

HF SSB

Macros need 1-2-3 R2.3 or later.

Choose "Left" or "Right" RANGE to make changes.

Add new stations after the last line. To delete one, copy the last entry (90,000.0 zz or zz 90,000.0) onto it. To amend, just edit the cell(s) concerned. Sort and save before switching ranges.

To sort and save, hit Alt-L or Alt-R, depending on the RANGE used.

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AREA/SERVICE	AREA/SERVICE	FREQUENCY
Scheveningen Coast D	Aer Lingus	5,532.0
Scheveningen Coast F	Aer Lingus	21,952.0
Scheveningen Coast B	Aerolineas Argentinas	13,327.0
Scheveningen Coast I	AFI NP	11,330.0
Scheveningen Ship C	AFI-1	3,452.0
Scheveningen Ship I	AFI-1	6,535.0
Scheveningen Ship I	AFI-1	6,673.0
Scheveningen Ship I	AFI-1 SAT-1/2	8,861.0
Scheveningen Ship I	AFI-1 SAT-1/2	13,357.0
Scheveningen Ship B	AFI-1 SAT-1/2	17,955.0
Scheveningen Ship D	AFI-2	3,419.0
USCG Internal	AFI-2	13,273.0
Scheveningen Ship F	AFI-2	17,961.0
Marine Calling/Distress	AFI-2 AFI-2	8,894.0
USCG Air/Ground	AFI-2 CWP-1/2 AFI-2	5,652.0
DOE	AFI-3	3,467.0
Gander	AFI-3	6,574.0
Corps of Engineers	AFI-3	8,870.0
Corps of Engineers	AFI-3	11,300.0
Corps of Engineers	AFI-3	17,961.0
Corps of Engineers	AFI-3 EUR-A MID-2	13,288.0
Corps of Engineers	AFI-3 MID-2	5,658.0
USCG	AFI-3 MID-2 SP-6/7	3,467.0
Civil Air Patrol	AFI-4	2,878.0
Civil Air Patrol	AFI-4	5,493.0
RAF Martelo Net	AFI-4	6,559.0
WWV	AFI-4	8,873.0
Scheveningen Ship A Call	AFI-4	8,888.0
RAF Strike Command	AFI-4	8,903.0
Scheveningen Coast C	AFI-4	13,280.0
Corps of Engineers	AFI-4	13,294.0
Corps of Engineers	AFI-4	17,961.0
NMFS, KAC	AFI-4 W-CAR	6,586.0
DOE	AFI-5	4,657.0
Intership Safety	AFI-5 SP-9	3,425.0

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Alaska	Air France	10,093.0
USCG w/ships, public	Air France	21,940.0
USCG 7th Dist	Air/Ground Common	6,723.0
USCG Group Moriches	Air/Ground Common	8,771.0
Harbour Control	Air/sea SAR worldwide	5,680.0
US Navy Harbour	Alaska	2,648.0
Intership Safety	Alaska	4,645.0
CCG Halifax Coast	Alaska	4,947.5
Intership Safety	Alaska	5,122.5
DEA	Alaska	5,310.0
US Customs Channel XA	Alaska	5,887.5
Scheveningen Coast A Call	Alaska Emergency	5,167.5
Harbour Control	Alitalia	5,532.0
Civ Av S Atl	Alitalia	21,952.0
Civ Av E Afr	American Airlines	13,957.0
SAT-1/2	American Red Cross	3,801.5
Civ Av Pac	American Red Cross	13,998.5
CEP-5	American Red Cross	14,270.0
Domestic AK	American Red Cross	20,993.5
AFI-4	Andrews, CROWN, AF-1	16,032.0
Offshore Drilling	ATL Fleet Aircraft	6,693.0
E-CAR	ATL Fleet Aircraft	23,224.0
NAT-B/C	ATL Fleet Ships	5,718.0
Domestic AK	ATL Fleet Ships	8,779.0
CWP-1	ATL Fleet Ships	15,021.0
NP-4	ATL Fleet Ships	15,051.0
SAT	ATL Fleet Ships	15,057.0
NW/SW-SAM MID-3 SAT-2	ATL Fleet Ships	22,687.0
Civ Av ME	ATL Fleet Ships, A/C	6,708.0
Domestic AK	ATL Fleet Ships, A/C	13,172.0
NAT-B/C	ATL Fleet Tactical	15,067.0
Civ Av SE Asia	ATL Flight Safety	8,972.0
NAT-D	Atlanta Flight Support	8,921.0
WX Anchorage	Atlanta Flight Support	11,345.0
WX Argentina	Auckland WX	13,282.0
WX Honolulu	Av Lat America?	17,950.0
WX Oakland	Avianca	8,938.0
WX Tokyo	Bell Can Quebec 1	3,166.0
MID-1	Bell Can Quebec 2	7,465.0
Civ Av CWP	Bell Can Quebec 3 prim	5,390.0
CWP-1/2	Bell Can Quebec 4 sec	5,430.0
Flight Test	Bell Telephone	3,155.0
LDOC Auckland	Bell Telephone	4,438.0
LDOC Jakarta	Bell Telephone	4,439.0
LDOC Mexico City	Bell Telephone	4,610.5
LDOC Rangoon	Bell Telephone	5,005.0
Berna Reserve	Bell Telephone	5,099.1
LDOC Lima	Bell Telephone	6,763.0
LDOC Trinidad	Bell Telephone	6,803.1

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Springbok Jo'burg	Bell Telephone	7,300.0
WW HON	Bell Telephone	7,549.1
WW SFO	Bell Telephone	7,552.0
NAT-A EA-1	Bell Telephone	7,552.1
Civ Av N Ctl Asia	Bell Telephone	7,697.1
NCA-1 oil rigs AK	Ben Gurion	8,837.0
Offshore Drilling	Berna Radio	4,654.0
Search & Rescue	Berna Radio	6,643.0
Canada MACS VOLMET	Berna Radio	8,936.0
Edm/Tren Mil	Berna Radio	10,069.0
TAC	Berna Radio	13,205.0
USAF GCCS	Berna Radio	13,324.0
USAF GCCS	Berna Radio	15,046.0
USAF GCCS	Berna Radio	15,835.0
Lahr/Edm/Tren/StJ Mil	Berna Radio	17,415.0
RAF Alconbury (USAF)	Berna Radio	18,023.0
USAF SAC	Berna Radio	21,988.0
NASA	Berna Radio	25,500.0
RAF Air Defense	Berna Reserve	3,010.0
USCG Helos	Boeing	13,312.0
USCG A/G	Can CG	4,376.0
US Navy Tactical	Canada MACS	4,730.0
USAF GCCS	Canada MACS	4,752.0
Bell Telephone	Canada MACS	5,703.0
Bell Can Quebec 1	Canada MACS	5,718.0
FHWA	Canada MACS	6,708.0
Flight Test	Canada MACS	6,716.0
Corps of Engineers	Canada MACS	9,010.0
Corps of Engineers	Canada MACS	10,194.0
USAF SAC	Canada MACS	11,236.0
USAF SAC	Canada MACS	13,207.0
Corps of Engineers	Canada MACS	13,254.0
DOT Emergency	Canada MACS	13,970.0
FHWA	Canada MACS	18,027.0
Corps of Engineers	Canada MACS	23,250.0
CHU Time	Canada MACS VOLMET	3,046.0
DOE	Canada MACS VOLMET	5,690.0
US Customs Channel YK	Canada MACS VOLMET	6,693.0
USAF SAC	Canada MACS VOLMET	6,746.0
USCG Cutters	Canada MACS VOLMET	11,249.0
Hurricane Ctr Miami	Canada North Civil Av	5,680.0
NOAA	Canada Search & Rescue	5,718.0
CEP-5	Canada Search & Rescue	8,993.0
Civ Av Ctl E Pac	CAR	5,550.0
Shannon Volmet	CAR	13,297.0
AFI-2	Carib Inter-Island	7,165.0
AFI-5 SP-9	Caribbean Airways	6,526.0
US Customs Channel YA	Caribbean Airways	17,485.0
WX Bangkok	Caribbean Maritime	7,168.0

