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## Welcome!

Dear Fellow Amateur,

Congratulations on becoming a member of the Grand Strand Amateur Radio Club (GSARC). Attached you will find the latest copy of the official GSARC Handbook, which will guide you through the many aspects of our club and its membership.

The primary mission of the GSARC is to provide Public Service Communications support for the communities in which we live and work. Whether you're a permanent resident, regular visitor, or vacation guest, there are many club activities for you to participate in, and programs that would benefit from your ideas and support.

If you would like to volunteer your time in support of our many committees and programs, please contact one of our club officers, and someone will contact you.

Again, thanks for becoming a member! We look forward to a fun and productive year/

Tom Hastie, KM4BYO  
President

James Grant, KJ4CMN  
Vice-President

Larry Heinz, W2FTV  
Secretary

David Goodman, KA3JRM  
Treasurer

Gordon Mooneyhan, W4EGM  
Public Information Officer

## Club Officer and Committee Heads

### Club Officer and Committee Heads

President	Tom Hastie, KM4BYO	<a href="mailto:km4byo@w4gs.org">km4byo@w4gs.org</a>
Vice Pres.	James Grant, KJ4CMN	<a href="mailto:kj4cmn@w4gs.org">kj4cmn@w4gs.org</a>
Secretary	Larry Heinz, W2FTV	<a href="mailto:w2ftv@w4gs.org">w2ftv@w4gs.org</a>
Treasurer	David Goodman, KA3JRM	<a href="mailto:ka3jrm@w4gs.org">ka3jrm@w4gs.org</a>
PIO	Gordon Mooneyhan, W4EGM	<a href="mailto:w4egm@w4gs.org">w4egm@w4gs.org</a>
Trustee	Jason Morgan, K4SHP	<a href="mailto:k4shp@w4gs.org">k4shp@w4gs.org</a>
VE Coordinator	Bob Froelich, KK4KSY	<a href="mailto:kk4ksy@w4gs.org">kk4ksy@w4gs.org</a>
BeachFest Chair	Edward Jordan, KF4ECK	<a href="mailto:kf4eck@w4gs.org">kf4eck@w4gs.org</a>
BeachFest Co-Chair	Buddy Brown	<a href="mailto:kd4uxm@w4gs.org">kd4uxm@w4gs.org</a>
Field Day Chair	Frank Rick Dux, WB4LZW	<a href="mailto:wb4lzw@w4gs.org">wb4lzw@w4gs.org</a>
Field Day Co-Chair	Larry Heinz, W2FTV	<a href="mailto:w2ftv@w4gs.org">w2ftv@w4gs.org</a>
Marathon Chairs	Bob Froelich, KK4KSY Matt McGuire, AF4UZ	<a href="mailto:kk4ksy@w4gs.org">kk4ksy@w4gs.org</a> <a href="mailto:af4uz@w4gs.org">af4uz@w4gs.org</a>
Webmaster	Bob Gagliardi, N4XML	<a href="mailto:n4xml@w4gs.org">n4xml@w4gs.org</a>

## Meetings

### Meetings

Regular club meetings are held on the first Monday of each EXCEPT January and July. Meetings are held at the Myrtle Beach Fire Station #6, 970 38th Avenue North, Myrtle Beach, at 7:00 PM

(33.7229250°N -078.8647694°W)



In addition to the regular meetings, each January we hold our Annual Dinner Meeting.

## Breakfast

# Breakfast

Club members meet for breakfast each Saturday morning at the Golden Coral Steakhouse at 868 Oak Forest Lane in Myrtle Beach (*This is the Golden Corral near the Wal-Mart off Seaboard St. (Vicinity US 501 and Seaboard St.)*) Golden Corral opens at 0730 so plan on being there between 0745-0800. They have plenty of room for us. Everyone is welcome to attend!

Hope to see many of you there.

## GPS Coordinates

33.70496662512927°N -78.91138315200805°W DD (Decimal Degrees)

33° 42' 17.88 N 78° 54' 40.979 W DMS (degrees, minutes, seconds)



## Club Repeaters

145.110 MHz

**PL Tone 85.4 Hz**

Location	Conway, SC.
Transmitter	Vertex VXR-7000
TX Output Power	~50 Watts
Power Delivered to Feedline	~33 Watts
RF power @ Antenna	~19.23 Watts [Calculated]
Receiver	Vertex VXR-7000
Pre-amp	Advanced Receiver Research [ARR] GaSFET
Duplexer	6 cavity. 2 Bp, 4Bp/Br
Controller	Computer Automation Technologies [CAT] 300 DX
DC power	Repeater Internal Power Supply. Site also has a backup generator
Antenna Height	Approx 400' Above Ground
Antenna	Decibel DB-224
Advertised Gain	6 dBd
Feedline	Approx 470' 7/8 foam, with 40 1/2" Superflex top jumper – NOTE: Antenna and feedline are diplexed to the 145.11 & 444.675 repeaters
VHF ERP	Calculated to be ~76.56 Watts

