



PROPAGATOR

The Monthly Newsletter of the South Orange Amateur Radio Association

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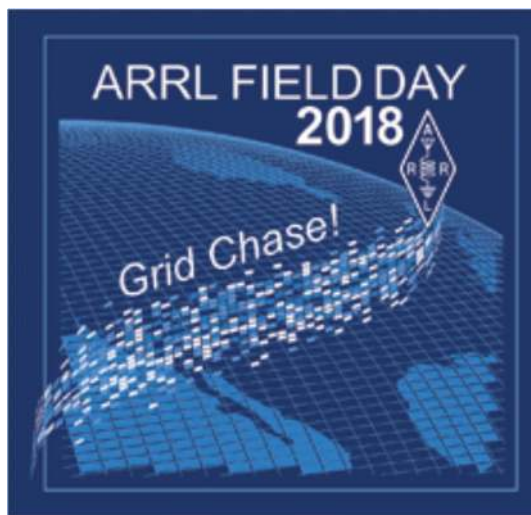
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General Meeting

June 18, 2018
7:00 PM

(Field Day Prep)

NP Murray Center
Veterans Way
Mission Viejo



CQ Field Day, CQ Field Day CQ Field Day, Kilo Six Sierra Oscar Alpha.

ARRL Field Day is rapidly approaching! In fact, it's this coming week-end, officially Saturday June 23, and Sunday June 24, 2018. SOARA has a great presence at this, the most popular, and arguably most important ARRL and Ham Radio annual event. Participants all over North America, and even other parts of the world will be taking to the ham bands in an effort to make as many contacts as possible in 24 hours.

If you've never experienced the fun and excitement of ARRL Field Day, prepare to be amazed.

Even though, officially, Field Day is a North American event, with the ARRL, and the Canadian Radio Relay League (CRRL) the sponsors, operators from all over the world have learned that this event presents a great opportunity to make contacts with North American stations, to log contacts for awards such as All States, ALL Provinces, Counties, etc. And, contacts with

operators in other countries count in our club scores as well.

On the topic of scores, yes, we do keep score. While the original and continuing purpose of Field Day is to improve the abilities of hams to operate under adverse emergency or disaster conditions, such as outdoors, or in temporary facilities, shelters, Emergency Operations Centers, etc., often without commercial power, in order to get the maximum participation, the ARRL has wisely made it a contest as well. The contest is classed so that FD sites are competing with other locations that are equivalent. SOARA operates in Class 3A, which means we are in a temporary location, without commercial electric power, and have 3 main HF transmitters in operation. Our logs are submitted to the ARRL who compiles them all, and publishes the scores in QST magazine in a few months. The prize for being number one in your class? Bragging rights.

SOARA's 3A class means we have to set up an extensive facility with temporary shelters, antennas, including beams on towers, verticals, and long dipoles for the lower 40 and 80 Meter bands. We also provide meals for the FD operators and workers, as we operate continuously for 24 hours. We, in effect, set up a small, nearly self contained, city at the Field Day site.

SOARA Field Day will be held at Gilleran Park, 24960 Filipe Rd., Mission Viejo, upper area, with preliminary set up on Friday afternoon, June 22nd, and early Saturday morning, the 23rd, and operating into late Sunday morning, June 24. We need a lot of hands to accomplish all of this preparation, so I urge you to set aside some time

(Continued on page 5)



New Publications Director Needed

I am looking for someone to complete my term of office to next May, starting in July, if possible.

Too much has changed in my life and it's been more than 7 years now that I have been Publications Director, so new blood is needed in this position for the best interests of the club.

Publications is a great way to keep up on the happenings of the club. I use Microsoft Publisher, but I'm sure many others would do. Expect to donate about 8 hours a month of your time.

Thank you for the opportunity to be of service to SOARA.