Sheet1

Offshore Drilling	CCG Halifax Coast	2,749.0
Flight Test	CEP-5	2,869.0
AFI-1	CEP-5	3,413.0
SAT-1	CEP-5	5,547.0
W-CAR	CEP-5	5,574.0
Rainbow Radio	CEP-5	8,843.0
AFI-3	CEP-5	11,282.0
AFI-3 MID-2 SP-6/7	CEP-5	13,300.0
Civ Av ME	CEP-5	13,354.0
Civ Av S Pac	CEP-5	17,904.0
Civ Av W Afr	CFARS	14,384.5
MID-2	CFB Trenton patches	11,214.0
SP-6	Chalk Airlines	5,737.0
SP-7	CHU Time	3,330.0
SEA-1/3 AK	CHU Time	7,335.0
MID	CHU Time	14,670.0
INO-1	Civ Av Afr	10,057.0
NAT-E	Civ Av Carib	5,550.0
C/SE/NE-SAM EUR-1	Civ Av Ctl E Pac	3,413.0
Orion Portishead	Civ Av Ctl E Pac	5,574.0
SEA-2 EA-2	Civ Av Ctl E Pac	6,673.0
WX Gander	Civ Av Ctl E Pac	10,057.0
WX NY	Civ Av Ctl E Pac	13,288.0
WW NY	Civ Av CWP	2,998.0
WW San Juan	Civ Av CWP	4,666.0
WX Brazzaville	Civ Av E Afr	2,851.0
WX Dakar	Civ Av E Afr	5,493.0
American Red Cross	Civ Av E Asia	10,042.0
Hurricane Natl Net	Civ Av E Asia	13,297.0
RN Culdrose	Civ Av Ind Oc	17,961.0
Hurricane Gulf Net	Civ Av ME	2,956.0
RAF Martelo Net MKL	Civ Av ME	3,467.0
RAF Air Defense	Civ Av ME	5,589.0
Hurricane W Gulf	Civ Av ME	8,945.0
DOT Emergency	Civ Av ME	10,018.0
Scheveningen Radio Ship	Civ Av N Afr	5,352.0
Emergency Coordination	Civ Av N Atl	8,825.0
Marine Calling/Distress	Civ Av N Ctl Asia	3,019.0
Ship/Ship	Civ Av N Ctl Asia	5,676.0
Ship/Ship	Civ Av N Ctl Asia	11,297.0
FACSFAC	Civ Av N Ctl Asia	13,303.0
Can CG	Civ Av N Pac	8,951.0
Drug Enforcement	Civ Av NW Afr	17,961.0
USCG	Civ Av N&S Pac	13,273.0
USCG Portsmouth wx	Civ Av Pac	2,863.0
Bell Telephone	Civ Av Pac	6,679.0
Bell Telephone	Civ Av Pac	8,828.0
USAF TAC	Civ Av S Am	13,352.0
RAF UKADGE	Civ Av S Atl	2,844.0

Sheet1

Civil Air Patrol	Civ Av S Pac	3,467.0
Civil Air Patrol	Civ Av SE Asia	2,965.0
DOE	Civ Av SE Asia	6,676.0
USAF SAC	Civ Av SW S Am	8,826.0
USAF SAC	Civ Av W Afr	3,467.0
USAF SAC	Civ Av W Afr	6,574.0
DEA	Civil Air Patrol	2,371.0
US Customs Channel ZA	Civil Air Patrol	2,374.0
Civil Air Patrol	Civil Air Patrol	4,464.5
Civil Air Patrol	Civil Air Patrol	4,467.5
USAF Coordination	Civil Air Patrol	4,504.5
RAF Strike Command	Civil Air Patrol	4,507.5
Gulf of Mexico	Civil Air Patrol	4,582.0
Civil Air Patrol	Civil Air Patrol	4,585.0
Civil Air Patrol	Civil Air Patrol	4,597.5
Civil Air Patrol	Civil Air Patrol	4,602.5
Civil Air Patrol	Civil Air Patrol	4,627.0
Bell Telephone	Civil Air Patrol	4,630.0
Civil Air Patrol	Civil Air Patrol	4,664.0
Civil Air Patrol	Civil Air Patrol	6,735.0
Gulf Oil Rigs	Civil Air Patrol	7,635.0
Alaska	Civil Air Patrol	7,918.5
Lajes AFB	Civil Air Patrol	14,902.0
Berna Radio	Civil Air Patrol	20,873.0
AFI-5	Civil Air Patrol	26,620.0
Civil Air Patrol	Coast Guard Halifax Coast	8,785.0
MAF Net LatAm	Coast Guard Halifax Coast	13,113.0
Civ Av CWP	COMNAVFORCARIB	7,535.0
CWP-1/2	COMNAVFORCARIB	15,522.0
WX Argentina	COMSTA Charleston	10,788.0
NW/SW-SAM MID-3	Corps of Engineers	2,300.0
DOE	Corps of Engineers	2,326.0
Offshore Drilling	Corps of Engineers	2,345.0
NAT-D	Corps of Engineers	2,348.5
NCA-2	Corps of Engineers	2,350.0
LDOC Rangoon	Corps of Engineers	2,602.0
Lahr/Edm/Tren/StJ Mil	Corps of Engineers	2,605.0
RAF Air Defense	Corps of Engineers	3,287.0
RAF Air Defense	Corps of Engineers	3,290.0
USN A/G	Corps of Engineers	3,302.0
RAF UKADGE	Corps of Engineers	3,305.0
USAF GCCS	Corps of Engineers	4,850.0
RAF	Corps of Engineers	5,011.0
TAC	Corps of Engineers	5,015.0
USAF SAC	Corps of Engineers	5,327.0
SAC (Ch Victor)	Corps of Engineers	5,346.0
USAF GCCS	Corps of Engineers	5,400.0
Canada MACS	Corps of Engineers	5,437.0
RAF Martelo Net MKL	Cubana	5,562.0

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RAF Strike Command	Cubana	8,927.0
RAF Air Defense	Cubana	21,985.0
RAF Strike Command	CWP-1	2,932.0
USAF GCCS	CWP-1	6,532.0
USAF GCCS	CWP-1	8,903.0
RAF Finingley	CWP-1	13,300.0
Canada MACS	CWP-1	17,904.0
Orion Portishead	CWP-1/2	2,998.0
National Guard	CWP-1/2	4,666.0
Corps of Engineers	CWP-1/2	6,562.0
USAF Coordination	CWP-1/2	11,384.0
NASA Cape Radio	CWP-2	6,532.0
NORAD/SAGE	CWP-2	8,903.0
Medical Owings Mill MD	CWP-2	13,300.0
USAF SAC	CWP-2	17,904.0
FHWA	C-SAM	10,096.0
Alaska	C-SAM	13,297.0
DEA	C/NE/SE-SAM	5,526.0
US Customs Channel XB	C/NE/SE-SAM AK	8,855.0
NASA Cape Radio	C/SE/NE-SAM EUR-1	3,479.0
MSF Time/Freq	DEA	2,808.5
WWV	DEA	4,500.0
Bell Telephone	DEA	4,991.0
DOT Emergency	DEA	5,058.5
Corps of Engineers	DEA	5,277.0
Corps of Engineers	DEA	5,841.0
USAF SAC	DEA	7,300.0
USAF SAC	DEA	7,582.0
Gulf of Mexico	DEA	7,657.0
DEA	DEA	9,497.0
US Customs Channel XC	DEA	11,246.0
RAF UKADGE	DEA	12,222.0
Bell Telephone	DEA	13,312.0
USAF SAC	DEA	14,350.0
Alaska	DEA	14,690.0
French Canadian fixed	DEA	16,141.0
Alaska Emergency	DEA	23,675.0
USAF SAC	DEA I Alt day	23,403.0
ETR PRI Night Channel	DEA P Alt day	14,686.0
FEMA	DEW Line	5,295.0
USAF SAC	DOE	2,287.5
USAF SAC	DOE	2,622.5
FHWA	DOE	3,336.6
DEA	DOE	4,480.5
DEW Line	DOE	4,669.5
NORAD/SAGE	DOE	5,309.5
DOE	DOE	5,752.5
Alaska	DOE	5,948.5
USCG Air	DOE	6,646.5

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Corps of Engineers	DOE	6,982.5
USAF SAC	DOE	7,701.5
Corps of Engineers	DOE	7,840.5
USAF Coordination	DOE	8,025.0
Civ Av N Afr	DOE	9,115.5
Bell Can Quebec 3 prim	DOE	9,919.5
Corps of Engineers	DOE	9,963.5
FHWA	DOE	11,126.5
Bell Can Quebec 4 sec	DOE	11,397.5
NASA	DOE	11,556.5
Corps of Engineers	DOE	13,261.5
RAF Martelo Net MKL	DOE	13,803.5
RN Yeovilton Ops	DOE	14,657.0
Flight Test	DOE	16,065.5
RAF UKADGE	DOE	17,398.5
Domestic AK	DOE	17,902.5
Offshore Drilling	Domestic AK	2,875.0
Flight Test	Domestic AK	2,911.0
RAF UKADGE	Domestic AK	2,956.0
Domestic AK	Domestic AK	5,463.0
WX Argentina	Domestic AK	5,472.0
Domestic AK	Domestic AK	5,484.0
Domestic AK	Domestic AK	5,490.0
LIAT Antigua	Domestic AK	5,496.0
Norontair S Ste Marie ON	Domestic AK	5,631.0
AFI-4	Domestic AK	6,580.0
Civ Av E Afr	Domestic AK	6,604.0
Domestic AK	Domestic AK	8,876.0
Shannon Volmet	Domestic AK	11,357.0
Offshore Drilling	Domestic AK	11,363.0
WX Anchorage	DOT Emergency	3,303.0
WX Hong Kong	DOT Emergency	4,055.0
WX Honolulu	DOT Emergency	5,008.0
WX Oakland	DOT Emergency	7,373.5
WX Tokyo	DOT Emergency	7,475.0
W-CAR	DOT Emergency	7,582.0
C/NE/SE-SAM	DOT Emergency	8,125.0
Iberia	DOT Emergency	9,074.5
Sabena	DOT Emergency	11,028.0
Aer Lingus	DOT Emergency	13,432.5
Alitalia	DOT Emergency	17,421.0
Springbok Jo'burg	Dragon Radio	6,637.0
TAP Portuguese airline	Dragon Radio	8,921.0
LDOC Lima Peru	Dragon Radio	13,333.0
LDOC London	Dragon Radio	17,940.0
LDOC Trinidad	Drug Enforcement	4,376.0
Middle East Airlines	Drug Enforcement	6,513.0
LDOC Stockholm	Drug Enforcement	8,769.0
LDOC Mexico City	Drug Enforcement	12,220.0

