

# SJRA 2020 ARRL FIELD DAY

## Operation:

Due to the emergency caused by the COVID-19 pandemic, the SJRA did not operate in our traditional 7A mode. Instead we wanted to demonstrate that we could adapt as a wide area coordinated group to pass messages in the spirit of Field Day. Considering the need to keep club members and the general public safe, we deemed it was in the best interest of all concerned to operate remotely with a centralized and coordinated operation via use of networked logging and coordination software over the internet. The SJRA operated as a Class 7D with seven stations functioning simultaneously operating under the call sign of K2AA. All seven stations were connected via Hamachi VPN for real time logging and zoom meeting was used for coordination during the entire field day. The seven home-based stations used commercial mains power (except for the five QSO's done with alternate power). Because the club member's stations are spread out over a local area, we did not follow the 1000-foot radius requirement instead we followed the ARRL 175 mile club aggregate rules for HF contests.

To that end we successfully executed a wide area "Home Station" group effort, that would fit the pandemic emergency that we are currently in. If necessary, we could have easily provided emergency power at all of our stations. We may do this in the future.

Our bonus point summary follows.

## SJRA/K2AA 2020 ARRL Field Day Bonus Points Support Document

To: ARRL Field Day 2020 Staff Personnel

From: Ken Botterbrodt, K2WB, Field Day Chairman, South Jersey Radio Association (K2AA), and assembled by Al Ziegler, KD2ST, SJRA Member.

Date: July 18, 2020

**Summary.** The following sections provide documentation of the South Jersey Radio Association (SJRA) efforts for bonus points for ARRL Field Day 2020. We believe we have satisfied the requirements for **1,190 bonus points**. The list below provides the summary of bonus points that we are claiming.

7.3.2	Media Publicity .....	= 100 points
7.3.5	Originating Message to ARRL Section Manager .....	= 100 points
7.3.6	Message Handling (10 messages) .....	= 100 points
7.3.7	Satellite Contact .....	= 100 points
7.3.8	Five Alternate Power QSO's .....	= 100 points
7.3.9	Copied WIAW Field Day Bulletin .....	= 100 points
7.3.10	Educational Activity .....	= 100 points
7.3.11	Site Visit by Elected Invited Government Off .....	= 100 points
7.3.12	Site Visit by Rep of ARES-Served Agency.....	= 100 points
7.3.14	Web Submission – Entry Submitted .....	= 50 points
7.3.15	Field Day Youth Participation – 2 Youth Contacts .....	= 40 points
7.3.16	FD Social Media Publicity .....	= 100 points
7.3.17	FD Safety Officer Bonus .....	= 100 points

## SJRA 2020 ARRL FIELD DAY

### Individual Descriptions of Bonus Point Efforts

#### 7.3.2 SJRA (K2AA) Bonus Points Claim for Media Publicity for Field Day 2020

The South Jersey Radio Association (K2AA) Field Day effort for 2020 solicited media coverage for its operation. Ken Botterbrodt, our club president and Field Day chairman sent out a press release by mail and email to several newspapers, radio stations, and politicians. Included was the Courier-Post. Included below is a copy of the K2AA/SJRA Publicity Notice for Field Day for 2020 that was sent to the Courier-Post. In accordance with the 2020 Field Day rules for bonus points (section 7.3.2), SJRA claims 100 bonus points for media publicity.

#### News Release

June 23, 2020 – Immediate Release  
Additional Contact information contact:  
Ken Botterbrodt  
15 Pelham Road  
Marlton, NJ 08053  
856.983.1924 x3 (Home) 609.304.7699 (Cell)  
[ken@k2wb.com](mailto:ken@k2wb.com)  
<http://sjra.club>

**Courier-Post**  
301 Cuthbert Boulevard  
Cherry hill, NJ 08002



South Jersey Radio Association (SJRA, established in 1916) will be holding its Emergency Communications event on June 27<sup>th</sup> and 28<sup>th</sup> in Marlton, New Jersey, and various remote sites.