## Club Repeaters

444.675 MHz

**PL Tone 85.4 Hz**

Location	Conway, SC.
Transmitter	ICOM Repeater
TX Output Power	~50 Watts
Power Delivered to Feedline	~43 Watts
RF power @ Antenna	~16.18 Watts [Calculated]
Receiver	ICOM Repeater
Pre-amp	Advanced Receiver Research [ARR] GaSFET
Duplexer	4 cavity. 4 Bp/Br
Controller	Internal ICOM
DC power	Internal ICOM
Antenna Height	Approx 400' Above Ground
Antenna	Comprod [Mounted on Tower South Leg]
Advertised Gain	9 dBd
Feedline	Approx 470' 7/8 foam, with 40 1/2 Superflex top jumper – Note: Ant & feedline are diplexed to the 145.11 & 444.675 repeaters
UHF ERP	Calculated to be ~128.52 Watts

147.120 MHz

**PL Tone 85.4 Hz**

Location	Maisons-su-mer Condominium complex, Lake Arrowhead Rd.
Transmitter	ICOM Repeater
TX Output Power	~25 Watts
Power Delivered to Feedline	~15.5 Watts
RF power @ Feedline	~12.71 Watts [Calculated]
Antenna	Hustler G6-270R
Antenna Height	Approx 268' (26 Floors)
Receiver	ICOM Repeater
Pre-amp	Advanced Receiver Research
Duplexer	TX/RX Systems, 6 cavity 6 Bp/Br

## Club Repeaters

Controller	ICOM Internal
Power	Internal ICOM
Antenna Height Above Ground	Approx. 268 (approx. 26 floors)
Antenna	Hustler G6-270R
Advertised Gain	6 dBd Gain VHF – Pattern Offset – [Shading to East]
Feedline	LMR 400 [Approx 75']
VHF ERP	Calculated to be ~50.6 Watts

146-805 MHz

**PL Tone 85.4 Hz**

Location	Commercial Tower on Starbuck Lake Rd. Murrells Inlet, SC
Transmitter	Motorola MSF5000
TX Output Power	~100 Watts
Power Delivered to Feedline	~66 Watts
RF power @ Antenna	~37.89 Watts [Calculated]
Receiver	Motorola MSF5000
Pre-amp	None
Duplexer	4 cavity. Bp/Br
Controller	Motorola MSF5000
DC power	Motorola Internal Power Supply. Site also has an AC generator
Antenna Height	Approx. 475" aboveground
Antenna	Comprod
Advertised Gain	8 dBd
Feedline	Andrew 7/8 [Hardline]
VHF ERP	Calculated to be ~239.07 Watts



## Nets

# Nets

### GSARC Nets

The GSARC holds it weekly 2 meter/440 nets as follows:

**Every Tuesday – 8:00 PM – 440 Net (444.675 MHz PI Tone 85.4 Hz) Every  
Thursday – 8:00 PM – 2 Meter Net (146.805 MHz PI Tone 85.4 Hz) Every  
Saturday – 8:00 PM – 2 Meter Net (147.120 MHz PI Tone 85.4 Hz) Every  
Sunday – 8:00 PM – 2 Meter Net (145.110 MHz PI Tone 85.4 Hz)**

All Amateurs are encouraged to participate.

All Amateurs are also encouraged to be Net Control Operators. The experienced to be gained is invaluable, and it's a lot of fun! You may volunteer by contacting the Net Manager – David Reams by email [kj4de@w4gs.org](mailto:kj4de@w4gs.org) or at the beginning of any net.

### Other Area Nets

Be sure to check in to these other area nets as well – they need your support.

<b>Dillon Net</b>	Every evening – 9:00 PM	146.745 MHz
<b>PALS Linked Net</b>	Every evening – 9:00 PM	145.470 MHz

## Net Control Preamble

### Net Control Preamble

"This is [YOUR CALL], net control calling 'CQ' to the Grand Strand Amateur Radio Club (440 MHz or 2 meter) net. My name is \_\_\_\_\_, and I'm located in \_\_\_\_\_. Our Net schedule is as follows:

Our nets meet on the following frequencies and nights at 8:00 pm local time with PL tone 85.4; Tuesday on 444.675 MHz, Thursday on 146.805 MHz, Saturday on 147.120 MHz and Sunday on 145.110 MHz. For more information about our club go to our website, w4gs.org.

Skywarn or ARES may supersede these nets in times of emergency. All licensed amateurs are welcome to check in. Before we begin, do we have any EMERGENCY or FORMAL TRAFFIC, BULLETINS, or ANNOUNCEMENTS?"  
(Ask twice before going forward)

"This is a directed net. Please direct all comments to the net control station."