73,

Mike
K6MSM

Publications
Director
South Orange
Amateur Radio
Association

Field Day—Tentative Schedule

WHEN: Fourth Full Weekend in June (June 22-24, 2018)
 TIME: 11:00am Saturday - 11:00am Sunday (Friday setup starts at 3om)
 WHERE: Gilleran Park, 24960 Felipe Road, Mission Viejo

TALK IN: 147.645- 110.9Hz

TENTATIVE 2018 SCHEDULE:

Fri 6/22 3pm: Setup begins (towers, antennas, tents, radios, etc)
 Fri 6/22 6pm: Dinner
 Sat 6/23 8am: Breakfast
 Sat 6/23 9am: Field day site opens
 Sat 6/23 11am: Field day operations begins
 Sat 6/23 12pm: Lunch
 Sat 6/23 1pm: Education Activity
 Sat 6/23 2pm: ARRL-VEC Testing Session
 Sat 6/23 6pm: Dinner
 Sun 6/24 8am: Continental Breakfast
 Sun 6/24 11am: Field day operations cease
 Sun 6/24 12:30pm: Lunch
 Sun 6/24 2:00pm: Breakdown completes

Field Day 2018 is fast approaching and we need you! There are many opportunities available to help with this event. There is a survey posted online [HERE](#) where you can sign up for specific activities.

This year we will be joined by members from the Laguna Woods Ham Radio club as well as students from a Jr. High School in Santa Ana who are spending their summer studying Rocks, Radio and Space. Let's show our community how awesome ham radio is and allow them to go home with an experience they will not soon forget.

Please take a moment to look at the available volunteer opportunities and [SIGN UP!](#)

73, Dana, KM6LZG
 SOARA Activities Coordinator

Why Field Day?

Despite the Internet, cell phones, email and modern communications, every year whole regions find themselves in the dark. Earthquakes, fires, storms, tornadoes, ice and even the occasional cutting of fiber optic cables leave people without the means to communicate. In these cases, the one consistent service that has never failed has been Amateur Radio. These radio operators, often called "hams" provide backup communications for everything from the American Red Cross to FEMA and even for the International Space Station. SOARA "hams" will join with thousands of other Amateur Radio operators showing their emergency capabilities on Field Day weekend...

WHEN ALL ELSE FAILS...

AMATEUR RADIO

WWW.ARRL.ORG



COMING SOON

SOARA Field Day Prep
June 18

ARRL Field Day
Jun 22-24

HRO HamJam
July 7

SOARA Picnic
Aug 6

SOARA Fair
Aug 20

Ham License Exams

At Field Day this month!

Please see our [website](#) for more info.

Walk-ins ok.

Extra | General | Technician

SOARA Elmer Saturday Report

5/26/18

May's SOARA Saturday had lots of interest. I uploaded the Arduino source code to the SOARA Saturday webpage in the May section. This code supports both the BME280 and BME680 sensors depending how you compile the code. Just comment or uncomment the #define for the BME280 or BME680. Don't uncomment both...

```

//#define BME280
#define BME680
Or
#define BME280
//#define BME680
    
```

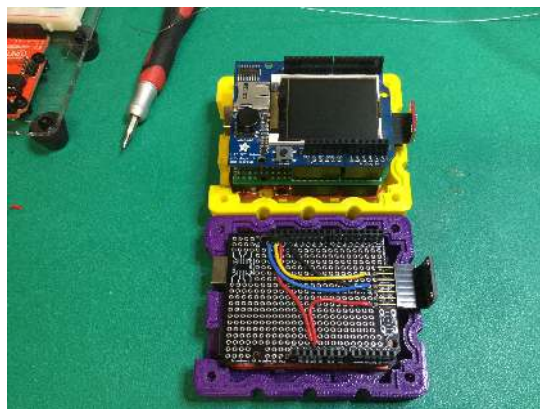
I also included a #define DEBUG
All the serial.print("debug message"); are controlled with this define.

I know I didn't add enough comments. If you have questions, ask.

