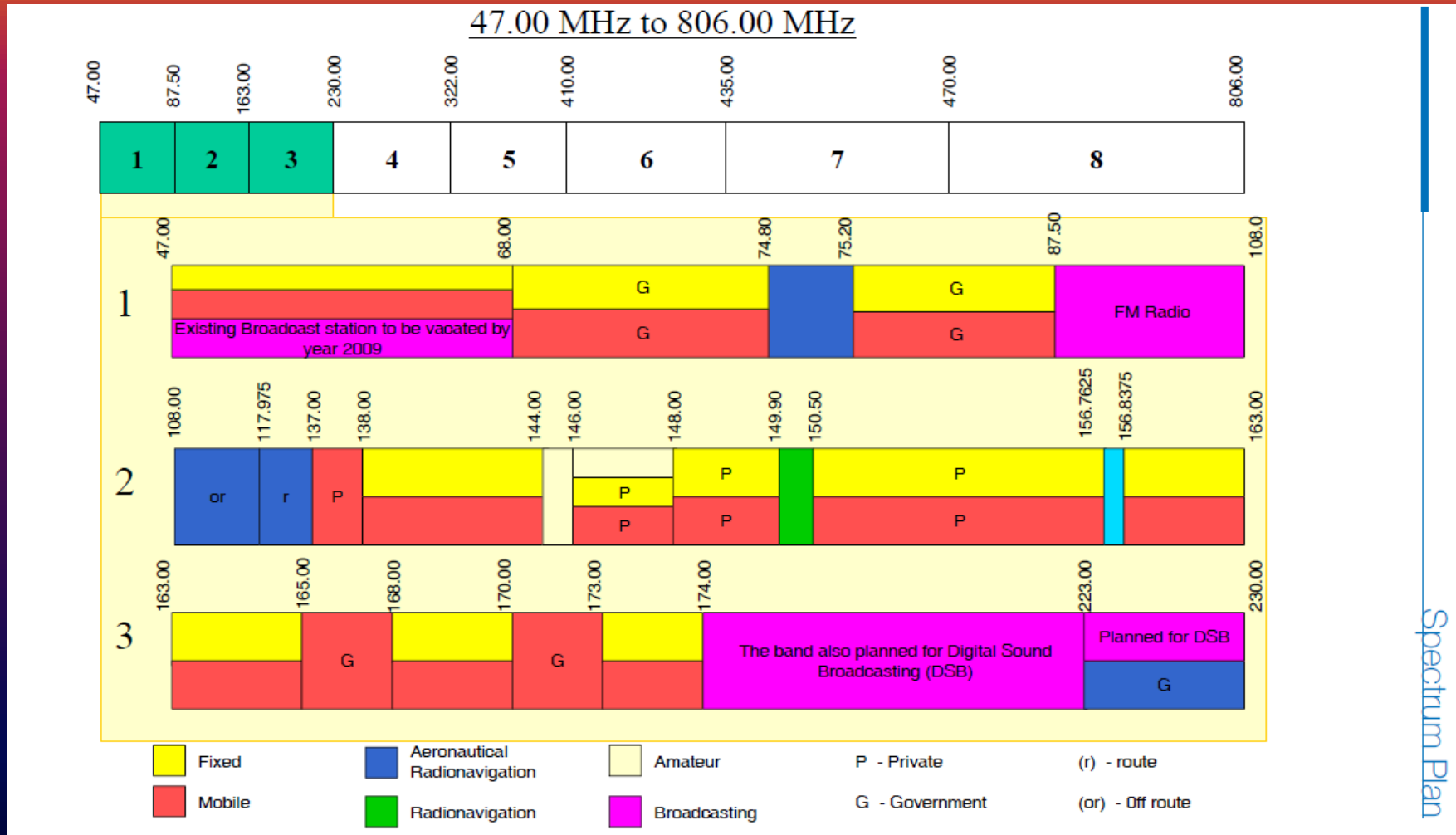


Figure 4-2: Hams are allocated ranges of frequencies across the radio spectrum.



Adapted from Wiley 2004 "Ham Radio for Dummies" pg 54

Example: Radio Services – VHF band



Regions