Normally this event is a public demonstration which takes place at the Savich Farm Field, which is across Main Street in Marlton from the Indian Springs Golf Course, Marlton, NJ 08053. However, this year our organization will be following the guidance of global health experts at the World Health Organization and U.S. Centers for Disease Control as well as State and Local Officials on preventing the spread of the COVID-19 virus and therefore we will not be operating publicly to protect our community and club members.

The COVID-19 pandemic offers amateur radio a real test of emergency preparedness and our members are up to the task. The SJRA has taken an innovative approach to this challenge. Club members will be operating remotely out of their houses, but all connected in real time via the internet while communicating with other amateur radio operators throughout the world via radio.

The South Jersey Radio Association is the Oldest Continuously Meeting Amateur Club in North America. Over the years Amateur Radio Operators have stood to provide critical communications in the event of various emergencies. Such as weather events like Tornados, Hurricanes, Snow etc. and other emergencies like 911. This annual event demonstrates preparedness of the amateur radio community for disasters.

The resource of Amateur Radio has been noted many times in the congressional record for things that went right, like in the case of Hurricane Katrina in Louisiana. The Amateur Radio Community is the backup of the backup. Our abilities allow the ability to send messages locally, nationally, and globally.

On Saturday June 27<sup>th</sup> our drill will start at 2:00 PM local time and will continue to operate for 24 hrs. until 2:00 PM on Sunday June 28<sup>th</sup>. Amateur Radio Operators across North America will also participate in this exercise.

This North American event, called "Field Day" is sponsored by the American Radio Relay League (ARRL) [www.arrl.org](http://www.arrl.org) which is the national association for Amateur Radio Operators. Most of the over 3,500 participants will use emergency power, temporary shelters & Antennas, simulating real emergency conditions.

Addition areas can be found on our web site <http://www.sjra.club> and [arrl.org](http://arrl.org).

## **SJRA 2020 ARRL FIELD DAY**

### **7.3.5 SJRA (K2AA) Bonus Points Claim for Origination of a Message to our ARRL Section Manager for Field Day 2020**

This year SJRA originated and sent out a message to our ARRL Section Manager, Tom Preiser. All the messages were sent by Holden, KD2JPV (operating as K2AA) via radio to Ken, K2WB who then sent the message to the Section Manager via winlink.

Message ID: 5CYP719RCKA5  
Date: 2020/06/28 00:27  
From: K2WB  
To: RRI-REGION2  
Cc: RRI-ARCHIVE  
Source: K2WB  
Subject: QTC 1 R MANAHAWKIN NJ 08050

37 R K2AA 24 MARLTON NJ JUN 27  
TOM PREISER N2XW  
177 BOWSPIRIT ROAD  
MANAHAWKIN NJ 08050 USA  
609 618 0224  
TJPREISER ATSIGN GMAIL DOT COM  
BT  
SJRA HAS 7 STATIONS LINKED  
TOGETHER IN A WIDE AREA  
NETWORK OPERATING AS K2AA X  
WE ARE SUCCESSFUL WITH  
COORDINATION  
OF MANY HOME STATIONS  
BT  
KEN K2WB  
AR

SJRA believes it has met the requirements for 100 bonus points for sending a special Field Day message to South Jersey Section Manager, Tom Preiser, N2XW.

## SJRA 2020 ARRL FIELD DAY

### 7.3.6 SJRA (K2AA) Bonus Points Claim for Handling Ten (Other) Messages

K2AA originated and sent ten messages (besides the one to Tom Preiser message above) to various members, visitors, and others. We originated these messages and sent them by winlink. Copies of the completed message traffic forms for these messages follow:

Message ID: 1ENGVOWN9VSX  
Date: 2020/06/28 01:57  
From: K2WB  
To: RRI-REGION2  
Cc: RRI-ARCHIVE  
Source: K2WB  
Subject: QTC 1 R MOUNT LAUREL NJ 08054

48 R K2AA 16 MARLTON NJ JUN 28  
CHRIS CANNATELLO KC2GNQ  
434 KELHAM COURT  
MOUNT LAUREL NJ 08054 USA  
609 678 0405  
CHRIS ATSIGN CANNATELLA DOT COM  
BT  
CONGRATULATIONS FOR BEING A LICENSED  
HAM FOR 10 YEARS X  
HOPEFULLY MANY MORE TO COME  
73  
BT  
KEN K2WB  
AR

