

ZK3A DX EXPEDITION TO TOKELAU ISLANDS CONTOBER 1-10, 2019

ALEX NERSESIAN | ZK3A TEAM MEMBER K6VHF/5W0NA/4L1FP/4L0WFF

Website: https://tokelau2019.com/



IDXC, VISALIA, CA, APRIL 24-26, 2020



ZK3A TEAM LEADERS





TEAM CO-LEADER ALEXEY UT5UY

TEAM CO-LEADER Roman Uromc



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ZK3A INTERNATIONAL TEAM

from 9 different countries around the world



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ZK3A TEAM MEMBERS FROM USA

- Alex K6VHF (AZ)
- Adrian KO8SCA (NY)
- Dave WD5COV (NM)
- Rob N7QT (WA)





ZK3A TEAM MEMBERS FROM UKRAINE

- Nick UT8IO (Mariupol)
- Alexey UT5UY (Kiev)
- Sergii UR9QQ (Zaporizhzhia)
- Roman UROMC (Rubezhnoe)
- Aleks USOKW (Ryvne)



WHO IS ALEX K6VHF (VERY HIGH FREQUENCY)

- Was born in USSR during cold war. Developed his interest for radio electronics at age of 12 and at age of 14 built his first amateur radio bands receiver.
- Received his first amateur radio callsign 4L1FP in 2000.
- Extra Class license.
- <u>Proud member</u> of ARRL, CERT, ARES, IDXA, FEMA and others.
- ARRL Instructor and Volunteer Examiner (VE).

- DX expeditions, contesting, RF & antenna design, VHF/UHF communications, EME/MS/Tropo/Es and more.
- First person and pioneer in 4L (Georgia) who made EME/MS and long range VHF/UHF communications on 144/432MHz.







GLOBAL DXCC MOST WANTED LIST

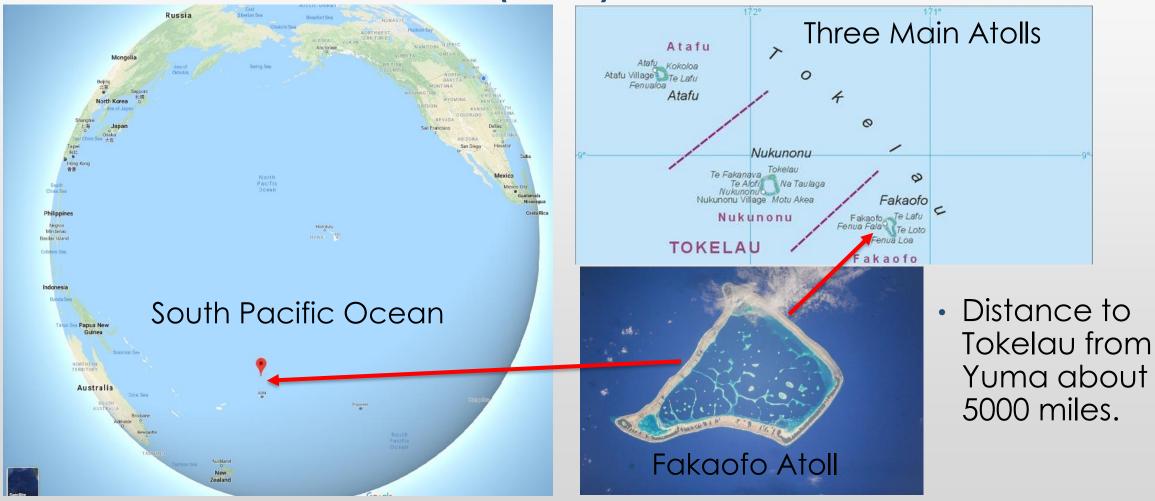
47.	KP1	NAVASSA ISLAND				
48.	XZ	MYANMAR				
49.	70	YEMEN				
50.	ZD9	TRISTAN DA CUNHA & GOUGH ISLAND				
51.	FT5Z	AMSTERDAM & ST PAUL ISLANDS				
52.	VU4	ANDAMAN & NICOBAR ISLANDS				
53.	ZK3	TOKELAU ISLANDS				
54.	1S	SPRATLY ISLANDS				
55.	VU7	LAKSHADWEEP ISLANDS				
56.	CY0	SABLE ISLAND				

