The SKYHOOK

HOLIDAY CITY AMATEUR RADIO CLUB

Christopher Bourlokas, KD2SOP

Our FCC License test examiners (Larry K2QDY, John KQ4WR, Steve N2WLH and Tony KD2GSO) are proud to introduce our newest and youngest member, Chris Bourlokas, now holder of call sign KD2SOP granted August 20, 2019.

HAPPY BIRTHDAY TO

Janice Loscalzo

Jeanne Poray

HAPPY ANNIVERSARY TO:

Doug & Jeanne Poray

Get-Togethers

The schedule for our Get-Together group is:

Sept. 2 Lunch at Holiday City Diner

Sept. 9 Breakfast at Holiday City Diner

Sept. 16 Lunch at Lisa's

Sept. 23 Breakfast at Holiday City Diner

Sept. 30 Lunch at Holiday City Diner

The Holiday City Diner is on Mule Road near Davenport Rd, and Lisa's is a pizzaria restaurant in the strip mall on Route 37 opposite the North end of Mule Road. All friends of HCARC are welcome to join in for lunch and/or breakfast.

License Exams

Our VE team gives exams for Technician, General and Extra Class licenses, at 6:30pm on the 2nd Wednesday of each month, unless there are no applicants.

Be sure to call Larry Puccio at 732-349-2950 for an appointment.

NEXT REGULAR MEETING:
Thursday September 5th at 7:00 PM
Bldg A, Meeting Rm. #1
Holiday City South Clubhouse
Santiago Drive at Mule Road
Toms River, NJ

Ocean County ARES® News

September, 2019

Narrow Band Emergency Message System

Narrow Band Emergency Message System (NBEMS) is a suite of software programs designed for fast, accurate, and error-free emergency message handling. It was developed by an Amateur Radio Emergency Services section originally for use with VHF and UHF for local communications. The original applications have been expanded to HF allowing Section-wide, State-wide and Regional communication by amateur radio emergency communications teams.

Why Digital Emergency Communication?

The evolving emergency management processes demands more information transfers at faster rates of speed that are error-free through radio communications. Emergency management information consist of detailed facts, lists, and numerical data that cannot effectively be communicated by traditional voice communications. Even the military has shifted communication modes for detailed information to digital radio communication including combat teams.

Basics Of NBEMS

The Narrow Band Emergency Message System (NBEMS) suite of software uses the MT63 protocol that transmits data utilizing 64 audio tones simultaneously in bandwidths of 500 Hz, 1000 Hz, or 2000 Hz. MT63-2kL. The MT63 at 2000 Hz Long bandwidth is preferred in a weak or strong signal environment on VHF/UHF FM, including simplex and repeaters. For HF, MFSK32 is the go-to mode in a 500 Hz window.

The MT63 tones can be created by software operating on personal computers, tables, and cellular telephones. The tones are transferred to amateur radios from PC, tablet or cellular telephone using interface devices or simple audio coupling of the device speaker to radio microphone or vice versa on receiving.

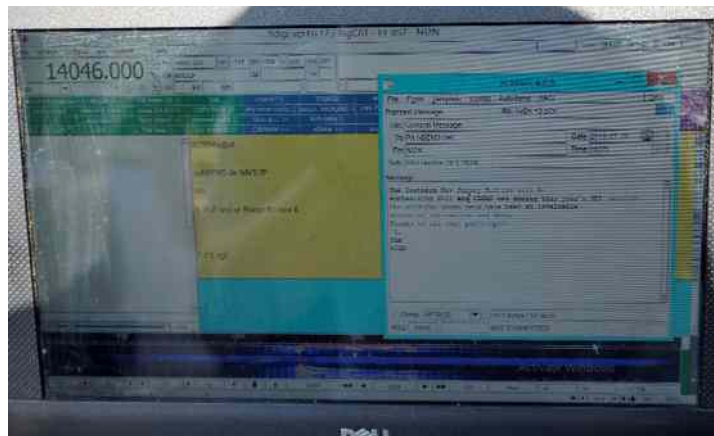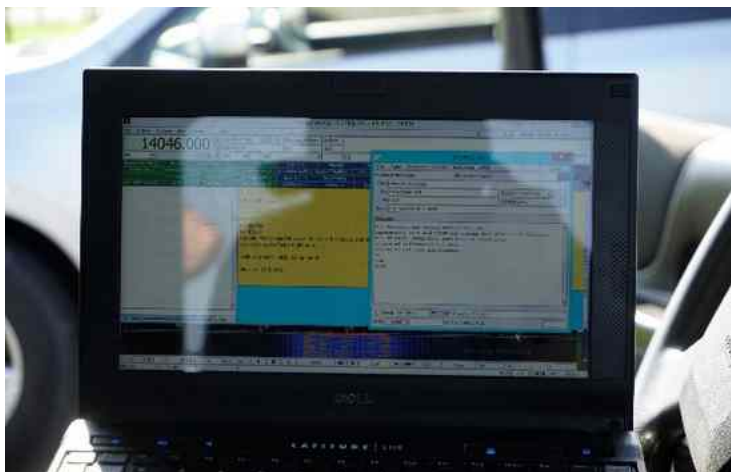The optimum station setup for a net control station,