Message ID: 03M08X9HH6D9  
Date: 2020/06/28 00:51  
From: K2WB  
To: RRI-REGION2  
Cc: RRI-ARCHIVE  
Source: K2WB  
Subject: QTC 1 R COLLINGSWOOD NJ 08108

36 R K2AA 5 MARLTON NJ JUN 27  
HOLDEN J. CORREIA FISHER KD2JPV  
401 COLLINGS AVE  
COLLINGSWOOD NJ 08108  
609 367 4967  
HOLDEN ATSIGN KD2JPV DOT COM  
BT  
HI HOLDEN X THANK YOU  
FOR ALL OF YOU HELP  
AND SUPPORT WITH FIELD DAY  
AND WITH THE TOWER 73  
BT  
KEN K2WB  
AR

Message ID: X2HRTKB20GMD  
Date: 2020/06/28 00:27  
From: K2WB  
To: RRI-REGION2  
Cc: RRI-ARCHIVE  
Source: K2WB  
Subject: QTC 1 R MILLVILLE NJ 08332

43 R K2AA 14 MARLTON NJ JUN 28  
RAY GOLLEY N3RG  
552 NEWPORT ROAD  
MILLVILLE NJ 08332 USA  
609 828 1330  
RGOLLEY ATSIGN COMCAST DOT NET  
BT  
WE MISSED YOU AT FIELD  
DAY THIS YEAR X WE  
CANT WAIT UNTIL FD2021  
BT  
KEN K2WB  
AR

Message ID: YQ2Q39RYVRDI  
Date: 2020/06/28 00:55  
From: K2WB  
To: RRI-REGION2  
Cc: RRI-ARCHIVE  
Source: K2WB  
Subject: QTC 1 R EWING NJ 08628

45 R K2AA 19 MARLTON NJ JUN 28  
BOB BEYER KE2D  
21 DELAWARE AVE  
EWING NJ 08628 USA  
609 902 2884  
BOB UNDERSCORE BEYER ATSIGN VERIZON DOT  
NET  
BT  
THANKS FOR YOUR HELP IN  
MAKING THE LARGE AREA 7D  
WORK X IT HAS BEEN  
A BLAST SO FAR  
BT  
KEN K2WB  
AR

## SJRA 2020 ARRL FIELD DAY

Message ID: LY463JCFVLQ5  
Date: 2020/06/28 02:11  
From: K2WB  
To: RRI-REGION2  
Cc: RRI-ARCHIVE  
Source: K2WB  
Subject: QTC 1 R SICKERVILLE NJ 08081

50 R K2AA 12 MARLTON NJ JUN 28  
AL WITNER N3AVT  
217 BLUE ANCHOR ROAD  
SICKERVILLE NJ 08081 USA  
856 297 4602  
N3AVT ATSIGN YAHOO DOT COM  
BT  
THANKS FOR ALL OF YOU  
HELP WITH FIELD DAY AND  
EVERYTHING ELSE  
BT  
KEN K2WB  
AR

Message ID: 4WJKU8PAYJP8  
Date: 2020/06/28 00:27  
From: K2WB  
To: RRI-REGION8  
Cc: RRI-ARCHIVE  
Source: K2WB  
Subject: QTC 1 R WILLIAMSFIELD OH 44093 OH 44093

40 R K2AA 18 MARLTON NJ JUN 28  
TED GROKE N8MP  
7115 STANHOPE DASH KELLOGGSVILLE ROAD  
WILLIAMSFIELD OH 44093 OH 44093  
609 410 8791  
TED DOT N8MP ATSIGN GMAIL DOT COM  
BT  
THE W2EA GROUP IS EXCITED  
THAT YOU ARE JOINING US  
THIS YEAR IN SEPTEMBER X  
BE WELL 73  
BT  
KEN K2WB  
AR

Message ID: 7G3UWXG9IX17  
Date: 2020/06/28 01:25  
From: K2WB  
To: RRI-REGION2  
Cc: RRI-ARCHIVE  
Source: K2WB  
Subject: QTC 1 R MULLICA HULL NJ 08062

