



The RELAY))) September 2026

The Official Publication of the Arrowhead Radio Amateur Club
A.R.A.C. Inc. P.O. Box 7164 Duluth MN 55807-7164 <http://www.thearac.org> Dues: Member \$20/Family \$25

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Kim & Steve Waller

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KEØNQS.mn@gmail.com KEØNQT@gmail.com



Summer 2026



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MINNESOTA REMEMBERS The 25th Anniversary of September 11th

That Tuesday morning, at a Catholic guesthouse in Manhattan, two priests from the Diocese of St. Cloud, Minnesota, sat talking over coffee. The clear blue sky was already shimmering with sun, and the day was headed toward the low 80s—a perfect morning for sightseeing. The two were visiting the city on vacation and planned to see Broadway, concerts, a taping of the Late Show, Ellis Island, and the Statue of Liberty. But first they planned to visit Windows on the World, the restaurant on the 106th and 107th floors of World Trade Center Tower One. **Father Jeff Ethen** of Clitherall and **Father Peter Kirchner** of Rice had reached Leo House, on West 23rd Street in Chelsea, about twenty blocks north of the Towers, near midnight on September 10th. A storm had delayed their flight from the Twin Cities. **The Sisters of St. Agnes** kept the house, and as the priests lingered, chatting with the nuns, they lost track of time.

In Midtown, **Scott Meyer** of White Bear Lake, Minnesota, an All-American goaltender from St. Cloud State University, had signed as a free agent with the New York Rangers. Meyer had arrived about 3 a.m. on September 11th. He wanted a few hours of sleep before training camp opened at Madison Square Garden and went to bed. The team had been booked at a hotel connected to the World Trade Center; but a double-booking mistake moved them to Midtown, near the Empire State Building. He was on an upper floor of that hotel when the day began.

Continued on Page 13



Tribute in Light is a commemorative public art installation first presented six months after 9/11 and then every year thereafter, from dusk to dawn, on the night of September 11. It has become an iconic symbol that both honors those killed and celebrates the unbreakable spirit of New York, and our Nation. Image credit: The National September 11 Memorial & Museum



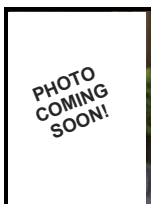
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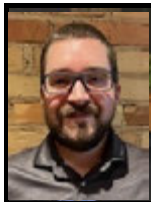
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Randy Wabik

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Justin Cheever
jcheever13@gmail.com

2ND YEAR BOARD



KFØLFZ
Brian Beckman

1ST YEAR BOARD



AAØAC
Dave Davis
218-348-6649
aaøac@outlook.com

Board Meeting Minutes - August 4, 2026

Present:

Board Members

Gene Ellefsen – NØVRM, Jon Nelson – NØUOZ, Melinda Nelson – AFØET, Randy Wabik – KRØB, Brian Beckman – KFØLFZ, Justin Cheever – KD9VKI

Board Advisors (Non-Board Members)

Doug Nelson – AAØAW

Guest:

Rochelle Nelson, Robin Davis

Meeting called to order by President Gene – NØVRM at 18:31 (6:31 pm)

Minutes:

Minutes were sent via email. Motion to approve by Justin Cheever – KD9VKI, seconded by Jon Nelson – NØUOZ, motion passed.

Treasurer's Report:

Checking: \$272.48
Savings: \$4,559.83
Repeater: \$3,552.68
Subtotal Cash \$8,384.99
Cash on hand: \$252.63
Subtotal COH: \$252.63
Outstanding Checks:
Assets Subtotal: \$8,637.62

Motion made by Melinda Nelson – AFØET to accept Treasurer's report as is, seconded by Jon Nelson – NØUOZ I. Motion passed.

We brought it to the club last month about raising the dues. After discussion the motion was revoked by the board to have further discussion. The new dues will go into effect January 1, 2027, Jon Nelson – NØUOZ made a motion to increase the Singles to \$30.00 and Family \$40.00. Randy Wabik – KRØB seconded, motion passed. Will bring it to the club for voting on August 13th, 2026.

Storage Units – Brian has been looking into storage units to see if we can save money. Currently we are spending \$109.00 a month on the current storage unit. For a 5X10 storage unit in Duluth it is around \$90.00 to \$95.00 a month. The 10X10 storage units are around \$110.00 to \$150.00 a month. The cheapest place I have found so far is KO Storage in Superior, WI for an 8X10 storage unit for \$84.00 a month and a 10X10 for \$89.00 a month. We are currently paid up till the end of September 2026 at our current storage unit. Motion to bring it to the club made by Melinda Nelson – AFØET, seconded by Randy Wabik – KRØB, motion passed.

HamFest Increases – Entry fee will stay at \$10.00; table fees are going to increase to \$20.00. Motion made by Melinda Nelson – AFØET, seconded by Jon Nelson – NØUOZ, motion passed.

Testing:

Need a copy of the FRN number, an ID, and a copy of your licenses. As always if you are ready to test or know someone who wants to test, please get ahold of Doug Nelson – AAØAW at AAØAW@arri.net.

Repeater:

New Business:

In-Line
Fall Fest
Looking for rates of storage units





ARAC Club Meeting Minutes

August 13, 2026

Present:

President: Gene Ellefsen – N0VRM
Vice President: Jon Nelson – N0UOZ
Treasurer/Membership: Randy Wabik – KR0B
Secretary: Melinda Nelson – AF0ET
Second Year Board: Brain Beckman – KF0LFZ
HamFest/Education: Bob Schulz – KC0NFB
Special Events: Open/Gene Ellefsen – N0VRM (acting)
Parliamentarian: Grant Forsyth – KC0WUP
Testing: Doug Nelson – AA0AW

Absent:

First Year Board: Dave Davis – AA0AC
Repeater: Dave Pyrlik – K0DJP & Randy Wabik – KR0B
Third Year Board: Justin Cheever – KD9VKI
Property/Picnic: Scott Ahlgren – N0VYU
Newsletter/Historian: Kim Waller – KE0NQS
Newsletter/Historian: Steve Waller – KE0NQT
Web Site: Thomas Dorr – KE0RHA
Chaplin:

Meeting called to order at 19:00 (7:00 PM) by President Gene Ellefsen – N0VRM. 41 (Forty-one) Members were in attendance

Minutes:

Minutes are posted on the website and in the newsletter. Motion to accept by Bob Schulz – KC0NFB seconded by Tim Davich – KB0OPC, motion Passed.

Treasurer's Report:

Checking: \$272.48
Savings: \$4,559.83
Repeater: \$3,552.68
Subtotal Cash \$8,384.99
Cash on hand: \$252.63
Subtotal COH: \$252.63
Outstanding Checks:
Assets Subtotal: \$8,637.62

Motion made by Rex Gibbs – N0KXT, seconded by Doug Nelson – AA0AW. Motion passed.

Club Dues – Board made a motion to increase the dues Single \$30.00 and Family \$40.00. Second on the board motion made by Bob Schulz – KC0NFB, motion passed. Starting January 1, 2027, new dues will be Single \$30.00 and Family \$40.00. We are also trying to get the dues paid between December and January going forward.

Storage Unit – Brian has been looking into storage units to see if we can save money. Currently we are spending \$109.00 a month on the current storage unit. For a 5X10 storage unit in Duluth it is around \$90.00 to \$95.00 a month. The 10X10 storage units are around \$110.00 to \$150.00 a month.

Continued on Page 4



ARAC Club Meeting Minutes continued

The cheapest place I have found so far is KO Storage in Superior, WI for an 8X10 storage unit for \$84.00 a month and a 10X10 for \$89.00 a month. We are currently paid up till the end of September 2026 at our current storage unit. After discussion motion to move storage units was made by Rick Minotte – KB0YBA, seconded by Tim Davich – KB0OPC, motion passed.

Education

Technician Class will be starting September 15th via Zoom. We have 2 people signed up as of now.

Testing:

Please make sure that you have the updated syllabus. As always if you are looking to test or upgrade or know of anyone that is interested in testing, please contact Doug Nelson – AA0AW at AA0AW@arll.net.

Upcoming races

Minnesota Mile – Friday September 11th
North Shore Inline Marathon - Saturday September 19th
Wild Duluth – Saturday October 17th and Sunday October 18th

New Business:

Brainerd Tailgate Fest Saturday August 15th
Bloomington Saturday August 29th
Carlton Saturday September 26th

Silent Key: (Please keep their family in your thoughts)

New members/Returning members (Please welcome them when they get on the radio):

Kristoff Baseman – AF0GG

Door Prize: was won by Raymond Barnes – KE0ZN

Motion to adjourn by Jon Nelson – N0UOZ, seconded by Bill Fleischman – KC0ZZL, motion passed at 17:25 (7:25 PM).

2026 Program:

September – RT Systems
October –
November – DMR
December – Christmas Party

If you are interested in seeing a program, or would like to host a program, please reach out to Jon Nelson at jonbeeyore@outlook.com or 715-817-1986.



CLUB REPEATER
WØGKP
146.94 (-)
CTCSS TONE



Prez Sez

Hi Everyone,

This may seem early but Club Officer elections will be coming up in December and nominations taken at the October and November Club meetings.

Positions available are President, Vice President, Secretary, Treasurer and First Year Board member.

If you are interested in one of these positions, please let one of the Board members know. I will not be seeking re-election as President so that position will be open.

Gene Ellefsen NØVRM 73



LOOKING for an Amateur Radio License TESTING SESSION?

Schedule your own Testing Session TODAY!

Contact Doug Nelson-AA0AW at aa0aw@arrl.net or 218-391-5874

All Exam Candidates are REQUIRED to have an FCC Registration Number (FRN) before exam day, which will require your email address.