Emergency Operations Center or Official Emergency Station would use as interface device to ensure accuracy by eliminating possible interference from background noises. Audio coupling could be used in quieter environments or tactical operations even with handheld transceivers (HTs). Commercial interfaces, such as SignaLink or RIGblaster, are commonly used, while homebrew versions work effectively.

The preferred computer-based software, downloadable free, is the Fast Light Digital software suite (Fldigi). The Fldigi software is available for most computer operating systems, Windows, Linux, Mac, and Android. The Fldigi software contains multiple digital communications programs including Narrow Band Emergency Message System (NBEMS). The NBEMS software operates in conjunction with FLMSG that can create and receiving multiple message formats, including ARRL Radiogram, General Message ICS-213, plain text, and weather reports. Addition served agencies message forms are available for upload to the software for the American Red Cross and hospitals applications.

Preparing a typical Radiogram using NBEMS consist of 1) opening Fldigi and FLMSG software, 2) selecting Radiogram and 3) typing in required data. The "check and formatting of words" to five per line is automatic. When the message is completed, it can be immediately sent or saved for later net transmission. The process is similar for other message formats, such as the FEMA ICS-213 form or plain text.

Receiving messages is simply a process of allowing the software to receive the message data in Fldigi and automatically transferring data to FLMSG, where it recognizes the message format. The message is provided on the originally composed message form for saving or printing.

The following are photos of typical field operation screens with messages.

How Do You Start?

If you are planning to use a computer to operate the software, the first step is to download and install the current version of the free Fldigi and Flmsg software from https://sourceforge.net/. Since initial setup requires multiple setting it is recommended to review and follow the Fldigi software has basic and advance help information for Fldigi and NBEMS.

There are multiple "You Tube" videos and online resources for Fldigi and NBEMS. Some of these resources are listed below. Caution must be used in applying older information that does not align with current version of the software that is constantly being enhanced. The "Beginner's Guide to Fldigi" for current version is an essential resource, available from the "Help" drop down menu.

However, if you'd rather attend a demonstration, members of the Ocean County ARES team will be demonstrating Narrow Band Emergency Message System (NBEMS) at the SNJ Section Convention & Hamfest. The Gloucester County Amateur Radio Club is sponsoring the Southern New Jersey Section Convention & Hamfest on Sunday September 15th at the Gloucester County 4H Fairgrounds, 235 Bridgton Pike (Route 77&), Mullica Hill, NJ 08062

CLUB COMMITTEES

Refreshments:	Marge KD2LNT	pearl1122@comcast.net
Webmaster:	Steve N2WLH	N2WLH@yahoo.com
Programs:	(open)	
Sunshine:	Dave WA2DJN	WA2DJN3@verizon.net
Field Day:	Larry K2QDY	732-349-2950
VE Sessions:	Larry K2QDY	732-349-2950
Membership:	Doug KC2TZC	732-928-2316

[Continued from page 3]

Where can more Information be located?

Article: "NEBEMS – A Digital Emcomm Tool" August 2009 QST,

Power Points on NBEMS & ARES:

http://www.arrl.org/files/file/On%20the%20Air/Tutorials/Introduction_to_NBEMS_ARRL.pdf

You Tubes:

https://www.youtube.com/watch?v=FKZapCXJdAw
https://www.youtube.com/watch?v=jvOJFFkYlAs
https://www.youtube.com/watch?v=DNBJnDHCw_M
https://www.youtube.com/playlist?list=PL0-gH_7Nm60Z6p2neDg9pZxIbGPPkDNmh

Software:

https://sourceforge.net/

Nets:

➢ PANBEMS ~ Sunday 0800 local on 3.583 Mhz.