46 R K2AA 10 MARLTON NJ JUN 28  
BOB FISCHER III W2SJ  
23 MORNING GLORY CIRCLE  
MULLICA HULL NJ 08062 USA  
609 440 2916  
BOBW2SJ ATSIGN GMAIL DOT COM  
BT  
THANK YOU FOR OPERATING K2AA  
FROM YOUR STATION ON VHF  
BT  
KEN K2WB  
AR

Message ID: AA9DDJRCR7SP  
Date: 2020/06/28 01:39  
From: K2WB  
To: RRI-REGION2  
Cc: RRI-ARCHIVE  
Source: K2WB  
Subject: QTC 1 R MOUNT LAUREL NJ 08054

47 R K2AA 24 MARLTON NJ JUN 28  
AL ZIEGLER KD2ST  
3 LANCELOT CT  
MOUNT LAUREL NJ 08054 USA  
609 706 6990  
JAZ90 ATSIGN COMCAST DOT NET  
BT  
THANKS FOR ALL OF YOUR  
HELP WITH THE TOWER BONUS  
POINTS AND OPERATING FIELD DAY  
THIS YEAR X FD 2020  
IS ONE TO REMEMBER  
BT  
KEN K2WB  
AR

Message ID: 9Z0BYJHISWC2  
Date: 2020/06/28 00:51  
From: K2WB  
To: RRI-REGION3  
Cc: RRI-ARCHIVE  
Source: K2WB  
Subject: QTC 1 R LORDS VALLEY PA 18428

44 R K2AA 21 MARLTON NJ JUN 28  
JON MACMILLIAN W2MC  
3744 HEMLOCK FARMS  
LORDS VALLEY PA 18428 USA  
609 670 5023  
JONW2MC ATSIGN GMAIL DOT COM  
BT  
I MISS YOU PRESENCE IN  
SOUTHERN NEW JERSEY X CAN  
YOU TAKE A CLEARER PHOTOGRAPH  
OF YOU AND THE TSHIRT  
QUERY  
BT  
KEN K2WB  
AR

Message ID: 9A40CS53E9BR  
Date: 2020/06/28 00:27  
From: K2WB  
To: RRI-REGION12  
Cc: RRI-ARCHIVE  
Source: K2WB  
Subject: QTC 1 R MESA AZ 85210

42 R K2AA 14 MARLTON NJ JUN 28  
JEFF HARRIS K2DFE  
602 W X PANTERA AVE  
MESA AZ 85210 USA  
602 617 6930  
K2DFE ATSIGN YAHOO DOT COM  
BT  
I HOPE YOU GOT YOUR  
TSHIRT IN TIME X HAVE  
A GREAT FIELD DAY  
BT  
KEN K2WB  
AR

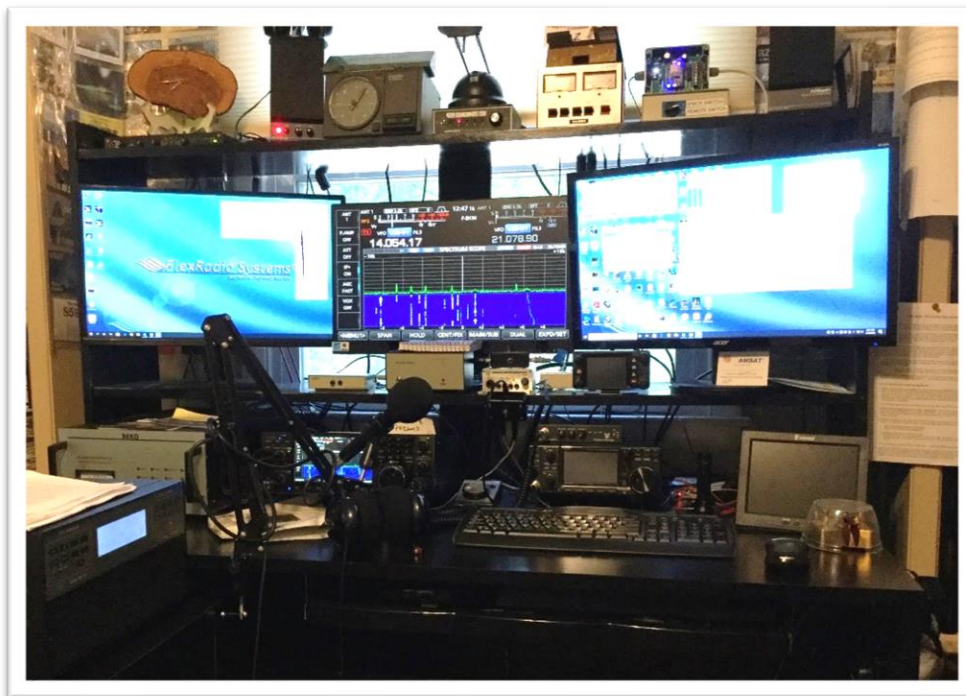
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Based on these documents and the messages received, K2AA believes it has earned 100 points for 10 messages.