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CEP-5	Drug Enforcement	13,150.0
CAR	Drug Enforcement B	5,841.0
Civ Av Carib	Drug Enforcement E	11,076.0
Cubana	Drug Enforcement H	18,666.0
Hurricane Ctr Miami	East African Awys	17,931.0
NOAA	East African Awys	21,982.0
SAT-1/2	EA-1	6,571.0
Flight Test	EA-1	8,897.0
US Customs Channel YB	EA-1 SEA-2	5,655.0
CEP-5	Edm/Tren Mil	3,046.0
Civ Av Ctl E Pac	Edm/Tren Mil	8,989.0
Civ Av ME	Edm/Tren Mil	11,265.0
NAT-A	Edm/Tren Mil	11,271.0
Rainbow Radio	Edm/Tren/StJ Mil	17,995.0
Orion Portishead	Edm/Tren/StJ Mil WX	6,753.0
NAT-B/C	Edm/Tren/StJ Mil WX	15,035.0
NP-3	Egyptair	8,933.0
NP-4	Egyptair	17,931.0
Domestic AK	Egyptair	21,982.0
INO-1	Emergency Coordination	4,125.0
SP-6	ETR PRI Night Channel	5,190.0
SP-7	EUR-A	5,661.0
NAT-B/C SEA-2	EUR-A	6,598.0
AFI-2 CWP-1/2 AFI-2	EUR-A	10,084.0
EA-1 SEA-2	EUR-A	17,961.0
AFI-3 MID-2	E-CAR	2,887.0
EUR-A	E-CAR	6,577.0
NCA-3	E-CAR	11,387.0
MID-1	E-CAR MID-1	8,918.0
Civ Av N Ctl Asia	FAA	13,630.0
Air/sea SAR worldwide	FAA	16,348.0
Canada North Civil Av	FAA	20,852.0
Halifax Military	FAA	27,625.0
USAF SAC	FAA, KDM49	8,125.0
RAF Finingley	FAA KIA21	7,475.0
USAF GCCS	FACSFAC	4,373.0
Canada MACS VOLMET	FACSFAC Jacksonville	6,742.0
Lahr Military WX	FACSFAC Jacksonville	11,252.0
German Air Force	FACSFAC Oceana	7,467.0
USCG Helos	FEMA	5,211.0
USCG A/G	FEMA	7,533.5
USAF SAC	FEMA	10,194.0
Canada MACS	FEMA	10,493.0
USAF GCCS	FEMA	10,588.0
USAF GCCS	FEMA	14,450.0
ATL Fleet Ships	FEMA	14,776.0
Canada MACS	FEMA	16,201.0
Canada Search & Rescue	FEMA	18,023.0
RAF UKADGE	FEMA	21,272.0

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RAF Strike Command	FEMA	28,091.0
Chalk Airlines	FHWA	3,199.5
RAF Air Defense	FHWA	3,304.5
DOE	FHWA	4,902.0
USAF Coordination	FHWA	5,255.0
USAF SAC	FHWA	5,424.0
DEA	FHWA	7,419.0
Drug Enforcement B	FHWA	7,726.5
Alaska	FHWA	7,743.0
DOE	FHWA	7,821.0
USAF SAC	FHWA	9,169.0
Marine Calling/Distress	FHWA	9,197.0
Ship/Ship	FHWA	10,891.0
Ship/Ship	FHWA	10,918.0
Ship/Ship	FHWA	11,518.7
USCG Cutters	FHWA	12,158.0
USCG Portsmouth wx	FHWA	12,178.7
Drug Enforcement	FHWA	14,461.0
USCG Miami COMSTA	FHWA	15,910.0
Caribbean Airways	FHWA	16,211.5
Gulf Air	FHWA	17,525.0
CWP-1	FHWA	19,223.0
CWP-2	Flight Test	3,004.0
AFI-1	Flight Test	3,281.0
SAT-1	Flight Test	3,443.0
Flight Test	Flight Test	5,451.0
SP-9	Flight Test	5,469.0
SEA-1/3	Flight Test	5,571.0
AFI-4	Flight Test	6,550.0
CWP-1/2	Flight Test	10,045.0
RAF Strike Command	Flight Test	11,306.0
EA-1	Flight Test	17,964.0
AFI-3	Flight Test	21,931.0
Civ Av W Afr	French Canadian fixed	5,164.0
E-CAR	Gander	2,298.0
Domestic AK	Gander Aeradio	10,051.0
AFI-4 W-CAR	German Air Force	5,691.0
NCA-2	German Air Force	11,187.0
EUR-A	German Air Force	11,266.0
WX Brazil	German Air Force	13,246.0
Domestic AK	German Air Force	13,248.0
WX Gander	German Air Force	17,992.0
WX NY	German Air Force	18,006.0
WX Brazzaville	Gulf Air	6,526.0
NAT-D	Gulf Air	10,093.0
MID	Gulf Air	11,354.0
NAT-E	Gulf Air	17,931.0
MID	Gulf Air	21,943.0
Orion Portishead	Gulf of Mexico	4,550.0

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Dragon Radio	Gulf of Mexico	5,036.0
LDOC Auckland	Gulf Oil Rigs	4,637.5
LDOC Jakarta	Halifax Mil WX	15,038.0
LDOC Singapore	Halifax Military	5,684.0
WW HOU	Harbour Control	2,714.0
WW HON	Harbour Control	2,836.0
WW NY	HICOM LANT/CARIB	11,267.0
WW San Juan	Honolulu ATC	13,288.0
WW SFO	Honolulu VOLMET	13,282.0
Berna Radio	Honolulu WX	8,828.0
DOE	Hurricane Amateur Net	14,283.0
NW/SW-SAM	Hurricane Ctr Miami	3,407.0
NP	Hurricane Ctr Miami	5,562.0
SEA-1	Hurricane Ctr Miami	7,268.0
NP	Hurricane Ctr Miami	8,876.0
AFI-1	Hurricane Ctr Miami	10,015.0
Civ Av Ctl E Pac	Hurricane Ctr Miami	13,267.0
Hurricane Ctr/Hunters	Hurricane Ctr Miami	17,901.0
Civ Av SE Asia	Hurricane Ctr/Hams	14,325.0
WX Bangkok	Hurricane Ctr/Hunters	6,673.0
WX Singapore	Hurricane Ctr/Hunters	11,398.0
Civ Av Pac	Hurricane Ctr/Hunters	13,354.0
USAF SAC	Hurricane Ctr/Hunters	21,937.0
USAF GCCS	Hurricane Gulf Net	3,935.0
USMC Convoys	Hurricane Gulf Net	7,235.0
USAF GCCS	Hurricane IARN/Red Cross	14,275.0
RAF UKADGE	Hurricane Natl Net	3,815.0
ATL Fleet Aircraft	Hurricane Puerto Rico Net	7,055.0
Canada MACS VOLMET	Hurricane Puerto Rico Net	7,073.0
RAF Air Defense	Hurricane Puerto Rico Net	14,280.0
RAF Martelo Net MKL	Hurricane Puerto Rico Net	28,450.0
USN HICOM LANT/CARIB	Hurricane W Gulf	3,943.0
Lahr/Edm/Tren/StJ Mil	Hurricane Warn	7,507.0
ATL Fleet Ships, A/C	Hurricane Warn	9,380.0
Canada MACS	IARN II, Red Cross Net	14,265.0
NORAD/SAGE	Iberia	5,529.0
USAF SAC	Iberia	21,967.0
USCG Cutters	IMRA Mission Net	14,280.0
RAF Air Defense	INO-1	3,476.0
USAF Rescue	INO-1	5,634.0
Canada MACS	INO-1	17,961.0
USN HICOM East/North	INO-1 NAT-A/B/C	13,306.0
Air/Ground Common	INO-1 NAT-B/C AFI-5	8,879.0
US Navy (Raspberry Ch)	Intership Safety	2,638.0
USAF Coordination	Intership Safety	2,738.0
USAF GCCS	Intership Safety	2,782.0
USAF GCCS VIP	Intl Police Assn	21,410.0
RAF Strike Command	Intl Red Cross Switzerlnd	6,998.5
USAF GCCS VIP	Intl Red Cross Switzerlnd	13,915.0