➢ NJNBEMS ~ Sunday @ 0930 local on 3.5845 Mhz.

➢ NYNBEMS ~ Saturday @ 0800 local on 3.584 Mhz.

➢ Local SNJ check ARES Connect, examples OC ARES periodically conducts digital training nets

The following provided input for this article WX2NJ and NJ2N, plus numerous members of Ocean County ARES through practice net exchanges of digital messages.

73 de WX2NJ

Bob Murdock

Ocean County Amateur Radio Emergency Service® EC

The New Jersey QSO Party

Sponsored by The Burlington County Radio Club

K2TD September 21 Noon to 1159 PM EDT.

The 2019 New Jersey QSO Party will take place for one day only in EDT, September 21, 2019 Noon until 1159 PM (1600 UTC to 0359 UTC).

This year there are a few changes in the rules and scoring. For the first time, digital modes are allowed.

Each digital or CW contact will count 2 points and phone contacts remain 1 point.

In addition, the power multiplier is now X1 for 150 watts and above, X2 for less than 150 watts, and X4 for QRP (5 watts or less at ALL times during the NJQP).

There will be no bonus station in 2019. These changes reflect our experiences and observations made over the last few years. Comments both before and after the NJQP are solicited. Please review the complete rules

http://www.k2td-bcrc.org/njqp/njqp_rules.html .

Let's have a good turnout and have all 21 counties active this year.

We hope to see YOU on the air!

Submit Cabrillo logs to njqp@comcast.net

More information go to

http://www.k2td-bcrc.org/njqp/njqp_rules.html

3DA0AO Eswatini

3DA0AO Eswatini, AKA Swaziland.

Hopefully will be on 160, 80, 40, 30, & 20m

from Sept 15 to Sept 30.

CW frequencies 3523, 7010, 10105, & 14023 kHz,

listening up 2-10 kHz.

Also FT8 on 3585, 7056, 10131 & 14090 KHz.

listening up 2-10 kHz.

He also intends to try SSB and RTTY.

Check out his website.

Growing Up In Hillside, NJ

By Urb LeJeune, W1UL

I was born at a very young age and grew up in Hillside, NJ, which was a small town nestled between Newark and Elizabeth. At the time I was growing up, Hillside could socioeconomically be described as upper-lower class. The town was sparsely populated, and urban sprawl bypassed this small town primarily inhabited by first and second-generation Italians, Hungarians and Poles. The town's cultural centers were the Italian American Hall, the Hungarian American Hall and, you guessed it, the Polish American Hall.

Hillside's claim to fame was Phil Rizzuto, the legendary New York Yankee hall of fame shortstop and Yankee broadcaster for 40 years. "Holy cow," was Phil's favorite expression when something really exciting happened. Phil lived in the Westminster section of town, a small affluent enclave bordering on Elizabeth.

The Elks Lodge sponsored a baseball league. It was somewhat of a precursor of the Little League with a major difference; anyone could play in the league if they were not on the high school varsity team. The Elks would kick off the season with a picnic where they served draft birch beer. What a treat! Phil would always come to the picnic and hang out with the kids for the entire picnic. One-year Phil brought Yogi Berra with him. I was not a Yankee fan, but I was a catcher. I thought I had died and gone to heaven being able to talk to arguably the best catcher in major league baseball. At the end of the season, when the League gave out the trophies, Phil was there to distribute them with a kind word. They sure don't make many major league players like that anymore.

The Polish hall had a 14-inch TV set on top of a high cabinet. This was decades before the advent of color TV. Milton Berle, AKA "Uncle Miltie", on Tuesday night, and the fights on Friday filled the large room to standing room capacity to watch the TV set. If Joe Louis was boxing you had to arrive at the club at least two hours before the fight to get a seat.

I lived in a farm house at the very edge of town. In the back of the farm were humongous wetlands which was called a swamp in those days. One year my combination birthday and Christmas presents were a pair of binoculars, amplification factor of about two, and a Peterson's Bird Field Guide. I spent many hours exploring the swamp and bird watching, filling up several notebooks with sightings.