*Roll Call Take check-ins in the following order.*

**"Any short time, mobile or maritime stations"**  
*Manage short time, mobile, maritime stations accordingly*

**"Any ECHOLINK STATIONS" Sunday night only**

And now for the regular roll call. Please check in by your proper alphabetical group, this is the first letter after your number. Please list if you will remain on frequency for the rag chew portion of the net. You may list amateur equipment you want to purchase or an item of that you are selling as long as it is not from your business. Please direct all comments to the net control station."

*Note those stations staying for rag chew.*

**A - D -----Alpha through Delta**  
**E - H -----Echo through Hotel**  
**I - L -----India through Lima**  
**M - P -----Mike through Papa**  
**Q - Z -----Quebec through Zulu**  
**All through the alphabet for any late stations, any order."**

**"All stations not wishing to stay for the rag chew portion of the net may secure at your pleasure. Thank you for checking in."**

*Proceed with rag chew. Check for late stations at the conclusion.*

**"Before we conclude, are there any additional comments or business for the net? Please call now."**  
*Manage any additional comments, check-ins, or traffic as required.*

*Now Close the net*

**"I would like to thank everyone for participating. I am now return this repeater to normal amateur use. "Give your call and clear."**

*Call the net manager or assistant if they check in and give the net report. Include in the count the piece of traffic you are giving them as part of your count.*

*NOTE: The report you are giving counts as "1" and other pieces of traffic are counted whenever there is a number attached to a message. General announcements are typically not counted.*

*The report format is as follows:*

**"This is [YOUR CALL]; here is my Net Report for [TODAYS DATE] / My Report # \_\_\_\_\_. I had [TOTAL CHECK-INS] & [TOTAL PIECES OF TRAFFIC].**

*The Net Manager will repeat your call, your report#, the report total check-ins & total pieces of traffic.*

*A typical report could read simply: "ab4cde 1Jan15 R#1 15/1"*

**REMEMBER TO USE NORMAL CONVERSATION WHEN USING THE REPEATER.  
OUR SYSTEM IS MONITORED.**

[www.w4gs.org](http://www.w4gs.org)

## **WWW.W4GS.ORG**

The official website of the Grand Strand Amateur Radio Club, w4gs.org is packed full of useful information. Navigation is easy, with a multi-level navigation bar at the left or top of each page.

**Website Search** – Search for a specific items at the site

**Site Map** – View a tree of all available pages.

**Net Control Schedule and Preamble VE  
Information and Testing Schedule**

**Classified Section** – Post items for sale or wanted

**News Letters** – Past and current

**Club Pictures** – Pictures from past events

**ARES and Skywarn**

**Links** – Favorite links to many Amateur Radio sites

***And much, much more !***

## Skywarn

During severe weather, the club's repeaters will be utilized by SKYWARN for a directed net on the following frequencies:

Primary	<b>146.655</b> MHz
Secondary	<b>147.090</b> MHz.

Once SKYWARN has been activated, all amateurs are encouraged to sign in to the net and report any sightings of severe weather to the SKYWARN Net Control. Whichever repeater is used will remain dedicated to the SKYWARN Directed Net until released by SKYWARN. Other club repeaters will remain available for normal amateur use.

In addition to the 2meter SKYWARN net, a SKYWARN Net Online is also available for those who witness severe weather and do not have their radio handy. The Online Net will be brought up any time SKYWARN is activated and will be moderated by a SKYWARN Net Controller.

Remember, we are the eyes and ears in our area for the National Weather Service! Please participate.

### What to Report

1. **TORNADOES**- You may not see the funnel itself on the ground. Look for dust or debris on the ground underneath a funnel or wall cloud. Powerline flashes at night may indicate a tornado.
2. **FUNNEL CLOUDS**- Look for organized, sustained rotation.
3. **WALL CLOUDS** - Should be persistent (tens of minutes) and organized. Rotating wall clouds are extremely dangerous.
4. **HAIL** - 3/4" diameter or larger.
  - Report hail size and intensity.
  - Report hail size in terms of well-known objects (coins, fruit) or in inches.
  - Avoid using the term "marble size".
5. **DAMAGING WINDS**- ONLY winds in excess of 58mph or 50 knots. Give best estimate of wind speed.
6. **STORM DAMAGE** - Damage reports are extremely important. Report any damage caused by hail, wind, flooding or lightning.
- . **FLOODING**- Report flooding that blocks streets, roads or highways. Report flooding that is a threat to life or property.

## Skywarn

8. **LIGHTING** - Report any damage or injuries caused by lightning.
9. **WINTER WEATHER** - Report any significant accumulation of snow or ice.  
Report any significant damage caused by snow or ice.

## NOAA Weather Radio Frequencies

Wilmington	162.550
Florence	162.550
Myrtle Beach	162.400
Lumber Bridge	162.525

## CONTACTS

Horry County SKY WARN Coordinator  
Jason Morgan, K4SHP

[k4shp@w4gs.org](mailto:k4shp@w4gs.org)