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RAF Air Defense	Intl Red Cross Switzerlnd	13,965.0
Civil Air Patrol	Intl Red Cross Switzerlnd	13,973.0
RAF Strike Command	Intl Red Cross Switzerlnd	13,997.0
USAF GCCS	Intl Red Cross Switzerlnd	20,753.0
RAF Air Defense	Intl Red Cross Switzerlnd	20,812.0
USAF Coordination	Intl Red Cross Switzerlnd	20,815.0
RAF Alconbury (USAF)	Intl Red Cross Switzerlnd	20,939.0
FACSFAC Jacksonville	Intl Red Cross Switzerlnd	20,942.0
Canada MACS VOLMET	Intl Red Cross Switzerlnd	20,998.0
USAF SAC	Intl Red Cross Switzerlnd	27,998.0
RAF Air Defense	Intl Red Cross Switzerlnd	29,701.0
USAF GCCS	Japan Air	13,324.0
Edm/Tren/StJ Mil WX	Japan Air	17,928.0
USAF GCCS	Jupiter Control	20,192.0
USAF GCCS	Lahr Military WX	5,690.0
USAF GCCS	Lahr Military WX	13,231.0
RAF UKADGE	Lahr/Edm/Tren/StJ Mil	3,092.0
USAF GCCS VIP	Lahr/Edm/Tren/StJ Mil	4,704.0
Bell Telephone	Lahr/Edm/Tren/StJ Mil	6,705.0
RAF Air Defense	Lahr/Edm/Tren/StJ Mil	9,006.0
Bell Telephone	Lahr/Edm/Tren/StJ Mil	11,233.0
USAF SAC	Lahr/Edm/Tren/StJ Mil	13,257.0
USAF GCCS VIP	Lahr/Edm/Tren/StJ Mil	15,031.0
NASA Cape Radio	Lahr/Edm/Tren/StJ Mil	18,012.0
USAF SAC	Lajes AFB	4,647.0
USAF SAC	Lat AM USAF Co-op	13,220.0
USAF SAC	Lat AM USAF Co-op	20,600.0
Tactical, CHOKER	Lat AM USAF Co-op	24,860.0
USAF SAC	Lat AM USAF Co-op	24,865.0
NASA Cape Radio	LDOC Lima Peru	5,535.0
LRCN	LDOC Amsterdam	8,924.0
Tactical, CHOKER	LDOC Amsterdam	13,327.0
DOE	LDOC Auckland	3,007.0
Intl Red Cross Switzerlnd	LDOC Auckland	6,637.0
Hurricane Puerto Rico Net	LDOC Auckland	10,072.0
Hurricane Puerto Rico Net	LDOC Auckland	13,333.0
Carib Inter-Island	LDOC Auckland	17,940.0
Caribbean Maritime	LDOC Auckland	21,970.0
Hurricane Gulf Net	LDOC Jakarta	3,007.0
Hurricane Ctr Miami	LDOC Jakarta	6,637.0
Bell Telephone	LDOC Jakarta	8,921.0
DEA	LDOC Jakarta	10,072.0
USAF SAC	LDOC Jakarta	13,351.0
CHU Time	LDOC Jakarta	17,916.0
DOT Emergency	LDOC Jakarta	21,970.0
FHWA	LDOC Karachi	8,930.0
USCG Cutters	LDOC Karachi	11,351.0
NASA Cape Radio	LDOC Karachi	13,342.0
Bell Can Quebec 2	LDOC Karachi	17,940.0

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FACSFAC Oceana	LDOC Karachi	21,970.0
DOT Emergency	LDOC Lima	3,010.0
FAA KIA21	LDOC Lima	8,924.0
SHARES Emergency Net	LDOC Lima	11,345.0
USAF SAC	LDOC Lima	11,393.0
WX Dakar	LDOC Lima	17,937.0
Hurricane Warn	LDOC Lima	21,976.0
US Customs Channel ZB	LDOC Lima Peru	8,885.0
FEMA	LDOC London	5,535.0
COMNAVFORCARIB	LDOC Mexico City	3,007.0
SHARES Emergency Net	LDOC Mexico City	5,544.0
Bell Telephone	LDOC Mexico City	8,927.0
Bell Telephone	LDOC Mexico City	10,039.0
Bell Telephone	LDOC Mexico City	13,339.0
Sunair KK2XCE	LDOC Mexico City	17,919.0
DEA	LDOC Mexico DF	17,940.0
DOT Emergency	LDOC Ostende	13,351.0
Special Patrol Ops	LDOC Ostende	17,940.0
Civil Air Patrol	LDOC Paris	13,351.0
Rockwell Collins	LDOC Rangoon	3,007.0
DEA	LDOC Rangoon	4,687.0
Bell Telephone	LDOC Rangoon	11,351.0
DOE	LDOC Rangoon	13,342.0
FHWA	LDOC Rangoon	17,934.0
FHWA	LDOC Rangoon	21,949.0
US Customs Channel XD	LDOC Singapore	6,637.0
LRCN	LDOC Singapore	8,930.0
LRCN	LDOC Singapore	10,078.0
FHWA	LDOC Singapore	13,333.0
DOE	LDOC Singapore	17,934.0
NOAA	LDOC Singapore	21,949.0
Civil Air Patrol	LDOC Stockholm	5,541.0
Medical Owings MD	LDOC Stockholm	8,930.0
USAF SAC	LDOC Stockholm	17,916.0
DOE	LDOC Trinidad	3,010.0
USAF SAC	LDOC Trinidad	5,535.0
DOT Emergency	LDOC Trinidad	8,924.0
FAA, KDM49	LDOC Trinidad	11,345.0
SHARES Emergency Net	LDOC Trinidad	13,336.0
Special Patrol Ops	LDOC Trinidad	17,928.0
Orion Portishead	LDOC Trinidad	21,955.0
Orion Portishead	LIAT Antigua	5,490.0
RAF Strike Command	Lima Radio	11,306.0
USCG Comsta Key West	LRCN	6,965.0
Scheveningen Ship Main	LRCN	7,790.0
Marine Calling/Distress	LRCN	7,820.0
Ship/Ship	Lufthansa	13,327.0
Ship/Ship	Lufthansa	17,931.0
Survival Craft	Lufthansa	21,979.0

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USCG Comsta N Orleans	MAAG Bolivia, Panama	20,885.0
USCG New Orleans	MAF Net LatAm	4,665.0
USCG Portsmouth wx	Marine Calling/Distress	2,182.0
Drug Enforcement	Marine Calling/Distress	4,125.0
Air/Ground Common	Marine Calling/Distress	6,215.0
ATL Fleet Ships	Marine Calling/Distress	8,291.0
Coast Guard Halifax Coast	Marine Calling/Distress	12,290.0
RAF UKADGE	Marine Calling/Distress	16,420.0
Scheveningen Coast H05	Maritime Mobile Net	14,300.0
St Lys Coast	Medical Owings MD	7,952.0
Rainbow Radio	Medical Owings MD	12,327.0
Rockwell Flight Test	Medical Owings MD	16,450.0
Civ Av N Atl	Medical Owings MD	22,722.0
NAT-A	Medical Owings Mill MD	4,893.0
Civ Av SW S Am	Medical Owings Mill MD	16,590.2
Civ Av Pac	MID	3,473.0
Honolulu WX	MID	6,625.0
NAT-E	MID	6,631.0
Ben Gurion	Middle East Airlines	5,538.0
CEP-5	Middle East Airlines	10,075.0
SP-9 W-CAR	Middle East Airlines	13,330.0
C/NE/SE-SAM AK	Middle East Airlines	17,931.0
AFI-1 SAT-1/2	Middle East Airlines	21,943.0
NAT-B/C	MID-1	2,992.0
SP-6/7	MID-1	5,667.0
AFI-3	MID-1	13,312.0
AFI-4	MID-2	3,467.0
Domestic AK	MID-2	10,018.0
Hurricane Ctr Miami	MID-3	8,951.0
Oakland WX	MID-3	11,375.0
INO-1 NAT-B/C AFI-5	MIT Observatory	20,876.3
LDOC Lima Peru	MSF Time/Freq	5,000.0
AFI-4	NAS Key West	11,186.0
NAT-D	NASA	3,120.0
AFI-2 AFI-2	NASA	5,436.0
EA-1	NASA Cape Radio	4,856.0
AFI-4	NASA Cape Radio	4,992.0
CWP-1	NASA Cape Radio	6,837.0
CWP-2	NASA Cape Radio	6,896.0
WX Anchorage	NASA Cape Radio	7,461.0
WX Hong Kong	NASA Cape Radio	9,006.0
WX Honolulu	NASA Cape Radio	10,780.0
WX Oakland	NASA Cape Radio	11,414.0
WX Tokyo	NASA Cape Radio	11,548.0
NAT-E	NASA Cape Radio	19,640.0
US Customs Channel YC	NASA Cape Radio	23,413.0
E-CAR MID-1	National Guard	4,840.0
Atlanta Flight Support	NAT-A	5,598.0
Dragon Radio	NAT-A	8,825.0