When not writing newsletter articles, Urb can usually be found working on his ham radio test preparation website, http://ham-cram.com. The site has three distinguishing characteristics:

1. We don't study incorrect answers.

2. We only study the questions most likely on the FCC test.

3. It's free.

73 Urb W1UL 69 Years a Ham. 609-937-5487

JSARS Hamfest

Sunday, Sept. 15th, 2019 at Riverwood Park

Riverwood Drive & Whitesville Road

Toms River, New Jersey 08753

Talk-in: W2DOR/R 146.910 (-) PL 127.3

Featuring indoor and outdoor spaces, tailgating, door prizes, and VE testing.

Doors open for vendors at 7:00 AM, buyers at 8:00 AM.

Admission: Buyers $5, Tailgaters/tables $15/space incl 1 admission

VE Exams at 10:00 AM

For VE related questions email KD9BVC@AOL.com or call Tom at 732-403-0448.

To reserve a space in advance or for questions, please call Tom KD9BVC at 732-403-0448.

http://www.jsars.org

Larry Puccio K2QDY Worked:

Date	Time	Mode	Freq	Call	Entity
8/24	00:40	CW	7.005	OJ0O	Market Reef
8/23	20:52	CW	14.022	EA8TL	Canary Is.
8/23	20:39	CW	14.014	EG5VCE	Spain
8/23	06:49	CW	7.014	4A2MAX	Mexico
8/23	00:44	CW	7.010	EA3KE	Spain
8/22	21:01	CW	14.009	UT1LF	Ukraine
8/22	20:54	CW	14.006	IK1JJM	Italy
8/22	20:48	CW	14.002	E74UK	Bosnia-Herze.
8/22	20:41	CW	14.010	4LY30WAY	Lithuania
8/22	00:22	CW	7.026	I1MMR	Italy
8/21	20:26	CW	14.013	LZ304AE	Bulgaria
8/21	20:15	SSB	14.218	JT1CO	Mongolia
8/21	20:12	SSB	14.214	UX2IQ	Ukraine
8/21	20:03	CW	14.015	AN7AL	Spain
8/21	00:50	CW	7.009	LY30WAY	Lithuania
8/18	20:52	CW	14.026	HA4FF	Libya
8/15	22:05	CW	14.012	CE3ML	Chile
8/15	21:59	CW	14.007	XQ3SK	Chile
8/09	20:49	CW	14.011	LZ1NK	Bulgaria
8/09	20:21	CW	14.018	I74ZZB	Italy
8/09	20:17	CW	14.014	RU1AC	Euro. Russia
7/30	20:15	CW	14.030	I1ULJ/8	Italy
7/30	19:42	CW	14.016	TM75GRV	France
7/30	19:37	CW	14.009	F5NTV	France
7/28	21:17	CW	14.007	CT1DJE	Portugal

Grid Squares Aren't Square

Well, you probably knew that. But I still wonder why something that isn't flat and isn't even a rectangle is called a square. Your "grid square" is, however a handy way of saying "Where on Earth" you are.

Here's what it really means.

It's the Maidenhead Locator System, or "LOC", proposed by G4ANB in Maidenhead England in April 1980.

LOC maps the Earth as areas bordered by lines (technically arcs) of longitude (eastward from the 180 degree meridian) and latitude (northward from the South Pole). The second, fourth, and sixth characters define the longitude of the East border of the area, while the first, third, and fifth characters define the latitude its South border.

There's no rounding off. Either you're within one area or another.

For less precision, use just the first two, or four characters.

For high precision, more characters can be added on, but 6 characters are enough to define an area 2.9 miles South-to-North by less than 5.8 miles West-to East.

Here's how to calculate the LOC code from Latitude and Longitude:

First, for the latitude part, start with 90, and either add the North Latitude or subtract the South Latitude.

Then, for the longitude part, start with 90, and either add half of the East Longitude or subtract half of the West Longitude.

Now assign the 2nd character (A=0, B=10, C=20, etc.) and the 4th character for the latitude part of the code,

and the 1st character (A=0, B=10, C=20, etc.) plus the 3rd character for the longitude part of the code.

Finally, the 6th and 5th characters likewise indicate the number of 24ths represented by the decimal parts.

For New Jersey, you should now have a latitude value of roughly 130, and a longitude value of roughly

In morse code, (or RTTY, etc.) the correct syntax for a 6-character grid is "LOC ", followed by the "grid square", such as "LOC FM29VX".

Some models of Garmin GPS receivers can give you Maidenhead LOC directly.