Not Currently Licensed? For New License Candidate FRN registration, go to: www.fcc.gov/new-users-guide-getting-started-universal-licensing-system-uls

**Upgrading to General or Expert Class & not sure you have an FRN number?
go to**

<https://wireless2.fcc.gov/UlsApp/UlsSearch/searchLicense.jsp>

UPGRADE CANDIDATES:

Please bring a copy of your current license to the exam session.

CW Abbreviations

AR End of Message	AS Pse QRX	BK Back to You	SK End of Contact
TU Thank You	PSE Please	K Invite to Transmit	
QST Calling all Amateurs	QRL Are You Busy?	QRU Have anything for me	
QRV Are You Ready?	QRX Standby	QRS Transit Slower	

A ●—	M —●—	Y —●—●—
B —●—●—	N —●—	Z —●—●—
C —●—●—	O —●—●—	1 ●—●—●—
D —●—●—	P —●—●—	2 ●—●—●—
E ●—	Q —●—●—	3 ●—●—●—
F ●—●—	R —●—●—	4 ●—●—●—
G —●—●—	S —●—	5 ●—●—●—
H —●—●—	T —●—	6 —●—●—
I —●—	U —●—	7 —●—●—
J —●—●—	V —●—●—	8 —●—●—
K —●—●—	W —●—●—	9 —●—●—
L —●—●—	X —●—●—	0 —●—●—



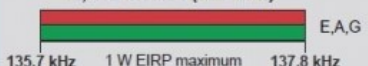
US Amateur Radio Bands

US AMATEUR POWER LIMITS

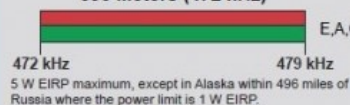
FCC 97.313 An amateur station must use the minimum transmitter power necessary to carry out the desired communications. (b) No station may transmit with a transmitter power exceeding 1.5 kW PEP.

On March 28, 2017, the Federal Communications Commission adopted rules that will allow Amateur Radio access to 472-479 kHz (630 meters) and to 135.7-137.8 kHz (2,200 meters). However, amateurs cannot use these frequencies until 30 days after the Report and Order is published in the Federal Register and the final procedures for registering stations with the Utilities Telecom Council (UTC) have been approved and announced. At the time this chart was created, the Report and Order had not been published and the UTC online registration site is not yet available. Follow ARRL news for further information. New charts will be published at www.arrl.org/graphical-frequency-allocations when the bands are fully available for use.

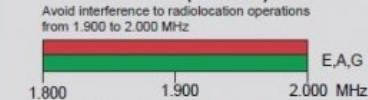
2,200 Meters (135 kHz)



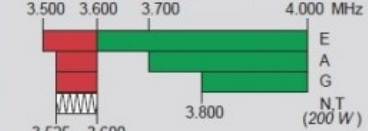
630 Meters (472 kHz)



160 Meters (1.8 MHz)



80 Meters (3.5 MHz)

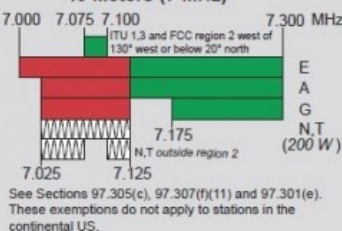


60 Meters (5.3 MHz)

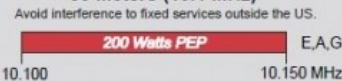


General, Advanced, and Amateur Extra licensees may operate on these five channels on a secondary basis with a maximum effective radiated power (ERP) of 100 W PEP relative to a half-wave dipole. Permitted operating modes include upper sideband voice (USB), CW, RTTY, PSK31 and other digital modes such as PACTOR III. Only one signal at a time is permitted on any channel.

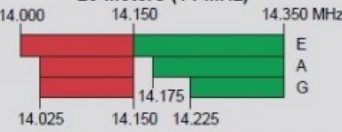
40 Meters (7 MHz)



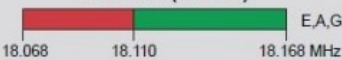
30 Meters (10.1 MHz)



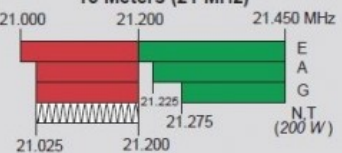
20 Meters (14 MHz)



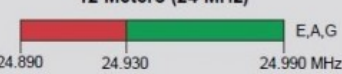
17 Meters (18 MHz)



15 Meters (21 MHz)



12 Meters (24 MHz)



Effective Date for
2,200 and 630 Meters
to be announced



ARRL The national association for
AMATEUR RADIO®

KEY

Note:
CW operation is permitted throughout all amateur bands.

MCW is authorized above 50.1 MHz, except for 144.0-144.1 and 219-220 MHz.
Test transmissions are authorized above 51 MHz, except for 219-220 MHz

- = RTTY and data
- = phone and image
- = CW only
- = SSB phone
- = USB phone, CW, RTTY, and data
- = Fixed digital message forwarding systems only

E = Amateur Extra
A = Advanced
G = General
T = Technician
N = Novice

See **ARRLWeb** at www.arrl.org for detailed band plans.

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NETS

Have a favorite HF/6m/2m/1.25m/70cm net that you check into or listen in on? Also, please send corrections and we will add it to the list below - Kim KEØNQS at my email KEØNQS.mn@gmail.com.

- **Northland Weather Group Net:** Mondays 2000 on the ARAC repeater (146.940 MHz with a tone of 103.5 and standard offset).
- **Minnesota D-Star Net:** Sundays at 19:30 on Reflector 53A
- **Minnesota Section Net** 1200 and 1730 on 3.860 [Net Manager: NØYR] http://www.mn-section.org/dept_stm.html
- The non-non-net: Evenings 2000 144.200 USB except for Sunday evenings.
- Badger WX Net: 0500-0715 on 3.985. Give 24 hour high/low/current temperature, precipitation and snowfall.
- **PICONET:** 3.925 from 0900-1100 CT Mon-Sat and 1600-1700 CT Mon-Fri. Info at: <http://www.piconet3925.com>
- Michigan Upper Peninsula Net: 1600 (CST) on 3.921 MHz Sun-Sat and 1200 Sun. Info: <http://www.michupnet.com>
- Great Lakes Marine/Maritime Mobile Net: Morning 07:30 - 3.932; 08:15 - 7.261 MHz and evening 18:30 - 3.1730927; 19:15 - 7.268 MHz. Weekend extra net: 10:00 - 7.261/7.268 MHz. All CST, LSB and +/- QRM. See: <http://www.sailblogs.com/member/glmmnet/>
- MIDCARS: 07:30-13:00 - 7.258 MHz. See: <http://www.midcars.net>
- Iowa snowbird net on 14.257MHz, M-W-F at 10:00 am Local Time. This is an open net.
- Spider Web Net (Marco Island FL) on 14.347 every morning at 0730 CST/CDT: <http://www.spiderwebnet.net>
- Maritime Mobile Service Network: Daily at 1100—2100 Central on 14.300. <http://mmsn.org> and <http://www.14300.net>
- RV Radio Network: Every day at 1900 Central on 7.265 MHz. Web site: <http://www.rvradionetwork.com>
- Upper Midwest Ten Meter Net: Every Thursday Evening @ 8 PM – 28.480 MHz USB
- Wisconsin Sideband Net: Daily @ 5:15 PM – 3985 [or 3982.5] KHz LSB
- Hobby Helpers Net - Tuesday @ 8 PM – 28.330 MHz USB (Isanti MN) LSB [Net Manager: WOØA].
- Northstar Trader Net: 3.908 +/- at 0830 CST Sundays
- WARFA: 3.908 +/- Sun/Tue/Thu nights at 2200 CST, <http://warfa.org/>
- Youth Net: 14.320-14330 Sundays 1800-1900 UTC, Net Control: AC8PI
- YACHT: Saturdays 1900 CST on EchoLink #481872, <http://yachthams.webstarts.com>
- Northwestern Ontario ARES Net: Evenings at 20:15 (Central) on +/- 3.750Mhz
- The Iron Range Net: Saturdays at 0800 Central time on or near 3.919 Mhz. Look them up on Facebook!
- FORX Net: Mondays at 1900 Central at 3.941 Mhz +/- QRM. WAØJXT — Grand Forks, North Dakota
- HF CW: Fridays 08:00 CST, 7.112 MHz. Informal slow speed CW Net. W8IRT NCS. Email: w8irt@aol.com
- Minnesota ARES Digital Net: Thursdays at 2000 CST, 3.5835 MHz USB +/- QRM, Mode: Olivia 8/500.
- SARA Digital Net: Sundays at 1900 Local, 3.582.150 MHz USB +/- QRM, Mode: BPSK31/BPSK63
- Spider Web Net (Marco Island FL): 14.347 every morning at 0730 CST/CDT: <http://www.spiderwebnet.net>
- Broadcaster Net: 7.231 or 3.855 M/W/F @ 1500 UTC. 14.255 M-F @ 2130 UTC. <http://www.cbsretirees.com/ham.htm>
- Old Military Radio Net: 7.268 +/- nightly at 0200z. Other times/Frequencies too. See: <http://www.mrca.ar88.net/>
- Rag Chew Crew/Tailgaters/Freewheelers Nets: 3.916 +/- nightly at 1900 CST, <http://www.tailgatersnet.com>
- North South Net: 7.214.6 +/- at 0700 CST, Monday-Saturday



DULUTH AREA REPEATERS

ARAC System WØGKP

Frequency	Offset	Tone	Location
146.940	minus	103.5	Duluth
146.940	minus	107.2	Lakeside (recv)
146.940	minus	151.4	Two Harbors (recv)
146.940	minus	100.0	Gary-New Duluth (recv)
146.940	minus	110.9	Cloquet (recv) Not Operating
147.000	minus	103.5	Mahtowa
444.100	plus	103.5	Duluth UHF Link

N9MMU/N9QWH System (WI)

145.310	minus	110.9	Duluth
145.490	minus	110.9	Solon Springs
147.255	plus	110.9	Hayward
145.110	minus	110.9	Rice Lake
147.345	minus	136.5	Holcombe
145.230	minus	110.9	Eau Claire