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LDOC Jakarta	NAT-A EA-1	3,016.0
Speedbird London	NAT-A/B/C/D/E	17,946.0
LDOC Amsterdam	NAT-B/C	2,899.0
LDOC Lima	NAT-B/C	2,962.0
LDOC Trinidad	NAT-B/C	5,616.0
Sabena	NAT-B/C	8,864.0
TAP Portuguese airline	NAT-B/C SEA-2	5,649.0
Cubana	NAT-B/C/D	13,291.0
LDOC Mexico City	NAT-D	2,971.0
LDOC Karachi	NAT-D	4,675.0
LDOC Singapore	NAT-D	6,622.0
LDOC Stockholm	NAT-D	8,891.0
Egyptair	NAT-D	11,279.0
Springbok Jo'burg	NAT-D	11,336.0
Berna Radio	NAT-E	3,476.0
Avianca	NAT-E	6,628.0
WX Argentina	NAT-E	8,831.0
SEA-2	NAT-E	8,906.0
Civ Av ME	NAT-E	11,309.0
Civ Av N Pac	NAT-E	13,354.0
MID-3	NCA-1 oil rigs AK	3,019.0
WX Shannon	NCA-1 SAT-1/2	13,315.0
Orion Portishead	NCA-1/2/3	17,958.0
USAF GCCS	NCA-2	4,678.0
RAF Strike Command	NCA-2	6,592.0
USAF GCCS	NCA-3	5,664.0
ATL Flight Safety	New York Radio	10,051.0
US Navy (Atlantic)	NE-SAM	10,096.0
RN Yeovilton Ops	NE-SAM	13,297.0
USN/NASA Air	NMFS, KAC	2,613.0
USCG Air	NOAA	3,407.0
RAF Martelo Net MKL	NOAA	5,562.0
Edm/Tren Mil	NOAA	7,880.0
USAF GCCS	NOAA	10,015.0
RAF Strike Command	NOAA	11,398.0
Canada Search & Rescue	NORAD	11,141.0
Portland Ops UK	NORAD	11,264.0
USAF patches McDill	NORAD	11,284.0
Lahr/Edm/Tren/StJ Mil	NORAD	29,855.0
NASA Cape Radio	NORAD/SAGE	4,872.0
USAF GCCS	NORAD/SAGE	5,297.0
Canada MACS	NORAD/SAGE	6,708.0
RAF UKADGE	NORAD/SAGE	9,793.0
USAF GCCS	NORAD/SAGE	11,441.0
RN Prestwick Ops	NORAD/SAGE	14,894.0
USAF	NORAD/SAGE	20,855.0
USAF GCCS	Norontair S Ste Marie ON	5,490.0
USCG Miami	NP	6,655.0
USAF SAC	NP	6,661.0

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RAF Finingley	NP-3	5,628.0
RAF Alconbury (USAF)	NP-3	10,048.0
USAF SAC	NP-3	13,300.0
RAF Strike Command	NP-3	17,904.0
RAF Martelo Net MKL	NP-4	2,932.0
USAF SAC	NP-4	5,628.0
DOT Emergency	NP-4	10,048.0
DOE	NP-4	13,300.0
FHWA	NP-4	17,904.0
FHWA	NW-SAM	10,024.0
USAF SAC	NW/SW-SAM	6,649.0
USAF SAC	NW/SW-SAM	11,360.0
US Customs Channel XE	NW/SW-SAM MID-3	4,669.0
Sunair, KK2XCE	NW/SW-SAM MID-3 SAT-2	2,944.0
USAF Coordination	Oakland WX	8,878.0
USAF Coordination	Offshore Drilling	2,878.0
Hurricane Warn	Offshore Drilling	3,019.0
DEA	Offshore Drilling	3,434.0
NORAD/SAGE	Offshore Drilling	4,672.0
US Customs Channel ZC	Offshore Drilling	5,463.0
DOE	Offshore Drilling	5,508.0
DOE	Olympic Airways	13,327.0
USAF Coordination	Olympic Airways	21,979.0
WWV	Orion Portishead	3,482.0
Hurricane Ctr Miami	Orion Portishead	4,807.0
NOAA	Orion Portishead	5,610.0
Civ Av ME	Orion Portishead	6,634.0
MID-2	Orion Portishead	8,170.0
USAF GCCS	Orion Portishead	8,185.0
NW-SAM	Orion Portishead	8,960.0
SW-SAM	Orion Portishead	10,291.0
SW-SAM-8	Orion Portishead	12,133.0
LDOC Mexico City	Orion Portishead	13,865.0
Civ Av E Asia	Orion Portishead	14,890.0
Flight Test	Orion Portishead	16,370.0
NP-3	Orion Portishead	17,405.0
NP-4	Orion Portishead	18,210.0
Gander Aeradio	Orion Portishead	19,510.0
New York Radio	Orion Portishead	20,065.0
WX Gander	Orion Portishead	21,765.0
WX NY	Pan Am Health Org	14,235.0
Civ Av Afr	Panama Radio?	14,562.5
Civ Av Ctl E Pac	Phone patches French op	18,004.0
WX Brazil	Portishead	13,211.0
SEA-1	Portishead Coast	22,711.0
Berna Radio	Portishead Ships	22,015.0
LDOC Auckland	Portishead/Lima/Panama	11,306.0
LDOC Jakarta	Portland Ops UK	8,993.0
Speedbird London	Quantas	17,922.0

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WX Brazzaville	RAF	4,722.0
Middle East Airlines	RAF Air Defense	3,120.0
WW HOU	RAF Air Defense	3,939.0
LDOC Singapore	RAF Air Defense	4,707.0
EUR-A	RAF Air Defense	4,710.0
Air France	RAF Air Defense	4,739.0
Gulf Air	RAF Air Defense	5,747.0
C-SAM	RAF Air Defense	6,693.0
NE-SAM	RAF Air Defense	6,715.0
SE-SAM	RAF Air Defense	6,733.0
Canada MACS	RAF Air Defense	6,740.0
FEMA	RAF Air Defense	6,748.0
SHARES Emergency Net	RAF Air Defense	6,765.0
US Customs Channel TA	RAF Alconbury (USAF)	3,109.0
Orion Portishead	RAF Alconbury (USAF)	6,741.0
USAF SAC	RAF Alconbury (USAF)	9,025.0
FEMA	RAF Alconbury (USAF)	11,257.0
USAF SAC	RAF Finingley	4,749.0
FEMA	RAF Finingley	5,685.0
USCG Miami	RAF Finingley	9,024.0
NASA Cape Radio	RAF Finingley	11,250.0
COMSTA Charleston	RAF Martelo Net	2,428.0
FHWA	RAF Martelo Net MKL	3,935.0
SHARES Emergency Net	RAF Martelo Net MKL	4,730.0
FHWA	RAF Martelo Net MKL	5,441.0
DOT Emergency	RAF Martelo Net MKL	6,697.0
SHARES Emergency Net	RAF Martelo Net MKL	8,987.0
USAF GCCS VIP	RAF Martelo Net MKL	9,036.0
US Customs Channel XF	RAF Martelo Net MKL	11,212.0
Drug Enforcement E	RAF Martelo Net MKL	13,237.0
USAF SAC	RAF Martelo Net MKL	15,039.0
USAF SAC	RAF Martelo Net MKL	23,236.0
TAC	RAF Strike Command	2,591.0
DOE	RAF Strike Command	4,540.0
NORAD	RAF Strike Command	4,732.0
USAF GCCS	RAF Strike Command	4,742.0
USAF GCCS	RAF Strike Command	5,729.0
USAF GCCS VIP	RAF Strike Command	6,562.0
USAF GCCS	RAF Strike Command	6,730.0
RAF Strike Command	RAF Strike Command	6,738.0
NAS Key West	RAF Strike Command	8,190.0
German Air Force	RAF Strike Command	8,967.0
USCG A/G	RAF Strike Command	8,990.0
USCG Helos	RAF Strike Command	9,032.0
WX RAF Volmet UK	RAF Strike Command	11,185.0
USCG Air	RAF Strike Command	11,204.0
RAF Strike Command	RAF Strike Command	11,234.0
USN HICOM	RAF Strike Command	13,257.0
RAF Martelo Net MKL	RAF Strike Command	15,031.0