Of course, we don't require our members to have badges, but if you'd like one similar to the one shown above, with your own name and callsign, call Capital Engraving at 1-800-628-4985 after 1PM M-F. Use your credit card to pay. Cost is $13.25 plus $4 S&H.

"Al Ross WA7UQE will take care of you and put your callsign and name on the badge. "

Some DX Opportunities

Callsigns shown in alphanumeric order
Mode codes: 8 = JT8, C = CW, D = Digital, J = JP4, P = PSK31, R = RTTY, S = SSB, T = SSTV.
Bands: "Low" usually means 160, 80 & 40m.
Many thanks to NG3K and to the RSGB, ARRL, DXW, TDDX & QRZ for the data.

Start	Finish	Call	Entity	IOTA	Bands	Modes	QSL Via	Grid	Miles	Dir
Sep 29	Oct 13	D44TWO	Cape Verde Is	AF-005	160-10m	8,D,R,c	M0OXO	HK86aa	3430	ESE
Sep 29	Oct 05	5H3CA	Tanzania	AF-054	160-10m	C,S	RC5A	KI93sa	7787	E
Sep 29	Oct 05	5H3RRC	Tanzania	AF-054	160-10m	C,S	RC5A	KI93sa	7787	E
Sep 08	Sep 21	9G5QU	Ghana	AF-084	40-20m	C,8,4	N4GNR Dir	IJ95vm	5132	E
Jul 01	Dec 13	BV0ME	Taiwan	AS-020	80-10m	8,S	BU2EQ	PL15aa	7831	NNW
Sep 07	Sep 13	EA6/IU2IBU	Balearic Is	EU-004	80-10m	S	LoTW	JM19mm	3968	ENE
Sep 20	Oct 03	SV9/PH2M	Crete	EU-015			LoTW	KM25hj	5116	ENE
Sep 02	Sep 12	OY/DL1ZBO	Faroe Is	EU-018		S,C,D	DL1ZBO	IP60oa	3133	NE
Sep 02	Sep 12	OY/DL5FF	Faroe Is	EU-018		S,C,D	DL5FF	IP60oa	3133	NE
Sep 02	Sep 12	OY/DL2VU	Faroe Is	EU-018		S,C,D	DL2VU	IP60oa	3133	NE
Sep 21	Sep 27	MD/OP2D	Isle of Man	EU-116	160-6m	S,C,8,R	M0URX	IO74sa	3285	NE
Sep 24	Oct 08	FP/KV1J	StPierre&Miquel	NA-032	160-6m	S,R,8,c	LoTW	IO63aj	3154	NE
Sep 21	Oct 07	V31US	Belize: OrangeWal	NA-073	80-20,10m	S,D	V31DX	EK58nc	1745	SW
Sep 08	Sep 20	V26K	Antigua	NA-100	80-10m	C	LoTW	FK97cc	1747	SSE
Sep 06	Sep 09	K7TRI	USA: OregonCoast	NA-211	40-17m	C,S	See Info	CN75xw	2511	WNW
Sep 06	Sep 22	TK19IOTA	Corsica	Note*		C	LoTW	JN42nd	4165	ENE
Sep 14	Sep 25	T88 ++	Palau	OC-009	160-6m	C,S,R	Home Call	PJ77fi	8695	NW
Sep 12	Sep 20	T88MK	Palau	OC-009	160-6m	C,S,D,f	JO3LVG	PJ77fi	8695	NW
Sep 06	Sep 09	T88PB	Palau	OC-009	80-10m		LoTW	PJ77jm	8674	NW
Sep 08	Sep 16	E51SFS	South Cook Is	OC-013	40-10m	C,8	DH5FS	BG08cs	6927	WSW
Sep 02	Sep 09	3D2VR	Fiji	OC-016	80-10m	S	DD0VR	RH92ma	7886	W
Sep 23	Sep 27	3D2VR	Fiji	OC-016	80-10m	S	DD0VR	RH92ma	7886	W
Sep 06	Sep 15	T30L	West Kiribati	OC-017	160-6m	C,S,R,8	LoTW	RI88ep	7303	WNW
Sep 13	Sep 15	KH6/DL8UI	Hawaii	OC-019		S	DL8UI	BL11ch	4958	WNW
Sep 16	Sep 25	C21W	Nauru	OC-031	160-6m	C,S,R,8	LoTW	RI39am	7789	WNW
