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DX7EME

THE 2017 EME DXPEDITION
TO PANGLAO ISL. PJ19VN
October 31. - November 14.



**Panglao
PJ19vn**

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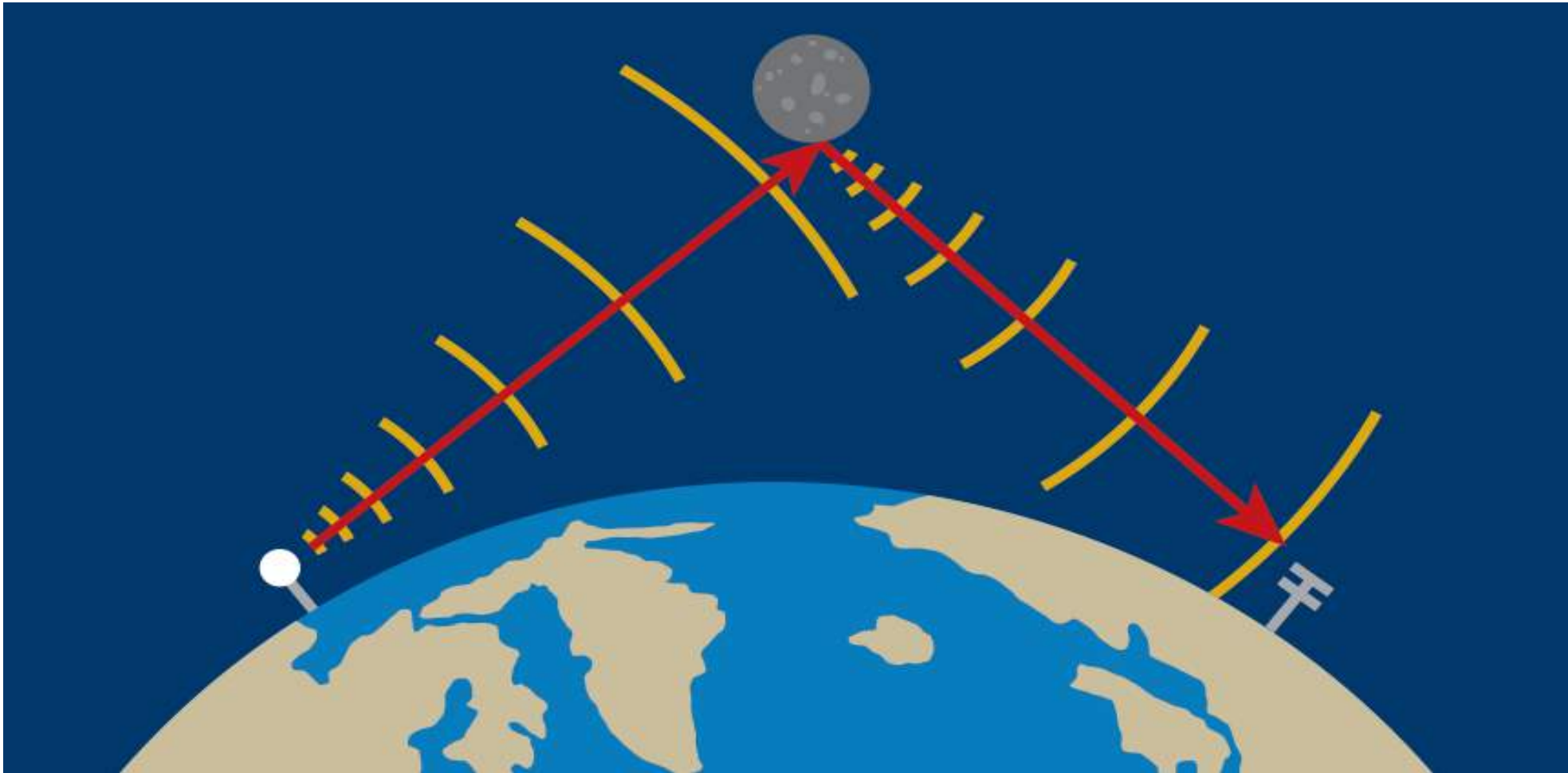


Panglao Island - Visayas - Bohol - Philippines



OC-129

Earth - Moon - Earth operation from the Philippines
Bridging = 2 x 365,000 km



Why an expedition to the other end of the world ?