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CFB Trenton patches	RAF Strike Command	18,018.0
USAF	RAF Strike Command	23,226.0
USAF SAC	RAF UKADGE	4,464.0
Stockholm Radio	RAF UKADGE	4,717.0
USAF GCCS	RAF UKADGE	5,095.0
USAF GCCS	RAF UKADGE	5,462.0
USAF GCCS	RAF UKADGE	5,470.0
Lahr/Edm/Tren/StJ Mil	RAF UKADGE	5,721.0
RAF Strike Command	RAF UKADGE	6,690.0
Canada MACS	RAF UKADGE	6,760.0
USAF GCCS	RAF UKADGE	8,790.0
USAF GCCS	RAF UKADGE	9,011.0
USAF SAC	Rainbow Radio	3,458.0
DEA	Rainbow Radio	5,604.0
USAF GCCS	Rainbow Radio	8,819.0
Canada MACS VOLMET	Rainbow Radio	13,285.0
RAF Finingley	Rainbow Radio	13,420.0
FACSFAC Jacksonville	Rainbow Radio	17,910.0
USN HICOM LANT	RN Culdrose	3,885.0
RAF Alconbury (USAF)	RN Prestwick Ops	9,014.0
NORAD	RN Yeovilton Ops	5,450.0
Edm/Tren Mil	RN Yeovilton Ops	8,977.0
German Air Force	Rockwell Collins	7,655.0
HICOM LANT/CARIB	Rockwell Flight Test	8,822.0
Edm/Tren Mil	Rockwell Flight Test	13,312.0
NAT-D	Sabena	5,529.0
CEP-5	Sabena	8,924.0
NORAD	SAC (Ch Victor)	4,727.0
US Customs Channel YD	SAM E/W-CAR EA-2	17,907.0
SAT-1/2	SAT	2,935.0
Civ Av N Ctl Asia	SAT-1	3,452.0
AFI-3	SAT-1	6,535.0
Flight Test	SAT-1/2	2,854.0
Lima Radio	SAT-1/2	5,565.0
Portishead/Lima/Panama	SAT-1/2	11,291.0
NAT-E	Saudi Airlines	17,925.0
SEA-3	Saudi Airlines	21,994.0
WX Argentina	Scheveningen Coast A Call	2,824.0
SP	Scheveningen Coast B	1,716.0
AFI NP	Scheveningen Coast C	2,600.0
NAT-D	Scheveningen Coast D	1,674.0
SP-9	Scheveningen Coast F	1,713.0
WW HON	Scheveningen Coast H05	8,794.0
WW NY	Scheveningen Coast H05	13,113.0
WW San Juan	Scheveningen Coast H05	17,347.0
Atlanta Flight Support	Scheveningen Coast H05	22,708.0
LDOC Lima	Scheveningen Coast I	1,890.0
LDOC Trinidad	Scheveningen Radio Ship	4,077.0
Stockholm Radio	Scheveningen Ship A Call	2,520.0

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WW HON	Scheveningen Ship B	2,060.0
WW SFO	Scheveningen Ship C	1,995.0
LDOC Karachi	Scheveningen Ship D	2,099.0
LDOC Rangoon	Scheveningen Ship F	2,138.0
Gulf Air	Scheveningen Ship I	2,045.0
Springbok Jo'burg	Scheveningen Ship I	2,048.0
Domestic AK	Scheveningen Ship I	2,051.0
NW/SW-SAM	Scheveningen Ship I	2,054.0
Domestic AK	Scheveningen Ship Main	8,270.0
MID-3	Scheveningen Ship Main	12,266.0
CWP-1/2	Scheveningen Ship Main	16,465.0
E-CAR	Scheveningen Ship Main	22,012.0
WX Bangkok	Search & Rescue	3,023.0
WX Singapore	SEA-1	6,656.0
LDOC Lima	SEA-1	10,066.0
SEA-2/3 EA-2 W-CAR	SEA-1/3	6,556.0
DOE	SEA-1/3	13,318.0
Hurricane Ctr/Hunters	SEA-1/3 AK	3,470.0
NOAA	SEA-2	8,942.0
USAF SAC	SEA-2 EA-2	3,485.0
NASA Cape Radio	SEA-2 EA-2	13,309.0
USAF Coordination	SEA-2/3 EA-2 W-CAR	11,396.0
USAF Rescue	SEA-3	11,318.0
NORAD/SAGE	SE-SAM	10,096.0
US Customs Channel VF	SE-SAM	13,297.0
USAF SAC	Shannon Volmet	3,413.0
FHWA	Shannon Volmet	5,505.0
NASA Cape Radio	SHARES Emergency Net	7,475.0
USAF Coordination	SHARES Emergency Net	7,540.0
DOE	SHARES Emergency Net	8,125.0
USAF SAC	SHARES Emergency Net	10,195.0
US Navy MARS	SHARES Emergency Net	10,891.0
Orion Portishead	SHARES Emergency Net	11,028.0
FHWA	SHARES Emergency Net	13,630.0
FHWA	SHARES Emergency Net	13,993.0
Drug Enforcement	SHARES Emergency Net	14,383.5
DEA	SHARES Emergency Net	16,348.0
US Customs Channel ZD	Ship/Ship	4,148.0
Scheveningen Ship Main	Ship/Ship	4,164.0
Marine Calling/Distress	Ship/Ship	6,224.0
Medical Owings MD	Ship/Ship	6,227.0
Ship/Ship	Ship/Ship	6,230.0
Ship/Ship	Ship/Ship	8,294.0
Ship/Ship	Ship/Ship	8,297.0
USN HICOM WESTPAC	Ship/Ship	12,353.0
USCG Portsmouth wx	Ship/Ship	12,356.0
Coast Guard Halifax Coast	Ship/Ship	12,359.0
Scheveningen Coast H05	Ship/Ship	16,528.0
Drug Enforcement	Ship/Ship	16,531.0

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ATL Fleet Ships, A/C	Ship/Ship	16,534.0
US Navy HICOM	Ship/Ship	22,159.0
USAF GCCS	Ship/Ship	22,162.0
USAF GCCS VIP	Ship/Ship	22,165.0
Berna Radio	Ship/Ship	22,168.0
USAF SAC	Ship/Ship	22,171.0
Canada MACS	SP	11,327.0
USAF GCCS	Special Patrol Ops	7,626.0
Portishead	Special Patrol Ops	8,169.0
USAF SAC	Speedbird London	8,921.0
USAF GCCS	Speedbird London	10,072.0
Lat AM USAF Co-op	Speedbird London	13,333.0
Lahr Military WX	Speedbird London	17,922.0
RAF Martelo Net MKL	Speedbird London	21,946.0
USAF SAC	Springbok Jo'burg	3,013.0
USAF GCCS	Springbok Jo'burg	5,532.0
German Air Force	Springbok Jo'burg	8,933.0
USAF GCCS	Springbok Jo'burg	11,354.0
German Air Force	Springbok Jo'burg	13,330.0
Canada MACS	Springbok Jo'burg	17,925.0
Lahr/Edm/Tren/StJ Mil	Springbok Jo'burg	21,943.0
RAF Strike Command	SP-6	3,467.0
WW CEP	SP-6	5,643.0
DOE	SP-6	13,300.0
WX Shannon	SP-6	17,904.0
Hurricane Ctr Miami	SP-6/7	8,867.0
WX Gander	SP-7	3,467.0
WX NY	SP-7	5,643.0
AFI-2	SP-7	13,300.0
Civ Av N&S Pac	SP-7	17,904.0
AFI-4	SP-9	6,553.0
Auckland WX	SP-9	11,339.0
Honolulu VOLMET	SP-9 W-CAR	8,846.0
Rainbow Radio	St Lys Coast	8,806.0
AFI-3 EUR-A MID-2	Stockholm Radio	11,222.0
Civ Av Ctl E Pac	Stockholm Radio	11,345.0
Honolulu ATC	Stockholm Radio	13,342.0
NAT-B/C/D	Stockholm Radio	21,997.0
AFI-4	Stockholm Radio	23,210.0
CAR	Sunair, KK2XCE	9,305.0
Civ Av E Asia	Sunair, KK2XCE	13,881.0
C-SAM	Sunair KK2XCE	7,553.0
NE-SAM	Survival Craft	8,364.0
SE-SAM	SW-SAM	10,024.0
CEP-5	SW-SAM-8	10,024.0
CWP-1	TAC	3,060.0
CWP-2	TAC	4,724.0
NP-3	TAC	11,124.0
NP-4	TAC	23,206.0

Sheet1

SP-6	Tactical, CHOKER	6,879.0
SP-7	Tactical, CHOKER	6,970.0
Civ Av N Ctl Asia	TAP Portuguese airline	5,532.0
INO-1 NAT-A/B/C	TAP Portuguese airline	8,924.0
SEA-2 EA-2	TAP Portuguese airline	21,952.0
Boeing	Thai Airlines	17,920.0
DEA	UN Disaster Net 4UNUN1 NY	14,268.0
MID-1	UN Relief Net	14,283.0
Rockwell Flight Test	US Customs	14,493.5
US Customs Channel YE	US Customs	18,283.0
NCA-1 SAT-1/2	US Customs Channel TA	10,242.0
SEA-1/3	US Customs Channel TB	13,907.0
Berna Radio	US Customs Channel TC	20,890.0
Japan Air	US Customs Channel TD	23,214.0
Aerolineas Argentinas	US Customs Channel TE	25,350.0
LDOC Amsterdam	US Customs Channel VA	27,870.0
Lufthansa	US Customs Channel VB	20,631.0
Olympic Airways	US Customs Channel VD	15,964.0
Middle East Airlines	US Customs Channel VF	11,494.0
Springbok Jo'burg	US Customs Channel VF	18,594.0
WW HOU	US Customs Channel XA	2,808.5
WW NY	US Customs Channel XB	4,991.0
WW San Juan	US Customs Channel XC	5,085.0
Dragon Radio	US Customs Channel XD	7,778.5
LDOC Auckland	US Customs Channel XE	9,238.0
LDOC Singapore	US Customs Channel XF	11,073.0
Speedbird London	US Customs Channel XG	15,953.5
LDOC Trinidad	US Customs Channel XH	17,601.0
LDOC Mexico City	US Customs Channel XI	19,131.0
LDOC Karachi	US Customs Channel YA	3,428.0
LDOC Rangoon	US Customs Channel YB	5,571.0
Stockholm Radio	US Customs Channel YC	8,912.0
WX Anchorage	US Customs Channel YD	11,288.0
WX Hong Kong	US Customs Channel YE	13,312.0
WX Honolulu	US Customs Channel YF	17,972.0
WX Oakland	US Customs Channel YK	3,369.0
WX Tokyo	US Customs Channel ZA	4,500.0
WW HON	US Customs Channel ZB	7,527.0
WW SFO	US Customs Channel ZC	9,802.0
LDOC Jakarta	US Customs Channel ZD	12,222.0
LDOC Ostende	US Customs Channel ZE	15,867.0
LDOC Paris	US Navy Harbour	2,716.0
Civ Av S Am	US Navy HICOM	13,181.0
WX Brazil	US Navy MARS	12,047.5
CEP-5	US Navy MARS	13,826.0
Hurricane Ctr/Hunters	US Navy MARS	13,974.0
NAT-E	US Navy MARS	14,441.5
WW HON	US Navy MARS	14,470.0
AFI-1 SAT-1/2	US Navy Tactical	3,130.0