EUROPE DXCC MOST WANTED LIST

31.	KH8/S	SWAINS ISLAND				
32.	ZL8	KERMADEC ISLAND				
33.	FO/C	CLIPPERTON ISLAND				
34.	VP8S	SOUTH SANDWICH ISLANDS				
35.	4U1UN	UNITED NATIONS HQ				
36.	ZK3	TOKELAU ISLANDS				
37.	3D2/C	CONWAY REEF				
38.	FO/M	MARQUESAS ISLANDS				
39.	VK9M	MELLISH REEF				
40.	VKOH	HEARD ISLAND				



WHERE IS TOKELAU(ZK3)?





TOKELAU

- Dependent territory of New Zeeland
- 3 coral atolls (Atafu, Nukunonu and Fakaofo) and many islands
- 300 miles north of Samoa
- Population: 1500 people
- Time: UTC+13:00
- Smallest economy in the world
- The major ethnic group is Polynesian
- Tokelau dependent on subsidies from New Zealand (US \$2.5 million/year)
- The major religion is the Congregational Christian Church and Roman Catholic
- Main language is Tokelauan, but English is also spoken
- There is no airport in Tokelau

Flag of Tokelau





ZK3A ADVANCE TEAM ARRIVAL

 Advance team of 3 people Adrian KO8SCA, Rob N7QT and Dusko ZL3WW arrived in Apia, Samoa(5W) on September 23, 2019.



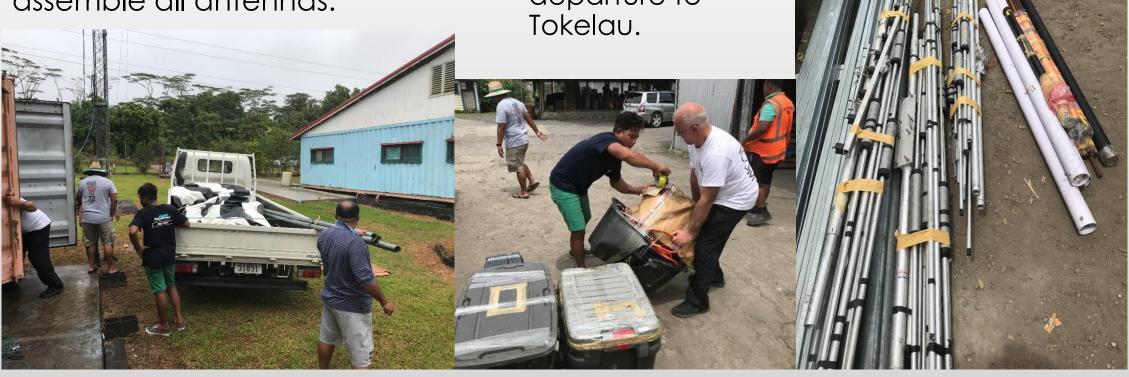




ZK3A ADVANCE TEAM DEPARTURE

Advance team travels to Tokelau
 The prior main team arrives to Apia,
 Samoa to prepare two camps and car assemble all antennas.

 There were lot of logistics to take
 care before
 departure to
 Tokelau





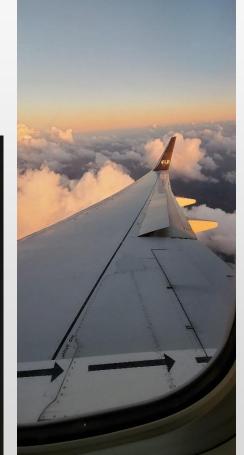
K6VHF ARRIVAL TO APIA

K6VHF flight was: Phoenix -> Los Angeles -> Honolulu -> Apia



- Arrived on September 28th
- Flight delays are REAL !!!