WECOMM – WI Statewide Linked System WE9COM

147.075	plus	110.9	Meteor Hill (closest repeater to Duluth)
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LSAC System – some may work/some may still be linked

147.330	plus	151.4	Proctor	Not Operating
147.270	plus	114.8	Two Harbors	
147.270	plus	103.5	Wales	Not Operating
147.090	plus	114.8	Silver Bay	
147.300	plus	114.8	Isabella	Not Operating
145.150	minus	103.5	Washburn, WI	
146.700	minus	103.5	Bayfield, WI	Not Operating
443.850	+5.00	none	Bayfield, WI	
147.165	plus	110.9	Hurley, WI	Not Operating
146.640	minus	151.4	Ely	
443.500	+5.00	141.3	Gilbert	Not Operating
147.060	plus	103.5	Virginia	
147.360	plus	162.2	Cook	Not Operating
147.165	plus	114.8	Coleraine	
443.925	+5.00	110.9	Brainerd	Not Operating
443.200	+5.00	114.8	Tamarack	
147.360	plus	203.5	Aitkin	Not Operating
146.865	minus	146.2	Giese	
443.325	+5.00	146.2	Isanti	Not Operating

Rev. KCØWDQ as of 12/01/24 For ARAC Newsletter

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DULUTH AREA REPEATERS, continued

NARC System NAØRC

147.135	plus	103.5	Knife River
147.135	plus	114.8	Duluth (rcv)

Stand Alone Repeaters

145.210	minus	110.9	Clam Lake, WI
146.880	minus	123.0	Grand Rapids, MN
146.910	minus	146.2	Duxbury, MN
146.955	minus	146.2	Askov, MN
147.105	plus	110.9	Chaffey, WI
444.850	+5.00	141.3	Cloquet, MN

Fusion

Fusion (Analog has tone and C4FM digital with no tone)

147.150	plus	151.4	NTØB Gilbert, MN Fusion Repeater
145.170	minus	110.9	WA9KLM Superior, WI – Douglas County RACES/ARES Fusion Repeater (Digital only) Fusion Room 28373

145.250	minus	103.5	KBØYHX Cloquet, MN – Carlton County RACES/ARES Fusion Repeater
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444.300	+5.00	103.5	NØEO Duluth, MN – Spirit Valley Amateurs Fusion Repeater WIRES-X NØEO (Analog only) Fusion Room 40494
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444.400	+5.00	103.5	NAØRC Knife River, MN – Wires X Connected to NØEO Room 40494
444.500	+5.00	103.5	NØLCR Two Harbors, MN – Wires X Connected to NØEO Room 40494
444.600	+5.00	103.5	NØLCR Silver Bay, MN – Wires X Connected to NØEO Room 40494
444.800	+5.00	103.5	NØLCR Grand Marais, MN – Wires X Connected to NØEO Room 40494
440.400	+5.00	110.9	WØLSA Maple, WI – Wires X Connected to NØEO Room 40494

D-Star

147.375	plus	NØEO D Star
442.200	plus	NØEO D Star

Rev. KCØWDQ as of 12/01/24 For ARAC Newsletter

Elmers

El-mer / el-mər/ [el-mer]

1. a male given name: from Old English words meaning "noble" and "famous."
2. an adhesive used to bond like or unlike materials
3. An experienced ham radio operator who mentors new and prospective hams.

Name	Call Sign	Expertise
Jeff Nast	KCØMKS	APRS, EchoLink, WinLink, Fusion, Contesting
Bob Schulz	KCØNFB	Contesting
Jim Anderson	NØJWA	QsoNet
Doug Nelson	AAØAW	HF, VHF/UHF, Contesting, Packet, APRS, Morse Code, VE testing, Echolink, Allstar, EmCom...



Membership Email Directory

Ahlgren, Scott NØVYU
sahlgren01@msn.com
Anderson, Jim NØJWA
kc0mko@centurylink.net
Anway, Allen KC9LJN
allen@a2d2.com
Bakke, Richard KDØQHE
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Co-Editors,
Kim & Steve Waller
KEØNQS & KEØNQT



SUNDAY NIGHT NETS
 1930 - CW - 28.125 MHz USB-CW
 2000 - USB 28.450 MHz
 2100 - Southern St. Louis County
 Emergency Services Net
MONDAY NIGHT NETS
 2000 - Northland WX Net - ARAC Repeater

SEPTEMBER

CLUB EVENTS

TUESDAY NIGHT NETS
 2000 - Douglas Cty 145.490 MHz
 2030 - Central Carlton County
WEDNESDAY NIGHT NETS
 1900 - Lake County - LSAC1
 2nd & 4th Wednesdays
 2100 - BWAR

	Mon	Tue	Wed	Thu	Fri	Sat
		1 ARAC BOARD MEETING Sammy's Pizza 6:30 pm DC Net 2000 CC Net 2030	2 2100 - BWAR	3	4 Friday Night 6 meter Gag-Chew 50.125 USB 7 PM	5
6 CW 1930 NØPDG USB 2000 KB9WLB ES 2100 KØDSL	7 Happy Labor Day! WX 2000 KCØMKS	8 DC Net 2000 CC Net 2030	9 Lake County ARES/RACES Meeting 1900 CC EOC Lake County LSAC1 1900 2100 - BWAR	10 ARAC Club Meeting Coppertop Church 7 PM	11 Friday Night 6 meter Gag-Chew 50.125 USB 7 PM	12
13 CW 1930 AAØAW USB 2000 K9KDK ES 2100 KD9VKI	14 Douglas County ARES/RACES Mtg 1900 DC E WX 2000 KCØMKS	15 DC Net 2000 CC Net 2030	16 2100 - BWAR	17	18 Friday Night 6 meter Gag-Chew 50.125 USB 7 PM	19
20 CW 1930 NØPDG USB 2000 KRØB ES 2100 KCØWDQ	21 WX 2000 KCØMKS	22 DC Net 2000 CC Net 2030	23 Lake County LSAC1 1900 2100 - BWAR	24 Carlton County ARES/RACES Meeting 1900 CC EOC	25 Friday Night 6 meter Gag-Chew 50.125 USB 7 PM	26
27 CW 1930 AAØAW USB 2000 NØVRM ES 2100 KFØLFZ	28 WX 2000 KCØMKS	29 DC Net 2000 CC Net 2030	30 2100 - BWAR			
						

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aa0aw@arrl.net

Next Club Meeting:
September 10, 2026 - 7 pm
Coppertop Church

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Contest Calendar at www.contestcalendar.com

National Contest Journal at www.ncjweb.com

QSO Party Note: State/Province/National QSO Parties are abbreviated with the 2 or 3 letter abbreviation for the state/province/national designation followed by QP for QSO Party:

Examples: Minnesota QSO Party is MNQP

British Columbia QSO Party = BCQP

QRZ web site at www.qrz.com

VHF Propagation site at www.aprs.mountainlake.k12.mn.us

Reminder: The Contest Corral monthly listing of contests can be found in each issue of QST. ARRL sponsored contests can be found in Contest Corral, highlighted, or on the ARRL's web site at arrl.org.

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Farther east, **Craig Sonnenberg**, a Perham, Minnesota, high school graduate of 1995, was already in the city he had called home since 1998. Having made the commute from his home in Queens, he settled into his morning tasks at a Midtown office near 42nd Street and Grand Central. Downtown was a short cab ride away.

The Towers Open

Downtown, the Twin Towers of the World Trade Center were already at work. High in Tower One, Windows on the World had opened for breakfast. On the 106th and 107th floors, waiters moved among tables while a corporate conference filled the banquet rooms. Guests sat over coffee with the harbor, the rivers, and the whole island laid out below them in that clear September light. The priests from St. Cloud were still on West 23rd Street

A few floors beneath the restaurant, on 94, Sandra Conaty Brace, born in Bemidji, Minnesota, was at her desk as an administrative assistant for Marsh & McLennan, the global insurance-brokerage and risk firm. She worked in its Risk Insurance Solutions unit. She had taken September 10th off. Her husband had asked her to stay home the 11th as well, but she thought she should go in.

On the 63rd floor of the same tower, Scott A. Wallace of St. Paul and Woodbury, a consultant and managing director with Deloitte Consulting, was in the building for a meeting with the Port Authority. Deloitte advised companies and public agencies on finance, operations, and large contracts. Wallace's team had expected to meet at the Port Authority finance offices on 93. At check-in they were sent instead to a procurement floor. They set up in a conference room off the elevator bank and waited.



World Trade Center Twin Towers in NYC, circa year 2000
Image: Public Domain; Created by Balthazar Korab

Across the plaza in Tower Two, Gordy Aamoth Jr. of Wayzata, an investment banker with Sandler O'Neill & Partners, was on the 104th floor. Sandler O'Neill was a boutique investment bank that advised financial institutions. The day before, in Minneapolis, Aamoth had closed his biggest merger deal; the firm was to announce it from the Trade Center office that morning. Gary Koecheler, a St. Paul native who had put himself through college and law school, was a government-bonds broker at Euro Brokers on the 84th floor. Euro Brokers was an inter-dealer broker, matching buyers and sellers in the bond and money markets. The trading floor was already into its morning.

Clarín Schwartz, University of Minnesota Law, class of 1973, was a Senior Vice President at Aon, a global insurance broker and risk adviser. She was in her office in the upper stories of the South Tower.

Robert Rasmussen, whose mother lived in Hawley, Minnesota, was a regional manager for Vestek, an investment-technology firm that sold software and data to money managers. He was in the South Tower on business and would later be placed near the 78th floor sky lobby.

The complex held thousands by then. Elevators ran. Phones rang. From the top of Tower One, Windows on the World looked down on Manhattan and New York Harbor in all its brilliant glory. Some diners discreetly snapped a photograph of the stunning view. The perfect postcard of an endless moment in time.