The next step from breadboarding is a hand wired protoboard. I didn't cover this in the meeting. The www.adafruit.com site has instructions. Here is a photo for what I did:

Notice AREF is connected to 3.3V. Red is 3.3V, Black ground. Blue is clock or SCK, Yellow is SDI.

If you don't go the Adafruit route. Depending on the sensor you use, you may need level translators. This wiring is a little more complicated. The BME sensors only operates at 3.3V. So you need to shift the 3.3V to 5V for it to operate properly. The below sensor is a BME280 off EBAY from



China. Beware, don't get the BMP280. P vs E.

In this case only two pins needed shifting. SCK & SDI.

Have fun and I hope you enjoy your Arduino display



with temperature, humidity, pressure, altitude and optionally VOC gas if you went with the BME680. Assuming there is enough code space, next steps might be data logging to the SD card.

Ed, WA6ED





Membership

We now have 223 active members. If you need an official SOARA badge replacement, call sign change, or have a question, email membership@soara.org. I recommend attending SOARA activities. Get on the radio, join the nets, and volunteer for those races. Every time I participated in something, I was glad I did. Also, I want to thank Jim W16X, Heiko AD6OI, & Eric W6INE for helping with printing and getting handouts for the membership table. I know I forgot at least one person that helped. Please remind me and I will take better notes next time. Well... Maybe...

One new member:

**Jeanene,
KM6RXK**
Welcome to
SOARA!

At Field day only, the SOARA Board approved to waive half of the initiation fee. Instead of \$40 it will be \$20 during official field day hours only. Plus \$50 for the first year dues. So, if you know someone that wants to be a become a SOARA member, Field Day it the time to save a few dollars!

73, Ed, WA6ED
[member-
ship@soara.org](mailto:membership@soara.org)

Remote Operation—ICom Style

If you are interested in Remotely operating an ICOM radio, like IC-7300 or 7610, 7700, etc, or have general Q&A's about these SDR radios, please take a look at "ICOM RS-BA1" - we can use your input if you are running any remotely operated radios, FLEX as well. Or have general interest in learning more.

<https://www.facebook.com/groups/RadioElmer>

Jeff, W6FCC

HRO HamJam—July 7th

Saturday, July 7, is the date, store hours are 10AM-5:30PM, and once again we will be hosting our local clubs and communications specialists in the store parking lot for another educational and fun event.

Come see local communications vehicles, learn about Hospital Disaster Services, and see how many of the local clubs make various activities available to local hams. We look forward to hearing from any local group who would like to reserve space for this event.

Come join us for a fun-filled Saturday of ham radio; make it your goal to leave having learned at least one new thing and/or shared your own knowledge with at least one new ham.

Kind 73,

Janet Margelli, KL7MF
Manager, Ham Radio Outlet
933 N. Euclid St., Anaheim, CA 92801
(714) 533-7373 Tel
anaheim@hamradio.com

SOARA Elmer Saturday at Field Day

Go to <https://www.soara.org/activities/soara-saturdays/> for more SOARA Elmer Saturday details, like topics, information, links, time, date, location, photos...

The June 23rd SOARA Elmer Saturday will be at Field Day! I plan to demo an idea for a modular battery box incorporating past ideas from Ray AE6H and Tony W6TNY. 11am-??pm, Gillean Park, will be focused on a battery box module. The idea is to make a connector module that can move from battery to battery as the batteries drain. Also, the module can stay inside the battery box and protected from the elements.

These builds tend to be very busy and I need all the Elmer help I can get. Please help with wiring and assembly, it would be appreciated! I can also make you a green Elmer badge. Just email me at membership@soara.org.

73,
Ed, WA6ED

(Continued from page 1) - *From the President—Field Day 2018*

and come out to assist., especially early Saturday, and of course break down on Sunday, immediately after operations cease at 11:00 am.