HNL	YYY	YM	D	epa	rt	ures
	-	-				
Airline	Flight	Time	То	ETD	Gate	Remarks
American 🔪	AA 298	9:30PM	Los Angeles	9:30PM	E6	Departed
UNITED	UA 534	9:30PM	Los Angeles	9:30PM	G5	Departed
HAWAIIAN (HA 4	9:40PM	Los Angeles	9:40PM	C3	Final Call
Alaska	AS 824	10:10PM	Seattle-Tacoma	10:10PM	E2	
American	AA 144	10:17PM	Los Angeles	10:17PM	E9	
v vienes egyment 🌵	WS 1865	10:25PM	Vancouver	10:25PM	D2	
HAWAYAN (7)	HA 8	10:45PM	Las Vegas	11:45PM	C1	New Time
American 🍾	AA 675	10:59PM	Phoenix	10:59PM	E10	
UNITED .	UA 1575	11:10PM	San Francisco	11:10PM	F1	
	FJ 852	1:25AM	Apia	1:57AM	D2	Delayed
UNITED R.	UA 1231	7:00AM	Los Angeles	7:00AM	C1	
😔 Lufthansa	LH 9177	7:00AM	San Francisco	7:00AM	F2	
UNITED	UA 154	7:25AM	Majuro		F1	
a American	AA 1480	7:30AM	Los Angeles	7:30AM	E9	
A DELTA	DL 1150	7:30AM	Los Angeles	7:30AM	E3	
HAWAIIAN G	HA 10	8:00AM	Los Angeles		C1	
Jetstar	JQ 2	8:00AM	Melbourne		C7	
HAWAIIAN (HA 6	8:05AM	Las Vegas		D2	
outhwest	WN 1503	8:15AM	Kona	8:15AM	G9	







ZK3A MAIN TEAM ARRIVAL

- The main team members from all around the world will meet each other in Apia, Samoa on Sep 29th
- Some members travelled over 10,000 miles to Apia, Samoa.





PREPARATION FOR DEPARTURE





DEPARTURE TO TOKELAU



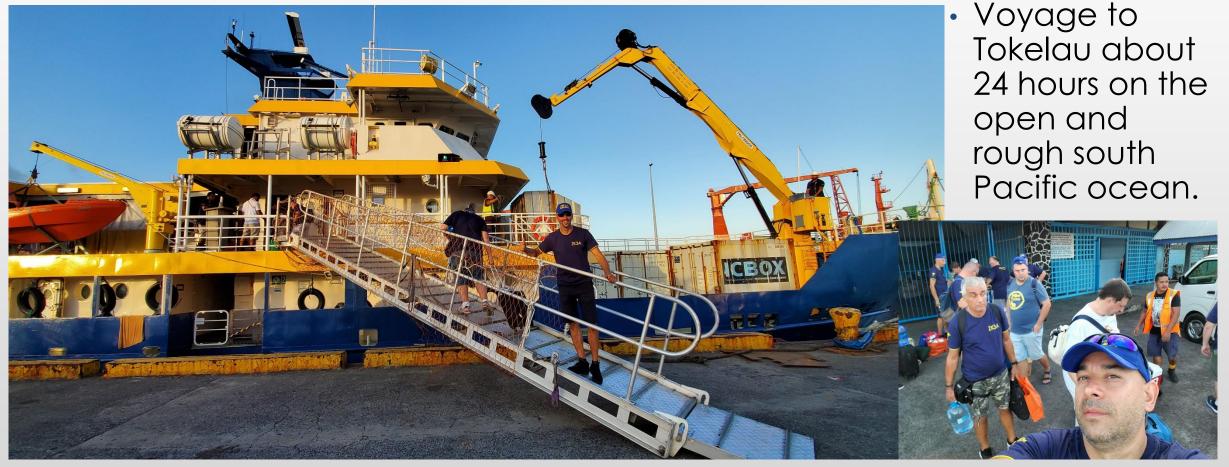


BORDER & VISA CONTROL





BOARDING TO MATALIKI SHIP





• Our home for the next 24 hours



Rooms on lower deck



Sleep spaces on top deck



VOYAGE TO TOKELAU STARTED





MATALIKI SHIP CAPTAIN



 Safety and lives of entire ZK3A team members was dependent on this amazing person.