- EME community:
- A community of Radio amateurs relating to the Earth - has specialized ground operation - moon.
- Many VHF radio amateurs enable other countries especially to distribute new DXCC. (As well as on shortwave)



- Experience Amateur Radio:
- Once to sit in the life at the other end of the pileup.
- To activate a DXCC being sought from as many OMs.
- It is to go in the EME community common even on DX expedition or to participate in the financial effort that moves as a donation ranging from 10 to 20 €.

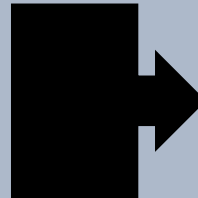
Preparation for activation of the DXCC



Philippines




- clarify preconditions
preparation time ~ 1 year
- DX expedition members set
- Search local contacts
- apply for guest license
- Search accommodation
- clarify costs and flights




- If a DX - Expedition at all possible
- DK5YA / Udo - DL8FBD / Gerald
- DK5EW / Erwin - DU1EV / Edi
- DU1EV - President of the Philippine Amateur Radio Association PARA
- Accommodation about Airbnb private rentals worldwide
- Cost per person about 1300 €

Apply the guest license

- Necessary were:
- Copy of the AFU's license
- Valid passport
- translated Advanced certificate and certified in English
- Membership in the Philippine Amateur Radio association PARA

 **Republic of the Philippines**
NATIONAL TELECOMMUNICATIONS COMMISSION
NATIONAL CAPITAL REGION
BIR Road, East Triangle, Diliman, Quezon City 1104
Tel. No. (02) 924-4010 Fax No. (02) 924-4072


For Integrity Good Governance Honest Transparency
No To Corruption

Control No.: 0136
ARLTP-NCR-0295-17
Permit No.

TEMPORARY PERMIT

This Temporary Permit is hereby granted to **ERWIN WITT**, German citizen with postal address at **Lustgartenweg 10, 72514 Inzigkofen Germany** to operate an **AMATEUR CLASS "A"** radio station(s) with the following particulars:


LOCATION OF STATION	CALLSIGN	FREQUENCIES (MHz)	POWER (Watts)	BANDWIDTH/ TYPE OF EMISSION
Panglao Island Bohol	DU7/DKSEW	1.8-1.9/1.9-2.0 3.5-3.775/3.775-3.9 7.0-7.10 10.0-10.11014-14.1/14.275-14.351 8-068/18.16821.0-21.1/21.1-21.4 524.890/24.99028.0-28.5/28.5-29. 750.0-53.0430-440144-144.1/144-146	1 Kw [CW] 2 Kw [PEP] State of the art on VHF/UHF fixed, mobile or portable station.	A1A/F1B/J3E A1A/F1B/J3E A1A/F1B/J3E A1A/F1BA1A/F1BA1A/F1B/J3EA1A/F1B/J3EA1A/F1B/J3E/F3 EA1A/F1B/J3E/F3E/F3 EA1A/F1B/J3E/F3E

AUTHORIZED EQUIPMENT(S):
Baofeng GT-3TP, SN: 28020901GT392379

This Temporary Permit is hereby granted subject to Memorandum Circular No. 87-174. It is understood that the operation of subject radio station shall be done in accordance with the existing Philippine Amateur Radio Laws and Regulations and shall be valid unless revoked or cancelled.

This PERMIT shall be valid until **August 22, 2018**

Notes: 1. Issued under a reciprocity licensing agreement.
2. This license is issued subject to inspection on a later date.


DELILAH E. DELES
Deputy Commissioner
7 Officer-In-Charge, NCR

Date issued: **25 AUG 2017**

OR No.: 932971
OR Date: August 23, 2017
Amount: Php 370.00
Processor: Reynald C. De Guzman
DOCUMENTARY STAMP TAX PAID
08/24/2017 01:17 PM

GT-3 TP MARKIII



The transceiver was necessary to obtain a license because the authorities could begin with a Transverter as radio equipment nothing. Thus my Baofeng was as DX - entered expedition radio.