Sheet1

Rainbow Radio	US Navy (Atlantic)	8,972.0
DOT Emergency	US Navy (Raspberry Ch)	6,723.0
USAF SAC	USAF	9,014.0
FAA	USAF	11,214.0
SHARES Emergency Net	USAF Andrews AFB	25,433.0
DOE	USAF Coordination	4,510.0
US Navy MARS	USAF Coordination	4,855.0
Orion Portishead	USAF Coordination	5,350.0
Sunair, KK2XCE	USAF Coordination	5,810.0
US Customs Channel TB	USAF Coordination	6,727.0
USAF SAC	USAF Coordination	6,740.0
Intl Red Cross Switzerlnd	USAF Coordination	9,315.0
American Airlines	USAF Coordination	9,316.0
Intl Red Cross Switzerlnd	USAF Coordination	9,974.0
Canada MACS	USAF Coordination	11,414.0
Intl Red Cross Switzerlnd	USAF Coordination	11,548.0
US Navy MARS	USAF Coordination	14,615.0
SHARES Emergency Net	USAF Coordination	19,303.0
Intl Red Cross Switzerlnd	USAF Coordination	19,984.0
American Red Cross	USAF Coordination	20,191.0
Pan Am Health Org	USAF Coordination	20,475.0
IARN II, Red Cross Net	USAF Flight WX	23,220.0
UN Disaster Net 4UNUN1 NY	USAF GCCS	3,067.0
American Red Cross	USAF GCCS	3,074.0
Hurricane IARN/Red Cross	USAF GCCS	3,081.0
Hurricane Puerto Rico Net	USAF GCCS	3,137.0
IMRA Mission Net	USAF GCCS	4,721.0
Hurricane Amateur Net	USAF GCCS	4,729.0
UN Relief Net	USAF GCCS	4,746.0
Maritime Mobile Net	USAF GCCS	4,747.0
Hurricane Ctr/Hams	USAF GCCS	5,688.0
DEA	USAF GCCS	5,703.0
SHARES Emergency Net	USAF GCCS	5,710.0
CFARS	USAF GCCS	6,683.0
US Navy MARS	USAF GCCS	6,688.0
USN Ships	USAF GCCS	6,727.0
USAF SAC	USAF GCCS	6,738.0
FEMA	USAF GCCS	6,750.0
FHWA	USAF GCCS	6,753.0
USN Ships	USAF GCCS	6,756.0
US Navy MARS	USAF GCCS	6,757.0
USN Ships	USAF GCCS	8,964.0
US Customs	USAF GCCS	8,967.0
Panama Radio?	USAF GCCS	8,989.0
USAF Coordination	USAF GCCS	9,006.0
DOE	USAF GCCS	9,011.0
CHU Time	USAF GCCS	9,014.0
DEA P Alt day	USAF GCCS	10,019.0
DEA	USAF GCCS	11,176.0

Sheet1

USAF SAC	USAF GCCS	11,179.0
USAF SAC	USAF GCCS	11,182.0
USAF SAC	USAF GCCS	11,226.0
FEMA	USAF GCCS	11,228.0
USN Ships	USAF GCCS	11,229.0
Orion Portishead	USAF GCCS	11,236.0
NORAD/SAGE	USAF GCCS	11,239.0
Civil Air Patrol	USAF GCCS	11,246.0
USAF SAC	USAF GCCS	13,201.0
WWV	USAF GCCS	13,210.0
USAF GCCS	USAF GCCS	13,215.0
ATL Fleet Ships	USAF GCCS	13,244.0
Lahr/Edm/Tren/StJ Mil	USAF GCCS	13,247.0
RAF Strike Command	USAF GCCS	15,015.0
USAF GCCS	USAF GCCS	15,031.0
Edm/Tren/StJ Mil WX	USAF GCCS	15,036.0
USAF SAC	USAF GCCS	15,680.0
USAF GCCS	USAF GCCS	16,090.0
Halifax Mil WX	USAF GCCS	18,002.0
RAF Martelo Net MKL	USAF GCCS	18,019.0
USAF SAC	USAF GCCS	23,227.0
Berna Radio	USAF GCCS VIP	6,728.0
USAF GCCS VIP	USAF GCCS VIP	6,730.0
ATL Fleet Ships	USAF GCCS VIP	6,760.0
ATL Fleet Ships	USAF GCCS VIP	6,830.0
ATL Fleet Tactical	USAF GCCS VIP	11,055.0
USCG A/G	USAF GCCS VIP	11,180.0
USCG Helos	USAF GCCS VIP	13,204.0
COMNAVFORCARIB	USAF GCCS VIP	15,048.0
USAF SAC	USAF GCCS VIP	18,027.0
USAF GCCS	USAF GCCS VIP	18,390.0
Berna Radio	USAF patches McDill	8,993.0
US Customs Channel ZE	USAF Rescue	6,715.0
FHWA	USAF Rescue	11,440.0
US Customs Channel XG	USAF SAC	3,113.0
USAF SAC	USAF SAC	3,292.0
US Customs Channel VD	USAF SAC	3,295.0
Andrews, CROWN, AF-1	USAF SAC	3,369.0
DOE	USAF SAC	4,489.5
USAF GCCS	USAF SAC	4,492.0
DEA	USAF SAC	4,495.0
FEMA	USAF SAC	4,725.0
FHWA	USAF SAC	4,896.0
FAA	USAF SAC	5,020.0
SHARES Emergency Net	USAF SAC	5,026.0
Orion Portishead	USAF SAC	5,110.0
Marine Calling/Distress	USAF SAC	5,171.0
Medical Owings MD	USAF SAC	5,215.0
Scheveningen Ship Main	USAF SAC	5,243.0

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Ship/Ship	USAF SAC	5,328.0
Ship/Ship	USAF SAC	5,684.0
Ship/Ship	USAF SAC	5,700.0
Medical Owings Mill MD	USAF SAC	5,826.0
USCG Portsmouth wx	USAF SAC	5,987.0
Scheveningen Coast H05	USAF SAC	6,680.0
DOE	USAF SAC	6,712.0
Orion Portishead	USAF SAC	6,746.0
Berna Radio	USAF SAC	6,826.0
DOT Emergency	USAF SAC	6,840.0
Caribbean Airways	USAF SAC	6,863.0
FHWA	USAF SAC	6,870.0
US Customs Channel XH	USAF SAC	6,886.0
USAF SAC	USAF SAC	7,330.0
Hurricane Ctr Miami	USAF SAC	7,475.0
DOE	USAF SAC	7,983.0
CEP-5	USAF SAC	8,101.0
CWP-1	USAF SAC	9,023.0
CWP-2	USAF SAC	9,027.0
NP-3	USAF SAC	9,057.0
NP-4	USAF SAC	9,220.0
SP-6	USAF SAC	9,234.0
SP-7	USAF SAC	10,452.0
SAM E/W-CAR EA-2	USAF SAC	10,510.0
Rainbow Radio	USAF SAC	11,100.0
LDOC Jakarta	USAF SAC	11,118.0
LDOC Stockholm	USAF SAC	11,220.0
LDOC Mexico City	USAF SAC	11,243.0
Thai Airlines	USAF SAC	11,408.0
Quantas	USAF SAC	11,494.0
Speedbird London	USAF SAC	11,607.0
Saudi Airlines	USAF SAC	13,205.0
Springbok Jo'burg	USAF SAC	13,211.0
WW HON	USAF SAC	13,241.0
WW NY	USAF SAC	13,547.0
WW San Juan	USAF SAC	13,907.0
WW SFO	USAF SAC	14,448.0
Japan Air	USAF SAC	14,716.0
LDOC Trinidad	USAF SAC	14,744.0
East African Awys	USAF SAC	14,775.0
Egyptair	USAF SAC	14,955.0
Gulf Air	USAF SAC	15,035.0
Lufthansa	USAF SAC	15,041.0
Middle East Airlines	USAF SAC	15,544.0
LDOC Rangoon	USAF SAC	15,962.0
LDOC Singapore	USAF SAC	17,617.0
LDOC Lima	USAF SAC	17,972.0
Dragon Radio	USAF SAC	17,975.0
LDOC Auckland	USAF SAC	18,005.0