ON THE WAY TO TOKELAU





MEANWHILE IN TOKELAU...





24 HOURS LATER TEAM ARRIVES





ON THE WAY TO FAKAOFO ATOLL



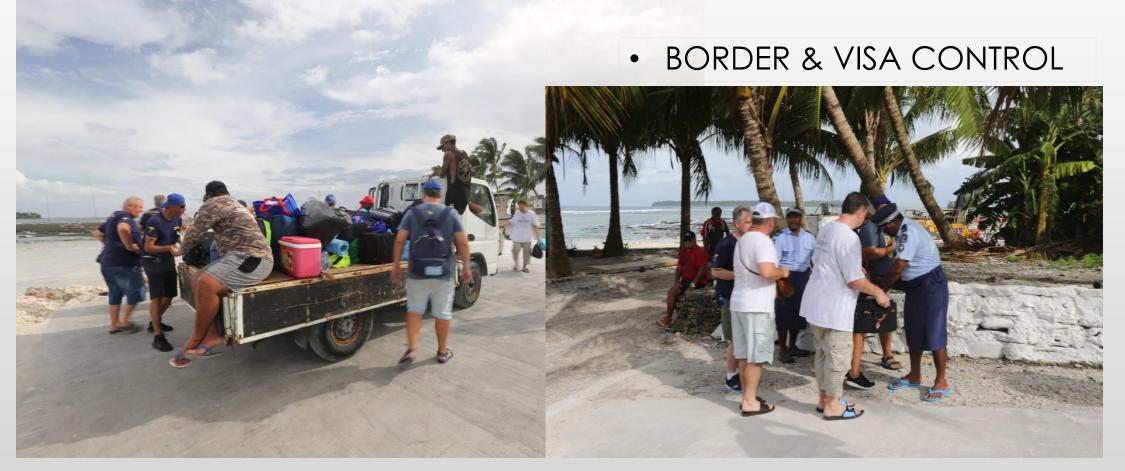


ARRIVING IN FAKAOFO





UPLOADING BAGGAGE





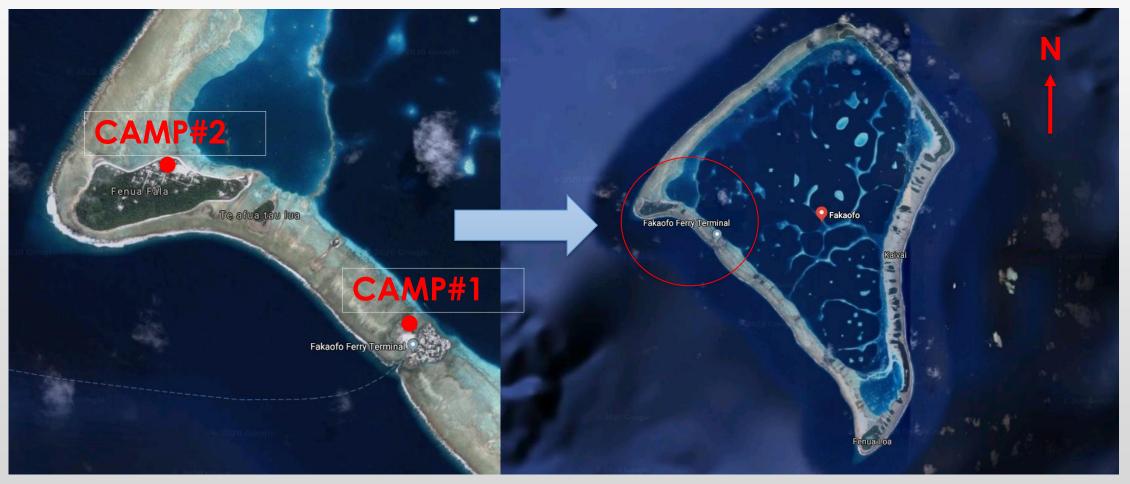
MEETING WITH LOCAL GOVERNMENT



 ZK3A main team safely arrives to Tokelau (Fakaofo atoll) and ready to start activating ZK3 DXCC on all bands.



CAMPS LOCATIONS





CAMP#1 TEAM LODGING





CAMP#1 RADIO SHACK





CAMP#1 ANTENNAS



• 4 SQUARE 80M BAND

• 4 SQUARE 40M BAND



CAMP#1 ANTENNAS CONTINUE..

- 3 el Yagi for 20m-15m-10m bands.
- Main direction is NORTH.