Four Departures

At 7:59 a.m., American Airlines Flight 11 left Logan International in Boston for Los Angeles. Captain John Ogonowski and First Officer Thomas McGuinness were on the flight deck.

Among the passengers was Jessica Sachs, twenty-three. She had grown up in Rochester, Minnesota, and graduated from John Marshall High School in 1996. As a student there she was drawn to prayer groups.

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After high school she started at the University of Wisconsin—La Crosse, then transferred to the University of Massachusetts Amherst when the family moved east. As a sophomore she decided to major in accounting, saying she would work for one of the top firms. She graduated in December 2000 and joined PricewaterhouseCoopers in Boston as an auditor. She lived with her parents in Billerica, Massachusetts, studied for the CPA exam on Saturdays, and went to New Colony Baptist Church on Sundays. September 11th was her first business trip west.

At 8:14 a.m. United Flight 175 left the same airport, also for Los Angeles. Captain Victor Saracini and First Officer Michael Horrocks were on the flight deck.

Aboard was Professor Robert George LeBlanc. Born in New Hampshire, he earned a B.A. at the University of New Hampshire in 1959, then moved to Minnesota for graduate work at the University of Minnesota, where he earned a Master's in 1961 and then a Ph.D. in Geography. He went on to teach cultural geography at University of New Hampshire from 1963 to 1999, became professor emeritus, and lived in Lee, New Hampshire, with his wife, Andrea. On September 11th he was flying to a meeting of the Association of Pacific Coast Geographers in Santa Barbara, connecting through Los Angeles.



New York Harbor View of Statue of Liberty with Twin Towers, circa year 2000

Image: By Ted Kerwin - flickr.com/photos/tedkerwin/

At 8:20 a.m. American Airlines Flight 77 left Washington Dulles for Los Angeles. Captain Charles F. "Chic" Burlingame III and First Officer David Charlebois were on the flight deck.

Charles Burlingame had been born September 12, 1949, in Saint Paul. His father, a World War II Navy veteran who later served in the Air Force, moved the family among bases; they left Minnesota while Chic was a child. He grew up mainly in Southern California, and graduated from Anaheim High School in 1967. He was an Eagle Scout who played trumpet in the marching band—and went on to the U.S. Naval Academy, class of 1971. He flew F-4 Phantoms off the USS Saratoga, trained at Top Gun, and went from active duty to Naval Reserve in 1979. That same year, he was hired by American Airlines to pilot the 727, then later the 757 and 767. He

retired from the Navy Reserve as a captain in 1996. In 2001 he lived in Oak Hill, Virginia, with his wife, Sheri, an American Airlines flight attendant.

United Flight 93, Newark to San Francisco, was late. Captain Jason Dahl and First Officer LeRoy Homer Jr. took off at 8:42

In first class sat Thomas E. Burnett Jr., born May 29, 1963, in Bloomington, Minnesota, and raised there—Ridgeview Elementary, Olson Middle School, Thomas Jefferson High School, class of 1981. As starting quarterback (jersey 11 and then 10), he led the Jaguars to the state finals in 1980. He went to Saint John's University until a football injury, then transferred to the University of Minnesota Carlson School of Business and earned a B.S. in finance. He went on to earn an MBA at Pepperdine. He was Senior Vice President and Chief Operating Officer of Thoratec, a California medical-device company that made heart pumps. Home was San Ramon, California, with his wife, Deena, and three daughters. Burnett was in Newark after a business trip in New Jersey, boarding the morning flight home.

Farther back in the cabin was fellow passenger Todd Beamer of Cranbury, New Jersey, who was traveling for a meeting in San Francisco as an account manager at Oracle Corporation.

From 8:42 until 8:46, all four large aircraft were in the air at once, with fuel tanks full for cross-country flights, and 246 passengers and crew on board. That Tuesday, all four flights were lightly booked. American 11 was only about half full. United 175 and American 77 were about one-third full. United 93 left Newark with only

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37 passengers in 182 seats. But among the passengers and crew of the four planes, 19 more individuals had quietly slipped in.

The Pentagon

The Pentagon sits in Arlington, Virginia, just across the Potomac from Washington—about two miles from the White House. In 2001, on a typical weekday morning it held some 23,000 to 25,000 military and civilian workers, a city under one roof. Five floors, five rings, five wedges. A multi-year renovation was under way. Wedge 1, on the west side, had been emptied of about 5,000 people, who were sent to leased offices in nearby Rosslyn and Crystal City. Tenants had begun moving back into the rebuilt wedge in early 2001, a hundred or so a week.

On September 11th that section was only partly occupied. The building had blast-resistant windows and a new remote loading dock for trucks. It had no rooftop anti-aircraft guns or its own radar to track local air traffic. Airliners from Reagan National passed overhead every day routinely--and almost unnoticed. U.S. Military's Continental air defense strategy was aimed outward, at aircraft entering the country, not at a domestic airliner already in the corridor. A warning of a stray aircraft, if it came at all, would come from the FAA to NORAD, then to the nearest alert fighters—which at that time was Otis on Cape Cod, hundreds of miles away, or Langley in Virginia, 130 miles from Washington. **At that time, there was no combat air patrol assigned to cover Washington, DC.**



The Pentagon, circa 2018 Image: Department of Defense

Master Sergeant Max J. Beilke worked for the Army on retiree and survivor benefits. His regular office was in the Hoffman Complex, a few blocks from the Pentagon. A recurring Monday Pentagon meeting set for September 10th was moved to the 11th. That morning he was in a Pentagon meeting room with other retirement officials, including Lt. Col. Gary Smith and Lt. Gen. Timothy Maude, on veteran, retiree, and family benefits (survivor benefits / TRICARE-related work).

Max J. Beilke was born July 24, 1932, in Pipestone, Minnesota, and his family later moved to a farm near Alexandria. He graduated from Alexandria High School in 1950 and was drafted in 1952. He served two years in Korea, then re-enlisted. Beilke met his wife, Lisa, while stationed in Germany.

Once he was back home in Minnesota, he taught ROTC and coached football at St. Thomas Academy in St. Paul. He went to Vietnam in 1972 and he helped coordinate the withdrawal and the last troop flights so POWs would be released as agreed.

On March 29, 1973, he was filmed boarding a C-130 at Tan Son Nhut—officially the last U.S. combat soldier to leave Saigon. He retired in 1974 as a Master Sergeant and Senior NCO of Army Intelligence Command at Fort Meade. He turned to civilian work: legislative counsel for a retiree association, then as Deputy Chief of Army Retirement Services, which brought him to Washington, D.C.

Cheryle D. Sincok was an administrative assistant at the Pentagon. Born 1946 in Currie, Minnesota, she was the third of thirteen children. She later lived in Sioux Falls, South Dakota, where she met her husband Craig, who was from Owatonna, Minnesota. He entered the Army Reserve in 1964 and transferred to the Army National Guard in the 1970s. He and Cheryle were married in 1976 and Craig was assigned to the Pentagon in 1985. Cheryle began to work at the Pentagon as an Army civil-service administrative assistant in 1987, at one point working for a two-star general. By 2001 she and Craig lived in Woodbridge, Virginia, and she was a mother of four and a grandmother of six. At that time, Craig had served 34 years in the Army, as he rose to Chief Warrant Officer Five. His work was in technology: Senior Computer Specialist, with degrees in management, computer science, and electrical engineering, and later a Doctorate in Engineering Management. Cheryle and Craig regularly commuted in to the Pentagon together, and by 2001 Craig was more often in meetings outside her corridor of the building. On September 11, 2001, Craig was off site at a meeting in Rosslyn, Virginia, while Cheryle worked at her usual desk at the Pentagon.

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The Hijackings

The first warning did not come from a news desk. It came from the cabin of American 11, the plane where 23 year old Jessica Sachs from Rochester, Minnesota was a passenger.

About 8:14 the cockpit stopped answering Boston Center. At 8:19, flight attendant Betty Ong reached an American reservations office in North Carolina. The cockpit was not answering, she said. Someone had been stabbed in business class. She thought there was Mace. She thought they were being hijacked. She stayed on the line.

Flight attendant Amy Sweeney reached American Airline's Boston office with the same news: a man in first class with his throat slashed, two flight attendants had been stabbed, no answer from the pilots, talk of a bomb. Air traffic controllers heard a cockpit microphone keyed by mistake—"We have some planes. Just stay quiet and you'll be okay."

At 8:44 Sweeney said they were in a rapid descent, all over the place. "I see the water. I see the buildings." Then: "We are flying low. We are flying very, very low. We are flying way too low." Then: "Oh my God, we are way too low." The line died.

At 8:46 American Flight 11 struck the North Tower between floors 93 and 99. On 63, Scott Wallace of St. Paul and Woodbury was walking back from a window after taking a moment a look at the Statue of Liberty. Then the building threw him sideways. Debris fell past the glass. Someone shouted to get out. He grabbed for a jacket and a phone, but lost them in the smoke. Making his way to the stairwell, he found the stair marker in the haze: Floor 63--a long way down. As Jet-fuel fumes filled the stairwell, he prayed to stay calm and began his descent.

Sandra Conaty Brace was at her desk on 94 for Marsh & McLennan, in the impact zone. Her husband, watching from Brooklyn, tried to reach her by phone, but could not.

Twenty blocks north, at Leo House, Father Jeff Ethen and Father Peter Kirchner were still at the table. Ethen had just poured a second cup of coffee. As he drank it, the first plane hit. They had meant to be at Windows on the World right then, and "losing track of time" had saved their lives.



9/11/2001 LEFT, Second Plane, United Flight 175) Hits South Tower; RIGHT, Smoke and fire intensifies with both Towers Hit
Left Image: Robert J. Fisch (Flickr) Right Image: Michael Foran (Flickr)

At 9:03 the second Flight 175 struck the South Tower, floors 77 to 85. Gordy Aamoth Jr. was on 104 at Sandler O'Neill, above the impact. Gary Koecheler was on the Euro Brokers trading floor on 84, in the impact zone. Clarin Schwartz was in Aon's upper floors of the same tower.