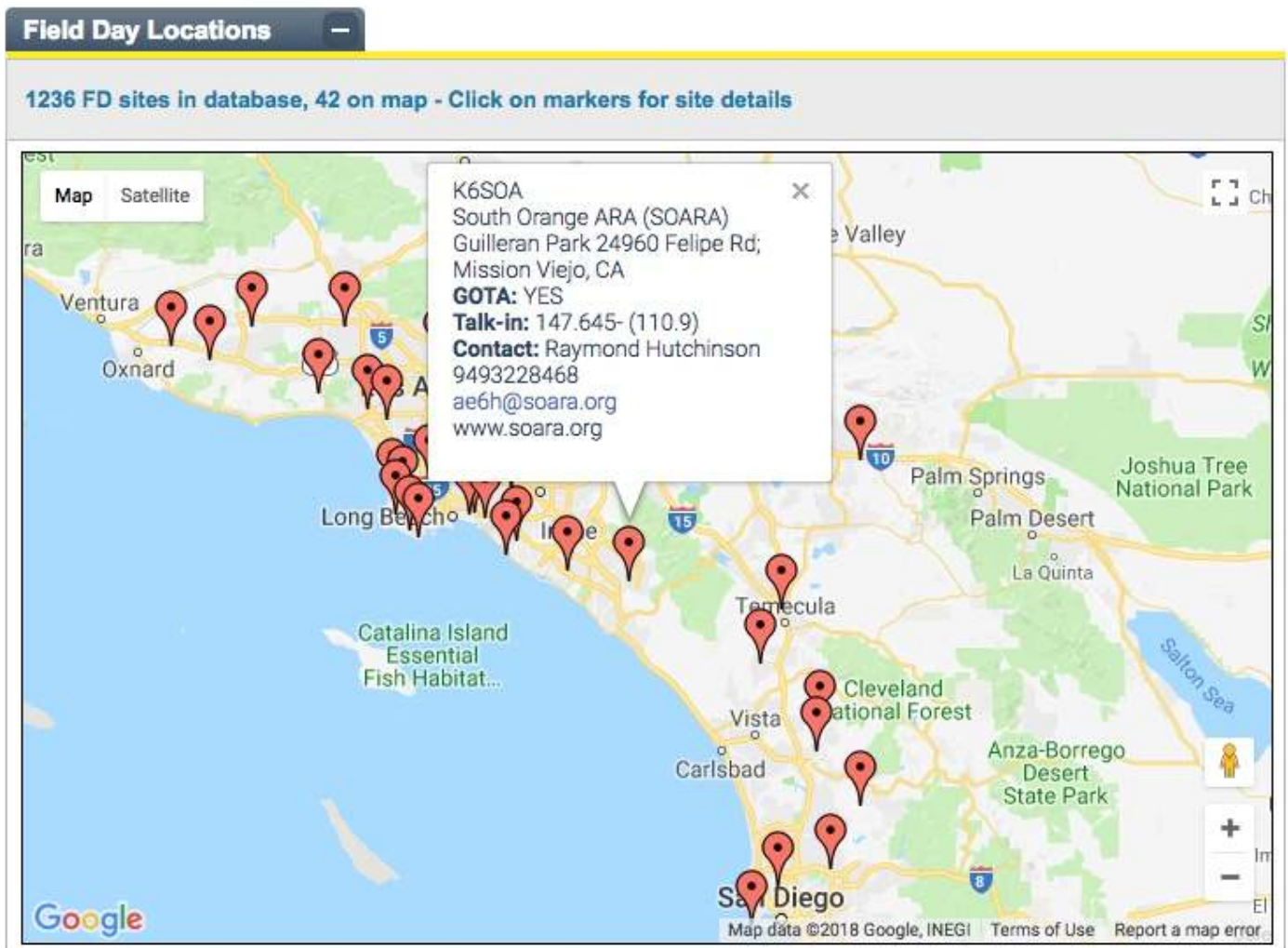
You don't need HF privileges to operate, and in fact, on our "GOTA" HF station, you don't need to be licensed at all to enjoy the fun. We will have control operators and coaches handy to assist you. I believe the reward will be yours, watching and of course participating, is a fantastic and amazing experience. Hope to see you there. You won't be sorry!