- 3 el Yagi for 30m-17m-12m WARC bands.
- Main direction is NORTH.



MORE ANTENNA PHOTOS





CAMP#1 EQUIPMENT

- ELECRAFT K3 & K3s
- ICOM IC-7300
- SPE EXPERT 1.5k PA
- HF POWER
 COMBINERS
- HIGH POWER BPFs
- ANTENNA CONTROLs





CAMP#1 OPERATING POSITIONS



 Total of 4 operating positions covering HF bands 3.5MHz to 28MHz with 1.5kW.



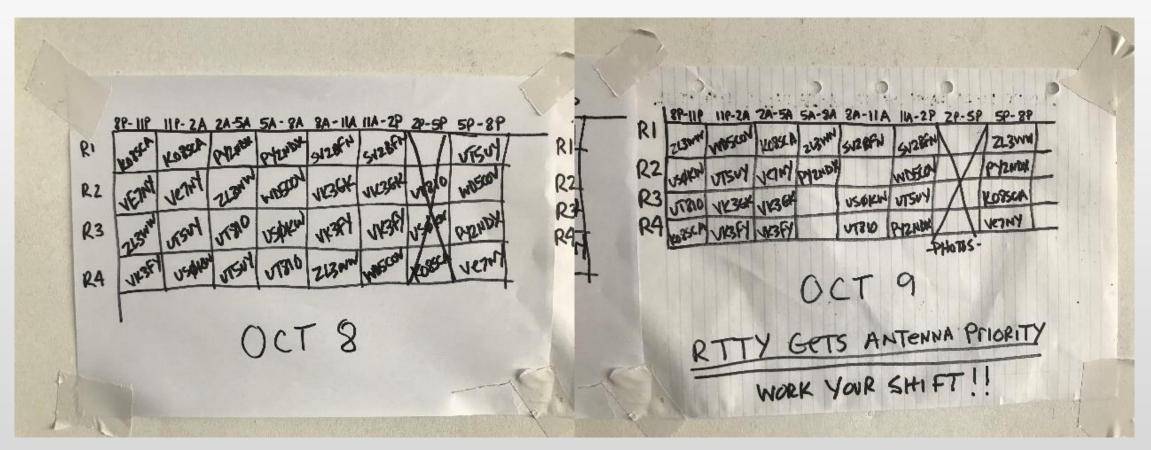
RTTY STATION AT CAMP#1 & 2



- We had total of two RTTY operators with two dedicated digital modes operating positions one per each camp.
- CAMP#1 Vangelis SV2BFN
- CAMP#2 Alex K6VHF
- Over 2300 RTTY QSOs in ZK3A
 log