### 7.3.7 SJRA (K2AA) Bonus Points Effort for Satellite QSOs for Field Day 2020

This year K2AA completed satellite contacts on 6/27/2020, which is summarized below:

Time	Call	Mode	Exchange	Section	Satellite	Uplink	Down Link
21:43	KE4AZZ	SSB	1D	WCF	XW-2B	435.093	145.742
21:48	AB1QB	SSB	3E	NH	XW-2B	435.111	145.734



**Rick's (W2JAZ) station used to make satellite contact.**

Based on the two satellite contacts, K2AA claims 100 bonus points.

### 7.3.8 SJRA (K2AA) Bonus Points for Alternate Power QSOs for Field Day 2020

This section certifies that the South Jersey Radio Association (K2AA) Field Day effort for 2020 included at least five alternate power QSOs.

The information for five QSOs follows:



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<b>Time (UTC)</b>	<b>Call</b>	<b>Exchange</b>	<b>Section</b>	<b>Band</b>
1801	N4KIT	1E	VA	40m
1807	AF4YF	1E	VA	40m
1816	N4USS	1C	VA	40m
1820	K4RCA	1E	VA	40m
1824	KM8G	1E	WV	40m

All were done via solar power by Holden, KD2KPV at our 40m SSB station using two 150-watt panels wired in parallel with a 26 Ah SLA battery. All contacts were made on Saturday afternoon June 27<sup>th</sup>.

In accordance with the 2020 Field Day rules for bonus points (section 7.3.8), SJRA claims 100 bonus points for completing the five solar power QSOs.



Solar Panels used for the Alternate Power QSO's

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### 7.3.9 SJRA Bonus Points Claim for Copying W1AW Bulletin for Field Day 2020 ARRL Field Day Bulletin

Calling all Radio Amateurs. Calling all Radio Amateurs.  
This is W1AW in Newington, CT.  
An official bulletin transmission follows using PSK31 in BPSK mode,  
followed immediately by 45.45 Baud Baudot.  
This is W1AW  
ARLX010 and ARLP026 follow  
ARLX010 and ARLP026 follow  
ZCZC AX10  
QST de W1AW  
Special Bulletin 10 ARLX010  
From ARRL Headquarters  
Newington CT June 26, 2020  
To all radio amateurs  
SB SPCL ARL ARLX010  
ARLX10 2020 W1AW Field Day Bulletin  
ARRL Field Day is amateur radio's largest on-air activity. In 2019,  
over 36,000 amateurs, from ages 5 to 98, participated in this 24 hour  
event. Field Day 2020 will be unlike those in recent decades. Today's  
amateur operators are challenged with adapting to our new normal  
social environment, while determining how to carry out communications  
to assist served agencies and the public. This year has in part been  
an ongoing emergency preparedness exercise.  
While this year may not be the social gathering or public  
demonstration opportunity of past years, this year is an opportunity  
to determine how to participate from home, or how to operate remotely  
while still interacting with your group or club. This year has also  
seen a significant increase in the use of social media discussing how  
we are adjusting our communications resources and tools to remain  
effective and able to serve others. Be sure to promote your Field Day  
and use #ARRLFD.  
This year will be the year for you to expand your horizons and try  
something different. Experiment, adapt, and be creative. By doing  
so, we can push the boundaries of amateur radio to new heights. Be  
sure to check December QST for the 2020 Field Day results article.  
Good luck and 73.  
NNNN

In accordance with the 2020 Field Day rules for bonus points (section 7.3.9), SJRA claims 100 bonus points for copying and providing the W1AW Special Field Day Bulletin.