Departure: October 30, 2017

Flight via Frankfurt - Hong Kong - Cebu - Bohol - Panglao



Suitcase weights for 4 people +

Carry-on baggage:

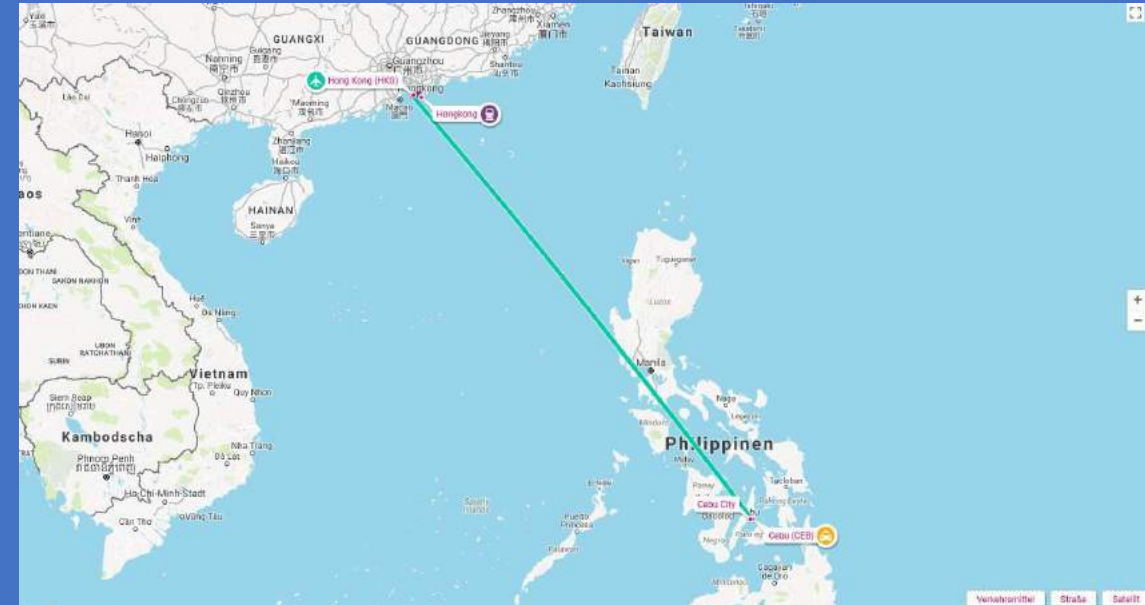
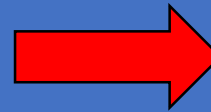
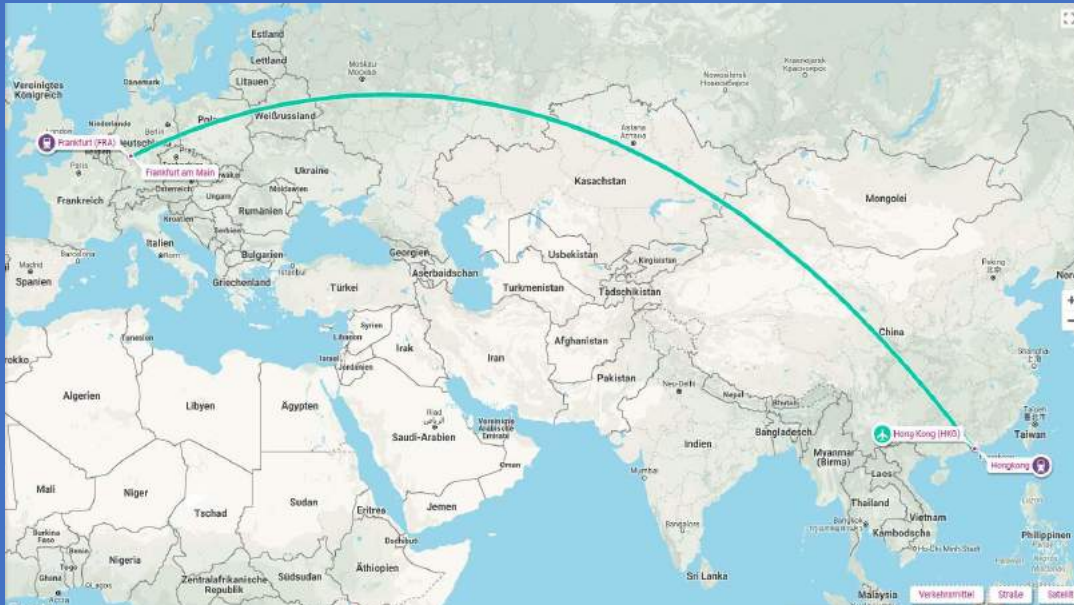
152kg