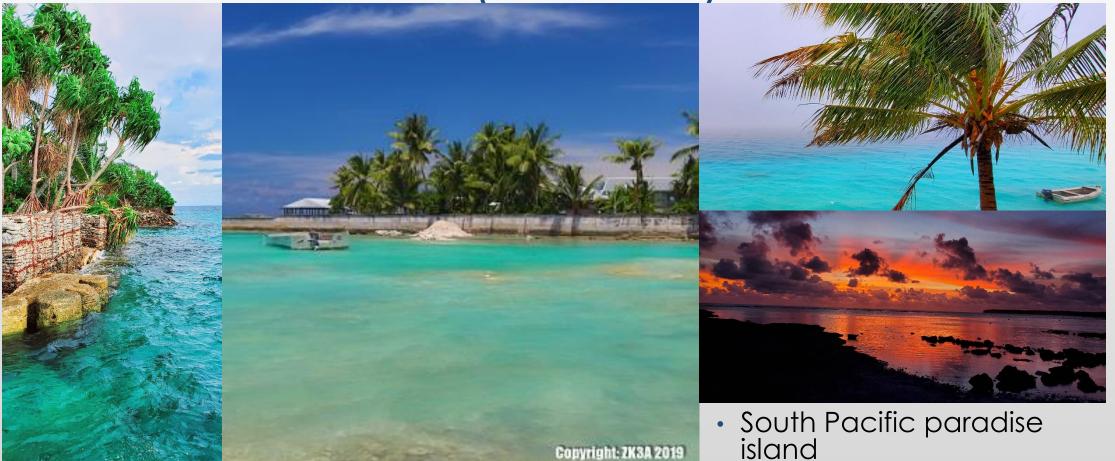


CAMP#1 OPERATORS SCHEDULE





CAMP#1 VIEWS (VILLAGE)





PANORAMIC VIEW







VILLAGE AERIAL VIEW

Thanks to Adrian KO8SCA for the nice drone photos.



CAMP#2 TEAM LODGING





CAMP#2 RADIO SHACK





CAMP#2 ANTENNAS



- VDA antenna for 20m-17m-15m-12m bands
- Dipole for 60m band (FT8 only)
- Ground Plane for 80m band.
- 3 el Yagi for 20m-15m-10m bands.
- 3 el Yagi 30m-17m-12m bands.
- Ground plane for 40m band.



CAMP#2 ANTENNAS CONTINUE..



• 9 EL Yagi 6 meter band for Earth-Moon-Earth (EME)

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CAMP#2 ANTENNAS CONTINUE..



- The famous full size160m band antenna that became the symbol of ZK3A expedition.
- Main direction is NORTH (NA&EU).
- ZK3A DX expedition first time ever activated ZK3 on 160m.



CAMP#2 EQUIPMENT

- ELECRAFT K3 & K3s
- KENWOOD TS-590S
- SPE EXPERT 1.5k PA
- BURST 2.5kW PA
- HIGH POWER BPFs
- ANTENNA CONTROLs



CAMP#2 OPERATING POSITIONS





 HF FT8 and 6m EME position with 1.5kW power.

- 2 positions 80m to 10m bands with 1.5kW power.
- 60m FT8 and RTTY position.

 Main operating position 160m to 10m bands with 2.5kW power.



on two

two

same

time.

It's not

fun!

easy, but

bands in

different

modes at

RTTY AND SSTV POSITIONS





ACTIVATING 60M BAND



- Used Elecraft K3s and simple dipole antenna.
- Propagation on 60m band was amazing.
- 292 FT8 QSOs in the log.



6M BAND EARTH-MOON-EARTH





FIRST 6M EME QSO - YAY!



CALLING CQ 6M EME







CAMP#2 VIEWS (FENUA FALA)





FENUA FALA VILLAGE VIEWS



TOKELAU TRANSPORT





• This boat(school bus) is one of the few other boats that used to commute between different pars of Fakaofo atoll.



COMMUTING WITHIN FAKAOFO



• Boats...boats...boats... sometimes 5-10 times per day between camps..

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VIEWS FROM THE BOAT





TOKELAU WEATHER





STORM IS APPOACHING...



Calm before massive storm which took down 3 power amplifiers.