Robert Rasmussen called his wife from the 78th-floor sky lobby after the North Tower was hit. He said he was all right. He was later seen on a landing around the 42nd floor, trying to get out with Vestek colleagues.

In Midtown, Scott Meyer was on an upper floor of a hotel near the Empire State Building. He awoke anticipating a day at Rangers training camp. A call told him to turn on the television, where he saw the North

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Tower burning. He decided he did not want to stay that high in the hotel and quickly showered to leave. While the water ran, the second plane hit the South Tower of the World Trade Center.

Near 42nd Street and Grand Central, Craig Sonnenberg was at his Midtown desk, a short ride from Downtown. The view from his street allowed him to see the towers standing above every other roof. In disbelief, he saw the smoke billowing from the North Tower, then the South Tower, turning the clear blue sky darker and darker over the city.

Scott Wallace, still in the North Tower stairs, felt the South Tower blow. The concussion rocked his building. A man with a BlackBerry said a second plane had hit. On the way down they met firefighters climbing up the stairs—**Rescue 1** among them, eleven men. Wallace and others patted the firefighters on the back as they passed and said “good luck”. No one from Rescue 1 came back out.

People continued to pour down the stairs of both Towers. Express elevators had become chimneys. Jet fuel had blown fire into the lobbies. More **FDNY** companies went in with hose and halligan and started up the stairs. Civilians came down in a steady line, taking care to make room on the stairs for the stream of firefighters going up. The South Tower would stand only 56 minutes after it was hit. The North Tower, 102 minutes.



September 11, 2001

Top Image: With both of the Twin Towers hit, the South Tower (2 World Trade Center), seen on the left, collapses downward first at 9:59 a.m.

Bottom Image: South Tower has collapsed and the North Tower (1 World Trade Center) is still standing, seen on the right. 29 minutes later, the North Tower collapsed at 10:28 a.m.

When the second plane hit the South Tower, the FAA realized this was most certainly not a single, accidental airplane hitting the North Tower. This was a terror attack.

At 9:26 the agency ordered a national ground stop: nothing else would take off. At 9:45 every civil aircraft still in American airspace was told to land. More than two hundred flights already over the ocean or unable to return were diverted into Canada—Operation Yellow Ribbon. Runways at Halifax, Gander, St. John's, Vancouver, and a string of smaller fields took them in.

At the Pentagon there was no building-wide warning system that a plane was coming. There was no PA order to evacuate, or any understanding of potential threat to the Pentagon itself. Television in some Pentagon offices showed the Towers in New York and workers watched in horror, never conceiving of the possibility they were next.

Master Sergeant Max Beilke was in a west-side meeting room discussing retiree and family benefits. Cheryle Sincok was at her Army desk. Her husband, Craig, had called her about 8:30. Her head was pounding, she said, but she would not go home. He told her he loved her and that he had a meeting in Rosslyn. That was the last time they spoke.

At 9:37 American 77 hit the Pentagon's west face--Wedge 1, the newly rebuilt and only partly occupied slice, low on the outer ring. The aircraft came in under the approach paths people in the building were used to seeing from Reagan National and did not look suspicious at first.

Two miles away in Rosslyn, Craig Sincok felt the ground shudder. He looked out, saw the first plume of smoke and he heard a television announcement from another room report that the Pentagon's south parking lot had been hit. He knew that was Cheryle's side of the building. He ran the two miles, through Arlington National Cemetery. He went to where her windows should have been and told himself the section was intact. But as he stood there and looked, he realized it was not. Her office had taken a direct hit. Security and fire lines kept him at the parking lot and would not let him go further. He stayed into

the night, praying at the side of the building. Official word that she was missing came to him the next morning.

American Aviators: Defending the Skies on 9/11

The morning of 9/11/2001, after Boston Center reported a hijacking, two F-15s of the Massachusetts Air National Guard's 102nd Fighter Wing scrambled from Otis on Cape Cod. Lt. Col. Timothy Duffy and Maj. Daniel Nash were airborne about 8:53 a.m.—too late to catch either of the hijacked jets bound for the Twin Towers. They spent the

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rest of the morning in combat air patrol over New York.

Minutes after the second tower was hit, **NORAD sent F-16s of the 119th Fighter Wing, on alert at Langley in Virginia**, toward the Washington area. Maj. Dean Eckmann, Lt. Col. Brad Derrig, and Capt. Craig Borgstrom launched about 9:30, first pointed at Baltimore, then the capital, and became the fighters positioned between the city and any airliner still inbound from the west.

At Andrews, the D.C. Air National Guard was not on that NORAD alert board. After the Pentagon was hit, Lt. Col. Marc "Sass" Sasseville and 1st Lt. Heather "Lucky" Penney, age 26, of the 121st Fighter Squadron were scrambled. There was no time to load live missiles or do pilot pre-flight checks. They grabbed their gear, ran to the planes and took off about 10:42 with only training rounds. Controllers had lost United 93 when its transponder turned off after the airliner had hooked around and headed for Washington DC. As the radar target disappeared, there was a strong possibility that the circuit board had been pulled in the cockpit to "go dark" to DC. With the Pentagon already hit, the likely target was the White House.

Just before take-off, Lt. Col. Sasseville told 1st Lt. Penney that he would take the cockpit if they had to stop the hijacked airliner, she would take the tail. She said, "understood," and they went airborne, with the only weapons they had—the F-16s themselves. They soared over the Pentagon & saw the smoke, scoured the area, looking up and down the Potomac for low level planes and found no 757. The whereabouts of United 93 were still unknown.



Pentagon West Wedge on September 11, 2001 after impact of Hijacked American Flight 77
Image: Department of War

The Heroes of Flight 93

When United 93 was still west of Pennsylvania, the hijacking began--about 9:27 a.m. Bloomington, Minnesota native **Tom Burnett** called his wife Deena from first class. They were able to make four Airfone calls to each other. This is the official FBI transcript from Deena's testimony, which she gave based on detailed notes she wrote down as she and Tom spoke:

First call — 9:27 a.m. Eastern

She: "Tom, are you O.K.?"

He: "No, I'm not. I'm on an airplane that has been hijacked."

She: "Hijacked?"

He: "Yes. They just knifed a guy."

She asked if it was a passenger; he said yes, told her to listen:

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He: "United Flight 93, Newark to San Francisco, still in the air. The hijackers have already knifed a guy, one of them has a gun, they are telling us there is a bomb on board, please call the authorities."

He hung up. She called 911.

Second call — 9:34 a.m. (on call-waiting while Deena was on the phone with authorities)

He: "They're in the cockpit. The guy they knifed is dead."

She: "He's dead?"

He: "Yes. I tried to help him, but I couldn't get a pulse."

She told him planes were being hijacked up and down the East Coast and that two had hit the World Trade Center.

She heard him tell someone near him it was a suicide mission. He asked about other planes, said they had to do something, that he was putting a plan together.

She asked who was helping.

He: "Different people. Several people. There's a group of us. Don't worry. I'll call you back."

Third call — 9:45 a.m.

She thought for a moment he had survived something on the ground. He said he was not O.K.

She told him a plane had just hit the Pentagon. He repeated that to people around him.

He talked about turning, about fields, about taking the plane back.

Fourth call — 9:54 a.m.

He asked if anything was new [with more terror attacks], asked where the kids were.

She said the girls wanted to talk.

He: "Tell them I'll talk to them later."

He said they were waiting until they were over a rural area. "We're going to take back the plane."

Deena, from old airline-attendant training, told him to sit still and not draw attention.

He: "Deena! If they're going to crash this plane into the ground, we're going to have to do something!"

He asked her to pray. That was the last time they spoke.

On the same plane with Tom Burnett, passenger **Todd Beamer** made an Airfone call about 9:45 a.m. to GTE supervisor, Lisa Jefferson. Deena Burnett's testimony places Beamer's call to Jefferson after he and others on the plane had made a plan to rush the cockpit when the time was right, before hijackers could make a suicide crash into Washington, DC. Todd stayed on the line with Lisa about 13 minutes. Describing the hijacking, he said the pilots "were down" and passengers had been moved to the back of the plane. Todd asked her to pray the Lord's Prayer with him and she did. Finally, he asked her to call his wife.

Before he hung up, Lisa Jefferson heard Todd talk to the people beside him, saying: "Are you guys ready? Let's roll."

The call ended at 9:57 a.m.

At 9:57 the cockpit recorder picked up a fight. A group of passengers began to enter the cockpit to fight the hijackers. The FBI recovered the cockpit recorder from the crash site crater on September 14, 2001. The audio was copied and transcribed by both the **NTSB** and **Honeywell** technicians. The families of Flight 93 passengers and crew listened to the full audio recording from the cockpit recorder in April 2002. The audio files are not allowed for public release, but the transcripts are available. We have chosen not to print the cockpit recorder transcripts in this issue of the Relay out of respect for the families of Flight 93, because the Arabic comments made by the hijackers are very disturbing.

The flight data recorder, which is a separate orange "box" from the cockpit recorder shows an initial hijacking struggle about 9:28. The jet dives roughly 700 feet in half a minute. Autopilot is set east about 9:35. By 9:43 it is near 27,000 feet; by 9:54, it is already down to about 10,000 feet in elevation. When passengers reach the cockpit, the airplane is rolled and pitched. About 10:01 a.m., the violent maneuvering eases. At 10:02:49 the control wheel goes hard right and the aircraft dives over Pennsylvania.

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Osama bin Laden failed. He wanted Flight 93 to hit the White House, and if that proved too difficult, the Capitol building. Flight 93 did not reach Washington, DC that day as originally planned. The heroic passengers of Flight 93 thwarted the attack on Washington DC, knowing full well what they were doing. They waited until the plane was over a rural area and wrestled with four hijackers who'd already stabbed and killed. United Flight 93 impacted a field near Shanksville, Pennsylvania at 10:03:a.m.