### 7.3.10 Educational Activities

This year Bob, KE2D produced an informative PowerPoint presentation on “*A Brief Introduction to Vector Network Analyzers (VNAs)*” and presented it to the club on Saturday, June 27<sup>th</sup> via a zoom meeting.



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Screen shot of Educational Presentation on  
VNA's via zoom virtual meeting.

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### **7.3.11 SJRA Bonus Points Claim for Site Visitation by an Elected Government Official for Field Day 2020**

This year we invited several elected government officials and Chris Cannatella, KC2GNQ who serves in his home township of Mt. Laurel as an elected republican committee member stopped by the 40m station. The official had been contacted in advance and was invited to SJRA Field Day.

Thus, we claim 100 bonus points for an elected official for 2020.



**Chris Cannatella, KC2GNQ with Ken, K2WB. Covid-19 protocols including wearing face masks, social distancing and hand washing were followed. Note the solar panels in the background used for the five-alternate power QSO's.**

### **7.3.12 SJRA (K2AA) Bonus Points Claim for Site Visitation by an Invited Representative of an ARES-Served Agency for Field Day 2020**

SJRA Field Day chairman Ken Botterbrodt invited a list of local members of ARES-served organizations. One of the people we always invite is Mr. Chris Cannatella, who is now part of Burlington County Emergency Management. Mr. Cannatella visited the 40-meter phone station on Saturday June 27<sup>th</sup>. K2AA claims 100 bonus points for attendance by invited Burlington County Emergency Management official Chris Cannatella, KC2GNQ.

## SJRA 2020 ARRL FIELD DAY

### 7.3.14 K2AA Claims 50 Points for Web Submittal

K2AA earned 50 bonus points for on-line submittal of the application.

### 7.3.15 K2AA Claims 40 Bonus Points for Contacts by Two Youth Operators.

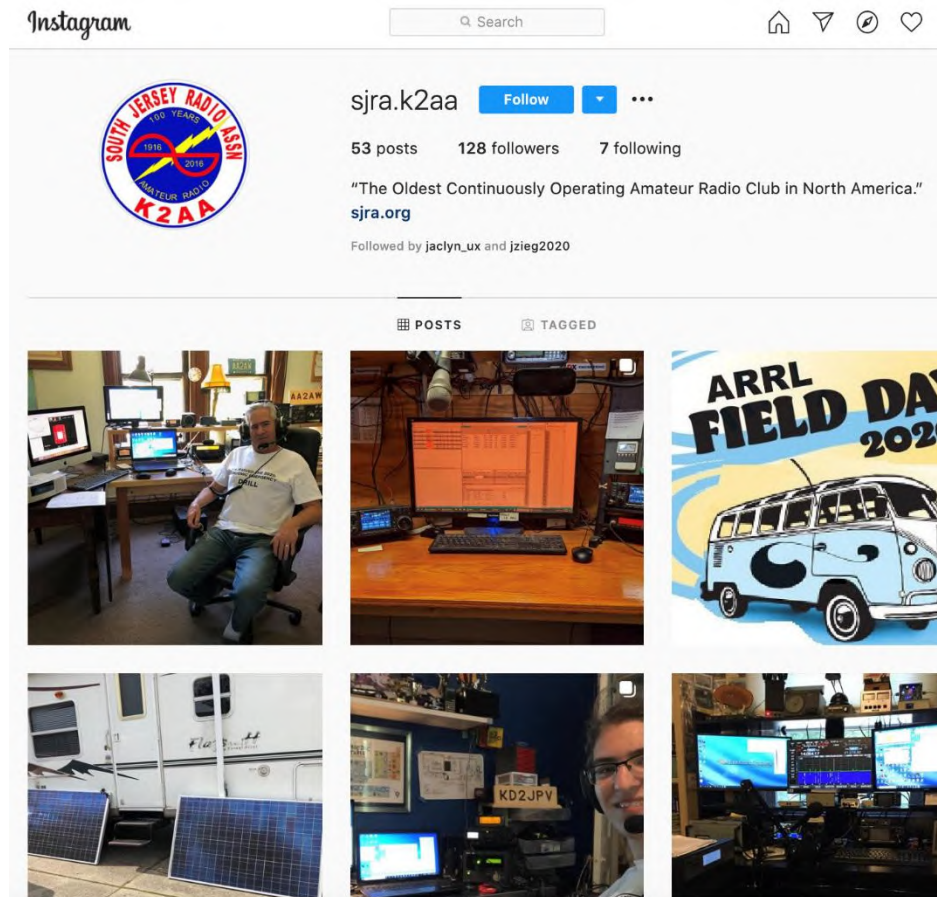
We had two youths (persons age 18 or younger) make contacts this year at Field Day. The two contact details are:

Name	Age	Day/Time	Freq.	Call Sign	Exchange
Elle L.	5	2020-06-27 21:49	7.236	W8FY	4F OH
Logan M.	8	2020-06-28 16:11	7.227	K1B	4E NH

We claim 40 points for the two youth operators.

### 7.3.16 K2AA Claims 100 Points for Social Media Publicity

K2AA claims 100 bonus points for publicizing its local Field Day through social media. Several club members posted on Instagram and Facebook.



## SJRA 2020 ARRL FIELD DAY



### 7.3.17 SJRA Operation with Safety Officer (100 Points)

During Field Day 2020, Frank, AA2AW served as the safety officer with help from Bob, KE2D, and Ken, K2WB. We have been for many years very conscious of safety considerations, especially club president Ken, K2WB. Bob, KE2D is a long-time ham with lots of Field Day experience.

This year additional safety precautions due to COVID-19 were emphasized including the wearing of face masks in public, social distancing, and frequent handwashing.

Thus, SJRA claims 100 points for having a safety officer and safety procedures in place.



## SJRA 2020 ARRL FIELD DAY

### 2020 ARRL Field Day Safety Officer Check list

This form is NOT intended to be all inclusive.

The Safety Officer/s certify by submitting this form that due diligence was made to provide a safe operation.

Safety Officer/s or qualified designated assistant/s was on site for the duration of the event.  
(you will be the acting safety officer at your location)

(Check any or all that apply)

Yes	No	N/A	
<input checked="" type="checkbox"/>			Fuel is properly stored.
<input checked="" type="checkbox"/>			Fire extinguisher is on hand and properly located.
<input checked="" type="checkbox"/>			First Aid kit on hand.
<input checked="" type="checkbox"/>			Access to NWS alerts to monitor for inclement weather.
<input checked="" type="checkbox"/>			Tent stakes are properly installed and marked if used.
<input checked="" type="checkbox"/>			Temporary antenna structures properly secured and marked if used.
<input checked="" type="checkbox"/>			Site secured of from tipping hazards.
<input checked="" type="checkbox"/>			Site is set up in a neat and orderly manner to reduce hazards.
<input checked="" type="checkbox"/>			Stations and equipment are properly grounded.
<input checked="" type="checkbox"/>			Access to a means to contact police/fire/rescue if needed.
<input checked="" type="checkbox"/>			Batteries used for power must be properly vented and clear of debris.
<input checked="" type="checkbox"/>			Face mask and social distancing when more then one operator is in the same area.
<input checked="" type="checkbox"/>			Hand sanitizer and disinfectant is available when multiple operators are going to use the same equipment.

Submitted by: FRANK LONGBOTTOM

Call Sign: AA2AW

Signature: Frank Longbottom

Date: 7-2-2020

## SJRA 2020 ARRL FIELD DAY

To summarize, the SJRA (K2AA) Field Day effort earned **1,190 bonus points**, the justifications for which are provided in this document.

If you have any questions or need any additional information please contact Ken, K2WB (**ken at k2wb dot com**) or Al Ziegler, KD2ST (**al.kd2st at gmail dot com**).

Thank you & 73,

A handwritten signature in black ink, appearing to read "albert ziegler".

Albert Ziegler, KD2ST  
Member, South Jersey Radio Association (K2AA)