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FOOD DELIVERY FOR ZK3A TEAM





- Food delivered three times daily.
- Mainly it's fish (sashimi) or fast food.
- Water also delivered on daily basis.



FOOD FOR CAMPS





- There was a grocery store but no sales to foreigners.
- We were fully depended on locals and their choice.
- Team missed a normal food and in some days we just didn't eat.



TEACHING YOUNG LOCALS





TEACHING YOUNG LOCALS





KIDS IN FAKAOFO





SCHOOL KIDS GOING HOME





LOCALS FROM THE VILLAGE





FISHING IS THE EVERYTHING!





FISHING IS NUMBER ONE!



LOCAL CELEBRATIONS







LOCALS ARE VERY FRIENDLY





EMERGENCY EVACUATION Something that was installed within the few days we managed to

Something that was installed within the few days we managed to disassemble and pack within 3 hours. We had two choices: Leave immediately or stay another ten days. Answer was very clear – LEAVE!





TIME TO LEAVE...





BOARDING A BOAT





ON THE WAY TO MATALIKI SHIP





VOYAGE BACK TO APIA



Bye Bye Tokelau, We will be BACK!



ARRIVAL TO APIA, SAMOA(5W)





After 24 hours sailing in south Pacific ocean ZK3A team safely arrived to Apia, Samoa.

Photo right after immigration control at the port.

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PARTY TIME





UPOLU ISLAND EXPERIENCE





VIEW OF UPOLU ISLAND(5W)





VIEW OF UPOLU ISLAND(5W)





VIEW OF UPOLU ISLAND(5W)





5W AMATEUR RADIO LICENSE

Alex K6VHF (5W0NA), Lee VK3GK(5W0GK) and Chris VK3FY(5W0FY) received 5W callsigns in Samoa. All three were operating from 5W1SA position using their new callsigns and activating 5W on the air.





TIME TO FLY HOME

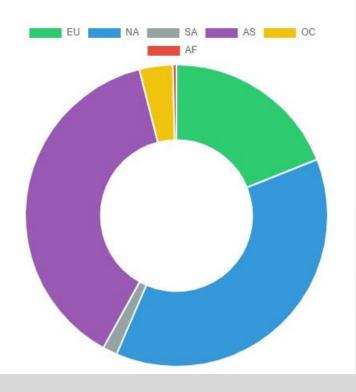




Sector Clublog

Breakdown by Continent

Continent	Total QSOs	%	
Africa	206	0.4	
Asia	19977	<mark>38.</mark> 0	
Europe	9953	18.9	
North America	19738	37.5	
Oceania	1873	3.6	
South America	818	1.6	
Totals	52565	1 00.0	



7K3A QSO STATISTICS

Band/Mode breakdown

Band	\$\$B	CW	FT8	RTTY	SSTV	Total	Total %
160	54	1911	412	0	0	2377	4.5%
80	562	3664	945	77	0	5248	10.0%
60	0	0	292	0	0	292	0.6%
40	1656	4626	2035	393	0	8710	16.6%
30	1	3728	2185	213	0	6127	11.7%
20	2658	7367	2370	1048	1	13444	25.6%
17	2683	4123	2002	250	0	9058	17.2%
15	894	2858	1148	379	9	5288	10.1%
12	280	1044	443	0	0	1767	3.4%
10	11	128	93	12	0	244	0.5%
6	0	0	10	0	0	10	0.0%
Totals	8799	29449	11935	2372	10	52565	

THANKS TO ALL CLUBS & ORGANIZATIONS



THANKS TO ALL SUPPORTERS AND DONORS





ZK3A QSL CARD



YT1AD Head of ZK3A QSL & LoTW team.

Direct Mail QSL **Direct QSL via LZ1JZ** Tony Stefanov P.O. Box 830 1000 Sofia Bulgaria

RST

THANKS FOR YOUR ATTENTION!



CUAGN & 73!

QUESTIONS?

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