Members of the FBI hold the Cockpit Voice Recorder from Flight 93 after it was recovered at the Shanksville, PA crash site on September 14, 2001.
Image courtesy of Department of Justice, Federal Bureau of Investigation

After DC National Guard pilots Sasseville and Penney had been airborne a while, they were told the Flight 93 crash was confirmed as crashed in Pennsylvania. The heroic passengers had done what Sasseville and Penney intended to do, sacrifice their own lives to stop the hijacked jet from killing even more Americans.

Their job shifted to maintaining the Capital's cleared airspace. They landed, armed the jets, and went back up—this time for combat air patrol, in case anything else was still coming. Hours into their patrol, over the encrypted radio, they were told Air Force One was inbound to Andrews and they were to escort it in.

In ordinary times the presidential aircraft kept escort fighters well out. That evening, Lt. Col. Sasseville flew close, off the left wing of Air Force One. First Lt. Penney was positioned just ahead of Air Force One's cockpit. Photographs of the escort

show how close the Guard jets were allowed to stay on a day when nothing in the sky was assumed safe. **Air Force One landed at Andrews at 6:42 p.m. with President George W. Bush boarding Marine One quickly thereafter. Then the President was back in the White House.**

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Lt. Col. Sasseville in his F-16 escorting Air Force One back to Washington, DC on September 11, 2001.

This image is credited to President George W. Bush himself and was archived by the Office of White House Management, Photography Office.

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Terrorists Among Us: The 9/11 Plot

The 9/11 attacks were planned by al-Qaeda, the network led by Osama bin Laden. Khalid Sheikh Mohammed developed the airliner plot. Nineteen men boarded the four flights. A twentieth man, Zacarias Moussaoui, was already in a Minnesota jail. Fifteen of the nineteen were from Saudi Arabia.

The four 9/11 hijacker pilots had lived in Hamburg, Germany, and trained in Afghanistan:

Mohamed Atta, the tactical leader and pilot of American 11, was from Egypt.

Marwan al-Shehhi, pilot of United 175, and Fayez Banihammad were from the United Arab Emirates.

Ziad Jarrah, pilot of United 93, was from Lebanon.

Hani Hanjour, pilot of American 77, was Saudi.

They entered the United States legally, almost all on short-term tourist or business (B-1/B-2) visas. Hanjour used a student visa and did not attend the school listed on it. Two men later overstayed. Between late 1999 and the summer of 2001 they passed immigration dozens of times.

January 15, 2000.

The first to arrive were Nawaf al-Hazmi and Khalid al-Mihdhar, Saudis, at Los Angeles from Bangkok, admitted as tourists. They settled in Southern California, later San Diego, and were on American 77.

Late May–June 2000.

The Hamburg pilots entered: al-Shehhi at Newark (May 29), Atta at Newark (June 3), Jarrah at Atlanta (June 27). They took flight lessons in Florida, lived in cheap rentals, and moved in and out of the country. Jarrah crossed the border seven times.

December 2000. Hanjour entered at Cincinnati on the student visa and went on to San Diego, then Arizona flight schools.

April–June 2001.

The remaining “muscle” hijackers arrived in pairs and one trio, mostly through Florida and the East Coast, on tourist visas. They took gym memberships, bought tickets in late August, and stayed near the departure cities.

On September 11, 2001 they split: five on American 11, five on United 175, five on American 77, four on United 93. A fifth man intended for Flight 93, Ramzi bin al-Shibh, never got a U.S. visa.

Minnesota, August 2001

Zacarias Moussaoui, a French citizen of Moroccan descent, entered the United States in February 2001 on a visa and took lessons at a flight school in Norman, Oklahoma. He did not finish.

In August he was driven to Eagan, Minnesota to the Pan Am International Flight Academy, which trained airline crews on simulators. He paid thousands of dollars in cash for Boeing 747-400 simulator time. He had no airline background. Instructors found him odd. One later told the FBI he wanted only limited simulator work and called it an “ego boosting thing.”

On August 15, 2001, a Pan Am employee called the FBI’s Minneapolis office. Agents opened an intelligence case. On August 16 Moussaoui was arrested on an immigration overstay, but agents felt there was more. Minneapolis FBI asked DC Bureau headquarters for a warrant to search his belongings and computer. Headquarters said would not approve a Foreign Intelligence Surveillance Act warrant on the evidence they had. The search of Moussaoui’s communications did not happen before September 11.

After September 11th, the case became a focus of public outcry. FBI Special Agent Coleen Rowley worked at the Minneapolis field office as the Chief Division Counsel. She was the lawyer who advised the Minneapolis agents to request an immediate search warrant for Moussaoui’s electronics and belongings in August of 2001. After the terror attack, she penned a long memo to FBI Director Robert Mueller criticizing how FBI headquarters handled that crucial request. The memo itself became public, and she later testified before the Senate on the matter.

The al-Qaeda Plot was examined step by step:

Legal entry to avoid suspicion, pilots first, muscle later. Gradually situate participants close to their geographical activation point one by one, so that they could book and board the flights without detection.

Their weak spot was the cash-paying simulator student in Eagan, Minnesota whose demeanor attracted suspicion, prompting a Minnesota flight school call to the Minneapolis FBI.

The sad and shocking reality of the timeline became clear. There had been enough time to stop the terror attack from happening. Had the Minneapolis FBI field office been granted the search warrant they asked for, they could have foiled the plot three and a half weeks before the attack.

Because Moussaoui did not succeed in joining the 19 hijackers on the planes, he stood trial and was eventually convicted in 2006 of conspiring with al-Qaeda in the 9/11 terror plot. A federal judge in Alexandria,

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Virginia, sentenced Moussaoui to six consecutive life terms without parole. On May 13, 2006, he was moved to the federal Supermax Prison ADX Florence in Colorado, the highest-security U.S. penitentiary. The Fourth Circuit affirmed the conviction and sentence in 2010 and he is still there. The Justice Department has denied at his request to serve the rest of the sentence in France. He remains the only person convicted in a U.S. courtroom for a role in the September 11, 2001 al-Qaeda terror plot.

Al-Qaeda leader Osama bin Laden was killed by U.S. forces on May 2, 2011, in Abbottabad, Pakistan. Hijacking plotter Khalid Sheikh Mohammed was captured in Pakistan in 2003, has been held at Guantánamo Bay since 2006, and is scheduled to stand trial before a military commission there in June 2028.

Minnesota Reflections

Father Jeff Ethen and Father Peter Kirchner of St. Cloud never sat down at Windows on the World. The late flight, the nuns at Leo House, and a second cup of coffee kept them twenty blocks north. They put on their collars and walked to St. Vincent's Hospital. Cardinal Edward Egan later called them the visiting Minnesota Twins. They blessed the wounded and the firefighters who still came in. The next day they sat with families at the missing-persons bureau. They have gone back for the first, fifth, tenth, and fifteenth anniversaries. In 2026 Ethen returned again, this time with Battle Lake firefighters who had formed a bond with an FDNY house. Kirchner, in poorer health, asked only to be mentioned. Ethen said he never has forgotten, and never will.

Scott Meyer of White Bear Lake woke in a Midtown hotel the Rangers had taken after a double-booking pulled the team off a World Trade Center property. He saw the first tower burn on television, left the high floor, and walked toward Madison Square Garden. Training camp moved to Rye. The Rangers ended up cutting him, but he played in Hartford and later retired to Minnesota with family.

He later talked about the witnessing Rangers Captain Mark Messier wearing an FDNY chief's helmet at the October 7, 2001 home opener in Madison Square Garden, how it was overwhelming for everyone there and watching. The game was Rangers vs Buffalo Sabres and both clubs wore special "New York" jerseys, later auctioned for 9/11 relief organizations.

Craig Sonnenberg of Perham watched from Midtown, near Grand Central. He saw the stricken Towers standing, then obscured by the smoke, then to his horror, collapsing.

He stayed in New York until 2005, and moved to Virginia, then St. Louis with his wife and daughters. In 2001 newspaper Perham Focus asked Sonnenberg to write what he had seen from Midtown. He did. On the tenth anniversary, September 2011, the paper ran his follow-up: "Remembering 9/11: Perham grad reflects on being in New York City during attacks." He gave readers an update on his life, said he had watched the towers with his own eyes and that he had been profoundly fortunate not to be one of the people at Ground Zero.

Scott Wallace of St. Paul's East Side, living in Woodbury, **was the one Minnesotan who walked out of a tower.** A Deloitte meeting that was supposed to be near the top of the North Tower had been moved to 63. He was coming back from a window when American 11 struck twelve floors above him. He went down the stairs through jet-fuel fumes, passed firefighters climbing, and reached the plaza. He called home an hour and half later and wept with his wife and children. He said he still thinks of the eleven men from Rescue 1 who kept going up.

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LEFT: Firefighters on September 11, 2001 move engines and equipment through the early aftermath of the WTC Twin Towers terror attack. RIGHT: Firefighter at Ground Zero asks for 10 more firefighters. Images: Public Domain

Minnesota Remembers 9/11 continued from page 22

Sandra Conaty Brace was at her desk for Marsh & McLennan on the 94th floor of the North Tower, in the path of the first plane, she did not escape. Gordy Aamoth Jr. of Wayzata was on the 104th floor of the South Tower for Sandler O'Neill. He called home after the North Tower was hit and said he was all right. Unfortunately, his family never heard from him again.

Gary Koecheler, St. Paul born, a Vietnam veteran and bond broker, was on Euro Brokers' 84th floor in the South Tower, in the second impact zone and did not escape. Robert Rasmussen, whose mother lived in Hawley, Minnesota, called his wife from the 78th-floor sky lobby and said he was fine. He was later seen on a landing far below, still trying to get out. He was never seen again.