SOARA's Field Day site in relation to other sites is on the map below. Please refer to our website for the address and more info.

<https://www.soara.org/activities/field-day/>

73,

Ray
AE6H
SOARA President



4th of July Fireworks

Please look at this as an opportunity to sharpen your communication skills. Charley runs a good show plus you have the best seats on the house. Look him up at the June SOARA meeting. Heiko, AD6OI

NEED VOLUNTEERS TO FILL OPEN SLOTS FOR THE 4TH OF JULY STREET FAIR & FIRE WORKS EVENT. Attached find details for the event and a waiver form that is required for the event.

Please email Charley, wa6ruz@soara.org, indicating any time slot you can fill. Return completed waiver form ASAP. After I receive the waiver form I'll issue a parking pass for entry to the event.

9:00am to 12:30pm (3.5hrs.)

	<u>NAME</u>	<u>CALL-SIGN</u>	<u>CELLPHONE</u>	<u>EMAIL ADDR.</u>
1.	Charley Speelman	WA6RUZ		
2.	Jay Center	AD6AT		
3.	Knute Josifek	K6HIV		
4.	Steve Tobey	KM6HCC		
5.	Erik Wresch	W6INE		
6.	Bob McCord (NCS)	K6IWA		

12:00pm to 3:30pm (3.5hrs.)

	<u>NAME</u>	<u>CALL-SIGN</u>	<u>CELLPHONE</u>	<u>EMAIL ADDR.</u>
1.	Charley Speelman	WA6RUZ		
2.	Jay Center	AD6AT		
3.	Knute Josifek	K6HIV		
4.	Phil Lonzello	WA6LDI		
5.	Steve Tobey	KM6HCC		
6.	Dale Griffith	W8RRV		
7.	Cheryl Baker	K6CHR		

3:00pm to 6:30pm (3.5hrs.)

	<u>NAME</u>	<u>CALL-SIGN</u>	<u>CELLPHONE</u>	<u>EMAIL ADDR.</u>
1.	Charley Speelman	WA6RUZ		
2.	Dale Griffith	W8RRV		
3.	Steve Tobey	KM6HCC		
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____

6:00pm to aprox.. 9:30pm (aprox. 3.5hrs)

	<u>NAME</u>	<u>CALL-SIGN</u>	<u>CELLPHONE</u>	<u>EMAIL ADDR.</u>
1.	Charley Speelman	WA6RUZ		
2.	Dale Griffith	W8RRV		
3.	Steve Tobey	KM6HCC		
4.	Mike Slygh	NM6X		
5.	Dale Tyler	W6EDT		
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____

I will be available at the June 18th SOARA meeting and at the SOARA Field Day, if you have questions or to submit your waiver form. Thanks. **Charley Speelman, WA6RUZ**, RACES Radio Officer & ARES Emergency Coordinator, 949.770-2658 home. 949.463-3658 – cell. wa6ruz@gmail.com
<http://www.mvraces.org>, mvraces@mvraces.org, 949. 257-2237 – RACES Message Line