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LDOC Karachi	USAF SAC	18,594.0
LDOC Mexico DF	USAF SAC	20,167.0
LDOC Ostende	USAF SAC	20,631.0
WW HON	USAF SAC	20,737.0
WW HOU	USAF SAC	20,740.0
NAT-A/B/C/D/E	USAF SAC	20,846.0
Av Lat America?	USAF SAC	20,890.0
AFI-1 SAT-1/2	USAF SAC	21,815.0
NCA-1/2/3	USAF SAC	23,337.0
AFI-2	USAF SAC	23,419.0
AFI-3	USAF SAC	27,870.0
AFI-4	USAF TAC	4,449.0
Civ Av Ind Oc	USAF/USN Coord	18,990.0
Civ Av NW Afr	USCG	2,350.0
EUR-A	USCG	4,376.0
INO-1	USCG 7th Dist	2,691.0
Flight Test	USCG Air	5,320.0
US Customs Channel YF	USCG Air	8,984.0
USAF SAC	USCG Air	11,201.0
USAF SAC	USCG Air/Ground	2,261.0
German Air Force	USCG A/G	3,123.0
Edm/Tren/StJ Mil	USCG A/G	5,696.0
USAF GCCS	USCG A/G	11,195.0
Phone patches French op	USCG A/G	15,081.0
USAF SAC	USCG Comsta Key West	8,255.0
German Air Force	USCG Comsta N Orleans	8,760.0
Lahr/Edm/Tren/StJ Mil	USCG Cutters	3,387.0
RAF Strike Command	USCG Cutters	6,266.0
USAF GCCS	USCG Cutters	6,714.0
Berna Radio	USCG Cutters	7,439.0
FEMA	USCG Group Moriches	2,694.0
Canada MACS	USCG Helos	3,120.0
USAF GCCS VIP	USCG Helos	5,692.0
Orion Portishead	USCG Helos	11,198.0
US Customs	USCG Helos	15,084.0
USAF GCCS VIP	USCG Internal	2,103.0
US Customs Channel VF	USCG Miami	9,020.0
USAF SAC	USCG Miami	10,588.0
Drug Enforcement H	USCG Miami COMSTA	6,518.0
USAF/USN Coord	USCG New Orleans	8,764.0
US Customs Channel XI	USCG Portsmouth wx	4,426.0
FHWA	USCG Portsmouth wx	6,501.0
USAF Coordination	USCG Portsmouth wx	8,764.0
Orion Portishead	USCG Portsmouth wx	13,089.0
NASA Cape Radio	USCG Portsmouth wx	17,314.0
USAF Coordination	USCG w/ships, public	2,670.0
WWV	USMC Convoys	6,687.0
Orion Portishead	USN A/G	4,711.0
USAF SAC	USN HICOM	11,205.0

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USAF Coordination	USN HICOM East/North	6,720.0
Jupiter Control	USN HICOM LANT	11,255.0
USAF Coordination	USN HICOM LANT/CARIB	6,697.0
Lat AM USAF Co-op	USN HICOM LANT/CARIB	23,287.0
US Customs Channel VB	USN HICOM WESTPAC	12,761.0
USAF SAC	USN Ships	14,441.5
USAF SAC	USN Ships	14,467.0
USAF SAC	USN Ships	14,470.0
Intl Red Cross Switzerlnd	USN Ships	14,818.5
Intl Red Cross Switzerlnd	USN/NASA Air	8,981.0
Intl Red Cross Switzerlnd	WW CEP	13,261.0
USAF SAC	WW HON	3,013.0
FAA	WW HON	6,640.0
NORAD/SAGE	WW HON	11,342.0
Civil Air Patrol	WW HON	11,348.0
MIT Observatory	WW HON	13,348.0
MAAG Bolivia, Panama	WW HON	13,354.0
US Customs Channel TC	WW HON	17,925.0
USAF SAC	WW HON	17,940.0
Intl Red Cross Switzerlnd	WW HON	21,964.0
Intl Red Cross Switzerlnd	WW HOU	6,637.0
American Red Cross	WW HOU	10,075.0
Intl Red Cross Switzerlnd	WW HOU	13,330.0
FEMA	WW HOU	17,940.0
Intl Police Assn	WW HOU	21,964.0
Orion Portishead	WW NY	3,494.0
USAF SAC	WW NY	6,640.0
Flight Test	WW NY	11,342.0
Hurricane Ctr/Hunters	WW NY	13,330.0
Air France	WW NY	17,925.0
Gulf Air	WW NY	21,964.0
Middle East Airlines	WW San Juan	3,494.0
Springbok Jo'burg	WW San Juan	6,640.0
Speedbird London	WW San Juan	11,342.0
LDOC Rangoon	WW San Juan	13,330.0
LDOC Singapore	WW San Juan	17,925.0
Aer Lingus	WW San Juan	21,964.0
Alitalia	WW SFO	3,013.0
TAP Portuguese airline	WW SFO	6,640.0
LDOC Trinidad	WW SFO	11,348.0
WW HON	WW SFO	13,348.0
WW HOU	WW SFO	17,925.0
WW NY	WW SFO	21,964.0
WW San Juan	WWV	2,500.0
WW SFO	WWV	5,000.0
Iberia	WWV	10,000.0
LDOC Auckland	WWV	15,000.0
LDOC Jakarta	WWV	20,000.0
LDOC Karachi	WX Anchorage	2,980.0

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LDOC Lima	WX Anchorage	5,519.0
Lufthansa	WX Anchorage	8,903.0
Olympic Airways	WX Anchorage	13,344.0
East African Awys	WX Argentina	2,980.0
Egyptair	WX Argentina	4,668.0
Cubana	WX Argentina	5,477.0
Berna Radio	WX Argentina	8,938.0
Saudi Airlines	WX Argentina	11,319.0
Stockholm Radio	WX Bangkok	3,432.0
Scheveningen Ship Main	WX Bangkok	6,676.0
Portishead Ships	WX Bangkok	11,387.0
Ship/Ship	WX Brazil	6,603.0
Ship/Ship	WX Brazil	10,057.0
Ship/Ship	WX Brazil	13,352.0
Ship/Ship	WX Brazzaville	3,495.0
Ship/Ship	WX Brazzaville	6,617.0
ATL Fleet Ships	WX Brazzaville	10,073.0
Scheveningen Coast H05	WX Dakar	3,707.0
Portishead Coast	WX Dakar	7,500.0
Medical Owings MD	WX Gander	3,485.0
TAC	WX Gander	6,604.0
Stockholm Radio	WX Gander	10,051.0
US Customs Channel TD	WX Gander	13,270.0
USAF Flight WX	WX Hong Kong	5,519.0
ATL Fleet Aircraft	WX Hong Kong	8,903.0
RAF Strike Command	WX Hong Kong	13,344.0
USAF GCCS	WX Honolulu	2,980.0
RAF Martelo Net MKL	WX Honolulu	5,519.0
Canada MACS	WX Honolulu	8,903.0
USN HICOM LANT/CARIB	WX Honolulu	13,344.0
USAF SAC	WX NY	3,485.0
DEA I Alt day	WX NY	6,604.0
NASA Cape Radio	WX NY	10,051.0
USAF SAC	WX NY	13,270.0
DEA	WX Oakland	2,980.0
Lat AM USAF Co-op	WX Oakland	5,519.0
Lat AM USAF Co-op	WX Oakland	8,903.0
US Customs Channel TE	WX Oakland	13,344.0
USAF Andrews AFB	WX RAF Volmet UK	11,200.0
Berna Radio	WX Shannon	8,957.0
Civil Air Patrol	WX Shannon	13,264.0
FAA	WX Singapore	6,676.0
US Customs Channel VA	WX Singapore	11,387.0
USAF SAC	WX Tokyo	2,980.0
Intl Red Cross Switzerlnd	WX Tokyo	5,519.0
FEMA	WX Tokyo	8,903.0
Hurricane Puerto Rico Net	WX Tokyo	13,344.0
Intl Red Cross Switzerlnd	W-CAR	3,455.0
NORAD	W-CAR	5,520.0

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90,000.0

Sheet1

SORT AND SAVE MACROS for Lotus 1-2-3 R 2.3 and later

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```
{windowsoff}{paneloff}
/dsrq
{GOTO}a15~
/dsd.{R}{END}{D}~pa15~a~sb15~a~g
/c{END}{D}~d15~
{R}
/c{END}{D}~c15~
{R}
/dsrd.{R}{END}{D}~p~a~sd15~a~g
{HOME}
/fs~r
{windowson}{panelon}
{beep}
```

```
{windowsoff}{paneloff}
/dsrq{GOTO}c15~/dsd.{END}{D}{R}~p~a~
s{R}~a~g/c{END}{D}~{L}~{R}/c{END}{D}~
{L 3}~{L 3}/dsrd{END}{D}{HOME}{D 14}.
{END}{D}{R}~p~a~s{R}.~a~g{HOME}/fs~r
{windowson}{panelon}
{beep}
```