At the Pentagon, **Master Sergeant Max Beilke** was in a west-side meeting that had been moved to the 11th. It was there that he perished. **Cheryle Sincock** of Currie, Minnesota, was at her Army desk and her office took a direct hit. She did not survive.

Twenty-five years later, the Minnesotan names who lost their lives on September 11th are not in only in one place. They are cut into bronze in New York, into benches beside the Pentagon, into marble in a Pennsylvania field, and into stone at Arlington. Some also stand closer to home—on a lakeshore in Wayzata, at a flag in Bloomington, in a cemetery at Fort Snelling. The following list is a map of where we can find the Minnesota people this story has followed, and where Minnesotans still see, touch, and say their names.

9/11 Memorials where Minnesotans are Remembered

National September 11 Memorial (the reflecting pools), Lower Manhattan, New York

Gordon M. Aamoth Jr. (South Pool, S-49)
Sandra Conaty Brace (North Pool, N-18)
Gary Edward Koecheler
Robert A. Rasmussen
Jessica Leigh Sachs (American 11)
Robert G. LeBlanc (United 175)
Charles F. Burlingame III (South Pool, S-69, with Flight 77)
Thomas E. Burnett Jr. (South Pool, S-68, with Flight 93)
Max J. Beilke (South Pool, S-1, with the Pentagon)
Cheryle D. Sincock (Pentagon grouping on the South Pool)

The bronze parapets carry every 9/11 victim, including those who died at the Pentagon and on the four planes, not only people who died in New York.

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Master Chief Petty Officer of the Navy Russell Smith looks into one of two reflecting pools located at the National September 11 Memorial. The National September 11 Memorial is a tribute of remembrance and honor to the 2,977 people killed in the terror attacks of September 11, 2001 Image: US Navy

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National 9/11 Pentagon Memorial, Arlington, Virginia

Master Sergeant Max J. Beilke
Cheryle D. Sincok
Capt. Charles F. Burlingame III (Flight 77)

Each of the 184 who died at the Pentagon offices or on American 77 has a cantilevered memorial bench. Beilke, Sincok, and Burlingame are among them.

Flight 93 National Memorial, Stonycreek Township near Shanksville, Pennsylvania

Thomas E. Burnett Jr. His name is cut into the white marble Wall of Names with the other 39 passengers and crew.



Flight 93 National Memorial Shanksville, PA

A Field of Honor Forever

Remember those who gave their lives to save the lives of countless others. The sacrifices made and courageous actions of the passengers of Flight 93 will never be forgotten.

Arlington National Cemetery, Arlington, Virginia

Capt. Charles F. Burlingame III — individual grave, Section 35
Master Sergeant Max J. Beilke — interred at Arlington

Victims of Terrorist Attack on the Pentagon Memorial (Section 64 group burial marker)

all 184 Pentagon and Flight 77 names, including Burlingame, Beilke, and Cheryle D. Sincok Burlingame received a waiver for a private grave. The pentagonal granite marker in Section 64 lists everyone who died in that attack.

U.S. Capitol, East Front Vestibule (Flight 93 Memorial Plaque)

Thomas E. Burnett Jr. is among the plaque that names all of Flight 93's passengers and crew, because the terror plot had the US Capitol as a target if the White House wasn't possible.

Minnesota Memorial & Burial Sites

Wayzata 9/11 Memorial, Panoway on Lake Minnetonka

Dedicated in remembrance of the attacks, with a specific inscription from the Aamoht family in remembrance of Gordy McCannel Aamoht Jr.

Burnett Flag & Memorial Plaque - Bloomington, Minnesota

Thomas E. Burnett Jr. (burial) - Fort Snelling National Cemetery Minneapolis

Gordon M Aamoht Jr. (burial) - Lakewood Cemetery, Minneapolis

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We Will Never Forget

One World Trade Center—the tower we now call Freedom Tower—stands in the same WTC complex, near Ground Zero—where the skyline was cut open. Freedom Tower does not erase the morning of September 11th. It answers it. The terrorist attack that tried to break our Country's spirit, only served to band us together, stronger than ever. We built again—a tower that soared even higher. We went on working, flying, worshiping, and sending our children to school.

On this twenty-fifth anniversary the flags will be at half-staff and the names will be read in New York, at the Pentagon, in a Pennsylvania field, and in small towns in Minnesota. That is not ceremony for its own sake. It is a promise. We will never forget the first responders who climbed while others ran, the cooks and servers at Windows on the World, the maintenance crews, the office workers and brokers, the military and civil servants at their desks, the pilots and flight attendants who gave their all. We will not forget the passengers who fought for the cockpit so that other Americans could live on. We will not forget the Minnesotans whose names are on those walls and all who walked out and still carry that day forever in their hearts.

The attackers tried to instill fear in us as a nation, and change the way we live our lives. But they could not touch the American Spirit that never shrinks back in the face of adversity. We always stand up, we always fight back. We always prevail, so that those who gave their lives that we might live are honored every day in the unbreakable Spirit that endures in our great Republic.



LEFT: Heather Penney as a student or newly winged pilot beside a T-38 Talon supersonic trainer, circa 2000, about a year before 9/11. Image: Heather Penney

BELOW: Air Force Lt. Gen. Marc Sasseville, the 128th vice chief of the National Guard Bureau, stands at the National 9/11 Pentagon Memorial in Arlington, Va. Aug. 31, 2021. Image: EJ Hersom, DOD



**The amphibious transport dock ship
USS New York sails on the Hudson River in
New York, Nov. 2, 2009.**

**The bow stem of the USS New York
is made of 7.5 tons of steel
recovered from Ground Zero.**

**The Navy honored the victims of the 9/11
attacks by naming three amphibious
transport dock ships: the USS New York, USS
Arlington and USS Somerset.**

Photo Credit: Courtesy of Bob Kopprasch



Contest Calendar - September 2026

+ Worldwide Sideband Activity Contest	0100Z-0159Z, Sep 1
+ QCX Challenge	0300Z-0400Z, Sep 1
+ ICWC Medium Speed Test	0300Z-0400Z, Sep 1
+ Tuesday's Telegraphy Contest	1930Z-2020Z, Sep 1
+ Phone Weekly Test	0230Z-0300Z, Sep 2
+ A1Club AWT	1145Z-1300Z, Sep 2
+ CWops Test (CWT)	1300Z-1400Z, Sep 2
+ VHF-UHF FT8 Activity Contest	1700Z-2100Z, Sep 2
+ Mini-Test 40	1700Z-1759Z, Sep 2
+ Mini-Test 80	1800Z-1859Z, Sep 2
+ CWops Test (CWT)	1900Z-2000Z, Sep 2
+ UKEICC 80m Contest	2000Z-2100Z, Sep 2
+ VHF-UHF FT8 Activity Contest-NA	0000Z-0500Z, Sep 3
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Sep 3 and 0200Z-0300Z, Sep 4
+ CWops Test (CWT)	0300Z-0400Z, Sep 3
+ CWops Test (CWT)	0700Z-0800Z, Sep 3
	1700Z-1800Z, Sep 3 (CW) and 1800Z-1900Z, Sep 3 (SSB) and 1900Z-2000Z, Sep 3 (FM) and 2000Z-2100Z, Sep 3 (Dig)
+ NRAU 10m Activity Contest	2000Z-2200Z, Sep 3
+ SKCC Sprint Europe	0100Z-0130Z, Sep 4
+ NCCC FT4 Sprint	0145Z-0215Z, Sep 4
+ Weekly RTTY Test	0230Z-0300Z, Sep 4
+ NCCC Sprint Ladder	2000Z-2100Z, Sep 4
+ K1USN Slow Speed Test	0000Z, Sep 5 to 2359Z, Sep 6
+ ARRL EME Contest	0000Z, Sep 5 to 2400Z, Sep 6
+ All Asian DX Contest, Phone	0000Z-0359Z, Sep 5
+ CWOps CW Open	

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Contest Calendar - September 2026

+ Wake-Up! QRP Sprint

+ SARL VHF/UHF FM Contest

+ SARL Field Day Contest

+ Russian RTTY WW Contest

+ CWOps CW Open

+ IARU Region 1 Field Day, SSB

+ RSGB SSB Field Day

+ AGCW Straight Key Party

+ IARU Region 1 145 MHz Contest

+ PODXS 070 Club Jay Hudak Memorial 80m Sprint

+ CWOps CW Open

+ WAB 144 MHz Phone

+ Tennessee QSO Party

+ K1USN Slow Speed Test

+ ICWC Medium Speed Test

+ OK1WC Memorial (MWC)

+ RSGB 80m Autumn Series, SSB

+ ICWC Medium Speed Test

+ MI QRP Labor Day CW Sprint

+ ARS Spartan Sprint

+ Worldwide Sideband Activity Contest

+ ICWC Medium Speed Test

+ DARC CW-Training Contest

+ Tuesday's Telegraphy Contest

+ Phone Weekly Test

+ A1Club AWT

0600Z-0629Z, Sep 5 and

0630Z-0659Z, Sep 5 and

0700Z-0729Z, Sep 5 and

0730Z-0800Z, Sep 5

0800Z, Sep 5 to 1000Z, Sep 6

0800Z, Sep 5 to 1000Z, Sep 6

1200Z, Sep 5 to 1159Z, Sep 6

1200Z-1559Z, Sep 5

1300Z, Sep 5 to 1259Z, Sep 6

1300Z, Sep 5 to 1300Z, Sep 6

1300Z-1600Z, Sep 5

1400Z, Sep 5 to 1400Z, Sep 6

2000Z, Sep 5 to 1959Z, Sep 6

2000Z-2359Z, Sep 5

1000Z-1400Z, Sep 6

1700Z, Sep 6 to 0300Z, Sep 7

0000Z-0100Z, Sep 7

1300Z-1400Z, Sep 7

1630Z-1729Z, Sep 7

1900Z-2030Z, Sep 7

1900Z-2000Z, Sep 7

2300Z, Sep 7 to 0300Z, Sep 8

0000Z-0200Z, Sep 8

0100Z-0159Z, Sep 8

0300Z-0400Z, Sep 8

1800Z-1859Z, Sep 8

1930Z-2020Z, Sep 8

0230Z-0300Z, Sep 9

1145Z-1300Z, Sep 9

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Contest Calendar - September 2026