7 2018 SOARA Calendar THE PROPAGATOR

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
General Meeting 7:00 PM	22	26	19	16	21	18	16	20	17	15	19	-
Program	Science Heads	Power werx	OC Fire Watch	NCG	Spring Auction	Field Day Prep	TBD	SOARA Fair	TBD	TBD	Fall Auction	-
FCC Ham Exam	22	26	19	16	21	At Field Day (2pm)	16	20	17	15	19	-
Educational Classes	Tech 20	Gen 24	-	Tech 14	Extra 19	Tech 16	Gen 14	Tech 18	Tech 15	-	-	-
SOARA Saturdays (9am)	27 Murray	Mar 3 Gilleran	24 Gilleran	21 Murray	26 Murray	23 Gilleran	21 Murray	25 Murray	22 Gilleran	20 Murray	24 Murray	-
SOARA T-Hunt	7	11	4	1	6	3	1	5	2	7	4	2
Board Meeting	29	Mar 5	26	23	29	At FD	23	27	24	22	26	-
Special Events	Quartzfest	Yuma Hamfest		Visalia Intl DX	Ohio Hamven- tion	ARRL Field Day 22-24	HRO Ham Jam 7	SOARA Picnic 6		JOTA		SOARA Holiday Party 3
Major HF Contests		ARRL DX-CW CQWPX RTTY	ARRL DX-SSB CQWPX SSB		CQWPX CW	ARRL Field Day 22-24			CQWW RTTY	CQWW SSB	CQWW CW	
Volunteer Events	OC Chili Run	Paws Fur Pink OC Chili Run	OC Chili Run Baker to Vegas	Desert Storm Rally Vision Quest	HD Trails OC Mara- thon Memorial Day 1/2 Mara- thon	ARRL Field Day 22-24	MV Fire- works 4			OC Cycle for Life OC Prep Expo		Run for a Claus

*Dates subject to change.
Check the [SOARA website](#) to verify
locations and times.

SOARA meets at the [Norman P. Murray Center](#), 24932 Veterans Way, Mission Viejo, CA on the third Monday of every month at 7:00 PM. For the months of January and February the third Monday is a holiday and the meeting is held on the fourth Monday.



License Exams: Amateur License Exams are given prior to SOARA meetings, except June. **Exams are at 6pm.** Prior registration is not required and walk-in applicants are welcome. For June, exams are held at Field Day. For further information, email Sean Reigle, AJ6B, at aj6b@soara.org.

SOARA Library: SOARA has many amateur radio related books such as hand books, books about electrical theory, etc. available to lend out to club members. Contact Heiko Peschel ad6oi@soara.org for more info.

Web Site: SOARA maintains a web site with current club information. The URL is: <http://www.soara.org/>

Repeaters: The Laguna Beach, San Clemente, and Trabuco repeaters are open. The Santiago Peak repeaters are closed. For details or questions on the repeaters contact the repeater director, or repeater@soara.org.

2m	—	147.645	-	(110.9)	Laguna Beach
2m	—	146.025	+	(110.9)	San Clemente
2m	—	145.240	-	(110.9)	Trabuco
D-STAR	2m	—	146.115	+	(K6SOA C) Laguna Beach
	220	—	224.100	-	(110.9) Laguna Beach
	220	—	224.640	-	(pvt) Santiago Peak. (C)
	440	—	445.660	-	(110.9) Laguna Beach
D-STAR	440	—	445.705	-	(K6SOA B) Laguna Beach
	440	—	447.180	-	(pvt) Santiago Peak. (C)
D-STAR	1.2G	1282.600	-	(K6SOA A) Laguna Beach	

Nets:

UHF/VHF (447.180, 147.645 & 224.640): Tuesdays @ 8:00PM

D-STAR (146.115 C module):
Wednesdays @ 7:30PM

40 meter HF (7.200 MHz +/- for QRM), Sundays @ 8:00AM

10 meter HF (28.410 +/-)
Sundays after the 40m net.

Gordo HF (7.250 MHz +/- for QRM), Weekdays @ 8:30AM



SOARA OFFICERS

President: Ray Hutchinson, AE6H 949-322-8468
ae6h@soara.org

V.P.: Erik Wresch, W6INE
w6ine@soara.org

Secretary: Greg De Hoogh, N6PM
n6pm@soara.org

Treasurer: Lori Carey, NI6X 949-444-8190
ni6x@soara.org

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k6msm@soara.org

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k6uvr@soara.org

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ae6sh@soara.org

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ad6oi@soara.org

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Past President: Tom Hobbs, AE6SH 949-830-8131
ae6sh@soara.org

Activities Coordinator: Dana Wresch, KM6LZG
km6lzg@soara.org

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w6ed@soara.org

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wb6wxo@soara.org

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ng6k@soara.org