Aug 23	Sep 02	H44MI	Solomon Is	OC-047	80-10m	S,8,r	LoTW	QI92ma	8495	WNW
Aug 23	Sep 02	H44MS	Solomon Is	OC-047	80-6m*	S,R,8	DL2GAC	QI92ma	8495	WNW
Sep 16	Sep 21	A35J4	Tonga	OC-049	80-10m	S	DD0VR	AG29ma	7693	W
Sep 24	Oct 06	A35JT	Tonga	OC-049	160-6m	S,C,8,R	LoTW	AG28hw	7718	W
Sep 20	Sep 25	E51SFS	South Cook Is	OC-083	40-10m	C,8	DH5FS	BH01cd	6823	WSW
Sep 15	Sep 22	WH0RU	Mariana Is	OC-086	40-10m	C,S,R	LoTW	QK45ae	7762	NW
Sep 09	Sep 16	5W0VR	Samoa	OC-097	80-10m	S	DD0VR	AH36xe	7240	W
Sep 09	Sep 16	5W0VR	Samoa	OC-097	80-10m	S	DD0VR	AH36xe	7240	W
Aug 01	Sep 01	HC2/IZ1HGP	Ecuador	SA-034	160-6m		LoTW	FI07bt	2935	S
Aug 23	Oct 04	J68HZ	St Lucia	SA-034	40-6m		LoTW	FK94ma	1966	SSE
Sep 25	Sep 30	JD1BNA	Minami Torishima	SA-034	160-17m	C,S,8	JL1UTS Dire	QL17hc	7236	NNW
Sep 15	Sep 30	3DA0AO	Eswatini (Swaziland)		80-10m	C,R,8	HA5AO Dir	KG53sa	8192	ESE
Jul 27	Sep 29	5E6A	Morocco				EA7FTR	IM63ox	3660	ENE
Sep 29	Oct 05	5H3MB	Tanzania		80-10m	C,S,R	IK2GZU	KI71gc	7609	E
Sep 01	Sep 30	6O7O	Somalia		160-10m	C,s,d	LoTW	LK40ma	7438	ENE
Aug 31	Sep 17	9U3TMM	Burundi		60-6m	8,S,R	LoTW	KI47ma	7057	E
Sep 28	Oct 11	A82X	Liberia		160-10m	C,S,R	OQRS/LoTW	IJ47ma	4503	ESE
Sep 28	Oct 11	A82Z	Liberia		160-10m	8	OQRS/LoTW	IJ47ma	4503	ESE
May 02	Oct 31	DM460DA	Germany		6m		DL9GFB	JO31aa	3768	NE
Sep 13	Sep 16	EA9/DL2JRM	Ceuta & Melilla		80-10m		DL2JRM	IM76hq	3647	ENE
Sep 02	Sep 15	EX6QP	Kyrgyzstan		80-10m	C,S,R,8	ClubLog OQR	MN72gu	6395	NNE
Sep 12	Sep 18	HB0/DJ2AX	Liechtenstein		80-10m	C,S,D,R	LoTW	JN47sa	4026	NE
Sep 12	Sep 18	HB0/DL4APJ	Liechtenstein		80-10m	C,S,D,R	LoTW	JN47sa	4026	NE
Sep 12	Sep 18	HB0/DL5ARG	Liechtenstein		80-10m	C,S,D,R	LoTW	JN47sa	4026	NE
Aug 01	Sep 29	LY30A	Lithuania				LY5A	KO15kg	4260	NE
Sep 12	Sep 22	PA75OMG	Netherlands				see QRZ.com	JO23vk	3698	NE
Sep 07	Sep 12	PJ4/K5SL	Bonaire	SA-006	40-17m	C,s(17m)	K5SL	FK52ne	1949	S

*Note: Corsica islands EU-100, EU-104 & EU-164 by F8BBL as TK19IOTA

September

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 Get-Together Lunch at HC Diner	3 Labor Day	4	5 HCARC MEETING 7pm	6	7
8	9 Get-Together Brunch at HC Diner	10	11 License exams if needed; see page 3; 911 Day	12	13	14 ARRL September VHF Contest
15 Contest continues	16 Get-Together Lunch at Lisa's	17	18	19	20	21 NJ QSO Party
22	23 Get-Together Brunch at HC Diner	24	25	26	27	28 CQWWDX RTTY Contest
29 Contest continues; 5780 starts at sundown	30 Get-Together Lunch at HC Diner;					