+ CWops Test (CWT)	1300Z-1400Z, Sep 9
+ VHF-UHF FT8 Activity Contest	1700Z-2100Z, Sep 9
+ Mini-Test 40	1700Z-1759Z, Sep 9
+ Mini-Test 80	1800Z-1859Z, Sep 9
+ CWops Test (CWT)	1900Z-2000Z, Sep 9
+ VHF-UHF FT8 Activity Contest-NA	0000Z-0500Z, Sep 10
+ CWops Test (CWT)	0300Z-0400Z, Sep 10
+ CWops Test (CWT)	0700Z-0800Z, Sep 10
+ NCCC FT4 Sprint	0100Z-0130Z, Sep 11
+ Weekly RTTY Test	0145Z-0215Z, Sep 11
+ NCCC Sprint Ladder	0230Z-0300Z, Sep 11
+ K1USN SST Open	2000Z-2359Z, Sep 11
+ WAE DX Contest, SSB	0000Z, Sep 12 to 2359Z, Sep 13
+ SKCC Weekend Sprintathon	1200Z, Sep 12 to 2400Z, Sep 13
+ Colorado QSO Party	1400Z, Sep 12 to 0359Z, Sep 13
+ New Jersey QSO Party	1400Z, Sep 12 to 0200Z, Sep 13
+ Ohio State Parks on the Air	1400Z-2200Z, Sep 12
+ Africa FT4 DX Contest	1500Z-1800Z, Sep 12
+ ARRL September VHF Contest	1800Z, Sep 12 to 0300Z, Sep 14
+ North American Sprint, CW	0000Z-0400Z, Sep 13
+ IRTS 70cm Counties Contest	1300Z-1330Z, Sep 13
+ IRTS 2m Counties Contest	1330Z-1500Z, Sep 13
+ 4 States QRP Group Second Sunday Sprint	0000Z-0200Z, Sep 14
+ K1USN Slow Speed Test	0000Z-0100Z, Sep 14
+ ICWC Medium Speed Test	1300Z-1400Z, Sep 14
+ OK1WC Memorial (MWC)	1630Z-1729Z, Sep 14
+ ICWC Medium Speed Test	1900Z-2000Z, Sep 14
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Sep 15
+ ICWC Medium Speed Test	0300Z-0400Z, Sep 15

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Contest Calendar - September 2026

+ Tuesday's Telegraphy Contest	1930Z-2020Z, Sep 15
+ Phone Weekly Test	0230Z-0300Z, Sep 16
+ A1Club AWT	1145Z-1300Z, Sep 16
+ CWops Test (CWT)	1300Z-1400Z, Sep 16
+ VHF-UHF FT8 Activity Contest	1700Z-2100Z, Sep 16
+ Mini-Test 40	1700Z-1759Z, Sep 16
+ Mini-Test 80	1800Z-1859Z, Sep 16
+ RSGB 80m Autumn Series, CW	1900Z-2030Z, Sep 16
+ CWops Test (CWT)	1900Z-2000Z, Sep 16
+ VHF-UHF FT8 Activity Contest-NA	0000Z-0500Z, Sep 17
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Sep 17 and 0200Z-0300Z, Sep 18
+ NAQCC CW Sprint	0030Z-0230Z, Sep 17
+ CWops Test (CWT)	0300Z-0400Z, Sep 17
+ CWops Test (CWT)	0700Z-0800Z, Sep 17
+ BCC QSO Party	1800Z-1959Z, Sep 17
+ NTC QSO Party	1900Z-2000Z, Sep 17
+ NCCC FT4 Sprint	0100Z-0130Z, Sep 18
+ Weekly RTTY Test	0145Z-0215Z, Sep 18
+ NCCC Sprint	0230Z-0300Z, Sep 18
+ AGB NEMIGA Contest	1600Z-1700Z, Sep 18
+ K1USN Slow Speed Test	2000Z-2100Z, Sep 18
+ FRAPR 10M Contest	0000Z, Sep 19 to 2359Z, Sep 20
+ ARRL 10 GHz and Up Contest	0900Z, Sep 19 to 0759Z, Sep 21
+ Scandinavian Activity Contest, CW	1200Z, Sep 19 to 1200Z, Sep 20
+ Texas QSO Party	1400Z, Sep 19 to 0200Z, Sep 20 and 1400Z-2000Z, Sep 20
+ Iowa QSO Party	1400Z, Sep 19 to 0200Z, Sep 20
+ QRP Afield	1500Z-2100Z, Sep 19

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Contest Calendar - September 2026

+ New Hampshire QSO Party

+ Washington State Salmon Run

+ Wisconsin Parks on the Air

+ Feld Hell Sprint

+ North American Sprint, RTTY

+ ARS Flight of the Bumblebees

+ BARTG Sprint PSK63 Contest

+ Run for the Bacon QRP Contest

+ K1USN Slow Speed Test

+ ICWC Medium Speed Test

+ OK1WC Memorial (MWC)

+ ICWC Medium Speed Test

+ 144 MHz Fall Sprint

+ Worldwide Sideband Activity Contest

+ ICWC Medium Speed Test

+ Tuesday's Telegraphy Contest

+ SKCC Sprint

+ Phone Weekly Test

+ A1Club AWT

+ CWops Test (CWT)

+ Mini-Test 40

+ Mini-Test 80

+ CWops Test (CWT)

+ CWops Test (CWT)

+ CWops Test (CWT)

+ RSGB 80m Autumn Series, Data

+ NCCC FT4 Sprint

1600Z, Sep 19 to 0400Z, Sep 20 &
1200Z-2200Z, Sep 20

1600Z, Sep 19 to 0700Z, Sep 20 &
1600Z-2400Z, Sep 20

1600Z-2300Z, Sep 19

1800Z-1959Z, Sep 19

0000Z-0400Z, Sep 20

1700Z-2100Z, Sep 20

1700Z-2059Z, Sep 20

2300Z, Sep 20 to 0100Z, Sep 21

0000Z-0100Z, Sep 21

1300Z-1400Z, Sep 21

1630Z-1729Z, Sep 21

1900Z-2000Z, Sep 21

2300Z, Sep 21 to 0600Z, Sep 22

0100Z-0159Z, Sep 22

0300Z-0400Z, Sep 22

1930Z-2020Z, Sep 22

0000Z-0200Z, Sep 23

0230Z-0300Z, Sep 23

1145Z-1300Z, Sep 23

1300Z-1400Z, Sep 23

1700Z-1759Z, Sep 23

1800Z-1859Z, Sep 23

1900Z-2000Z, Sep 23

0300Z-0400Z, Sep 24

0700Z-0800Z, Sep 24

1900Z-2030Z, Sep 24

0100Z-0130Z, Sep 25

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Contest Calendar - September 2026

+ Weekly RTTY Test	0145Z-0215Z, Sep 25
+ NCCC Sprint	0230Z-0300Z, Sep 25
+ K1USN Slow Speed Test	2000Z-2100Z, Sep 25
+ CQ Worldwide DX Contest, RTTY	0000Z, Sep 26 to 2400Z, Sep 27
+ Bill Windle QSO Party	0000Z-2359Z, Sep 26
+ YU DX Contest	1200Z, Sep 26 to 1159Z, Sep 27
+ Maine QSO Party	1200Z, Sep 26 to 1200Z, Sep 27
+ AGCW VHF/UHF Contest	1400Z-1700Z, Sep 26 (144) and 1700Z-1800Z, Sep 26 (432)
+ Masonic Lodges on the Air	1400Z-2200Z, Sep 26
+ AWA Amplitude Modulation QSO Party	2000Z, Sep 26 to 2400Z, Sep 27
+ UBA ON Contest, 6m	0700Z-1000Z, Sep 27
+ K1USN Slow Speed Test	0000Z-0100Z, Sep 28
+ QCX Challenge	1300Z-1400Z, Sep 28
+ ICWC Medium Speed Test	1300Z-1400Z, Sep 28

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of this calendar! Visit Bruce at
www.contestcalendar.com/contestcal.html

The ARAC RELAY



Published monthly and distributed free to members, "The RELAY" is the official publication of the Arrowhead Radio Amateur Club, Inc. Members are encouraged to submit articles, opinions, and classifieds. Your submission will be placed as soon as possible providing it does not conflict with the bylaws of the Arrowhead Radio Amateur Club, Inc. The editors reserve the right to omit any submission that is not a required item. If a submission is questionable, it will be presented to the Board of Directors at the next scheduled board meeting for authorization.



ARAC Official Website <http://www.thearac.org>

Carlton County ARES/RACES

FALLFEST 2026

Sept 26th, 2026 9:00a.m. to Noon

4 Seasons Sports Facility on Highway 210 in Carlton.

90 Chestnut Ave, Carlton, MN 55718

Located on Highway 210, 2 miles East of I-35 going towards Carlton. Under the water tower!

Admission: \$3 (12 & under FREE) Free parking!

Used radios, electronic equipment, supplies, & other Ham radio gear.

Door prizes, free coffee, \$100 Grand Prize.

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Attention Dealers, Vendors, and Hams with good stuff!

Tables available. Reserve yours today: 8' table: \$4

Vendor setup starts at 7AM Saturday.

Table Reservations

John Cavanaugh KC0AFE

johnxcavanaugh@yahoo.com

Cliff Tanner AC0FO

cliff.tanner@gmail.com

Talk-in on W0GKP Repeater

146.940 (-) [103.5] - Duluth

147.000 (-) [103.5] - Mahtowa