Antennas and rotors in advance by

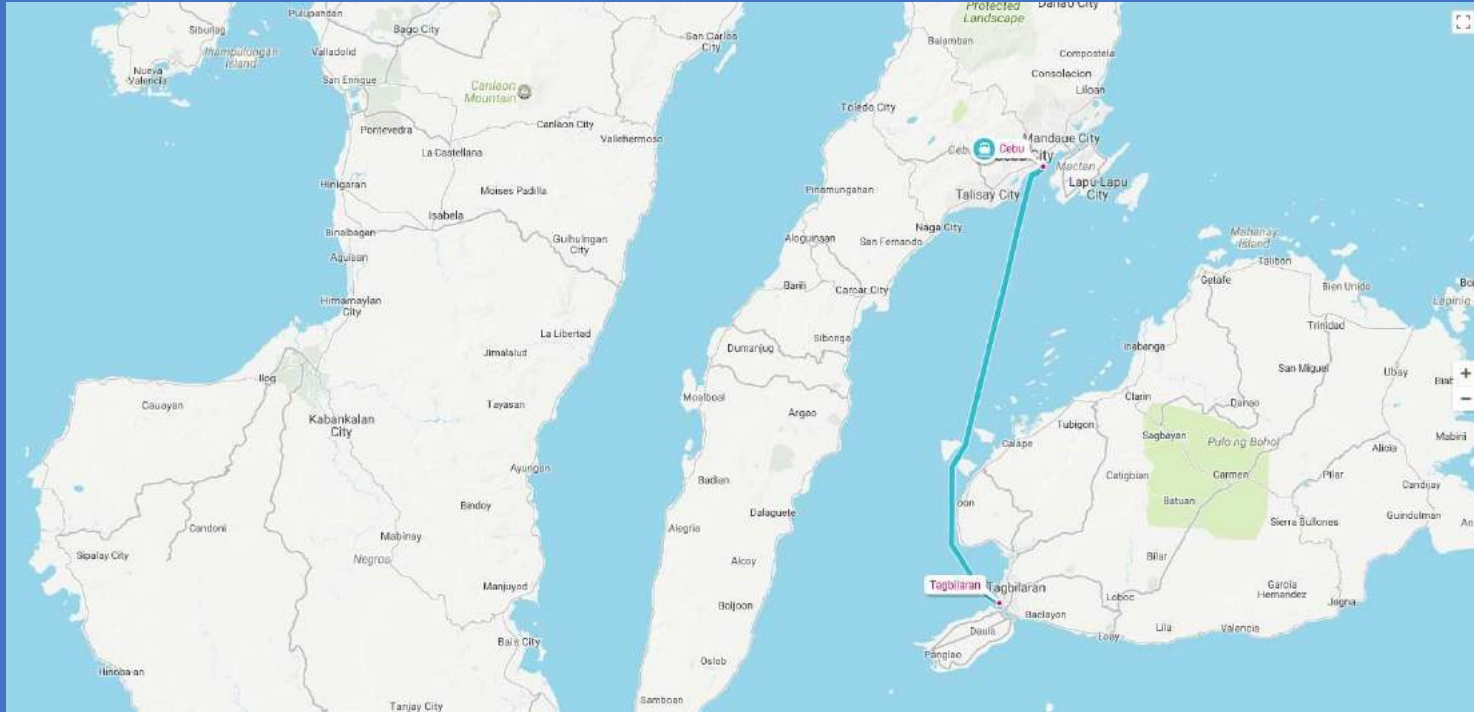
UPS ca.50Kg

transport costs

1200 € uro



From CEBU to Bohol 2.5 hours by Oceanjet over the sea

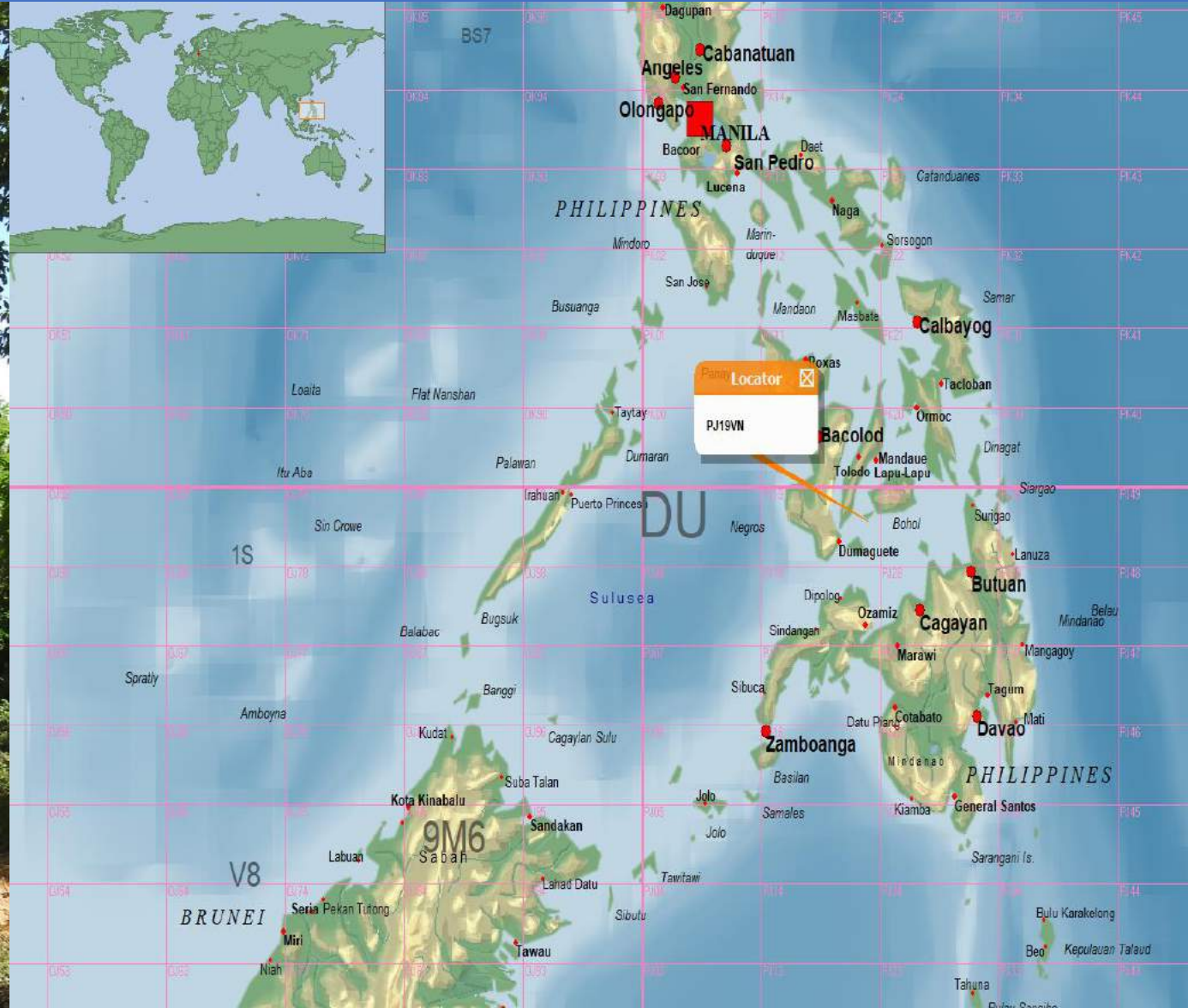


Departure point Cebu Island



Arrival at the QTH on Panglao Island OC-129 after 24 hours

Travel time in tropical environment: 33 ° C / humidity 98%



After relating the room, it went straight to build the antennas on the roof of Tower in ca.16m height and countless steps.



After completion of the antenna installation and verification of operation and Measurement with the analyzer radio operation could begin



- Elecraft K3S with built-in sound card for digital mode operation in WSJT - JT65b
- Transverter of HA1YA 28MHz built on 144MHz with two receivers for diversity operation
- ITB 144 MHz power amplifier max 1KW
- Antennas 2 x 8EL Xpol

The moon on Panglao went towards evening and the next day at morning under. This one-shift operation with always two OPs was necessary. A OP operated the TRX of the other OP processed the log and controlled from time to time, the antennas.

DK5YA + DL8FBD



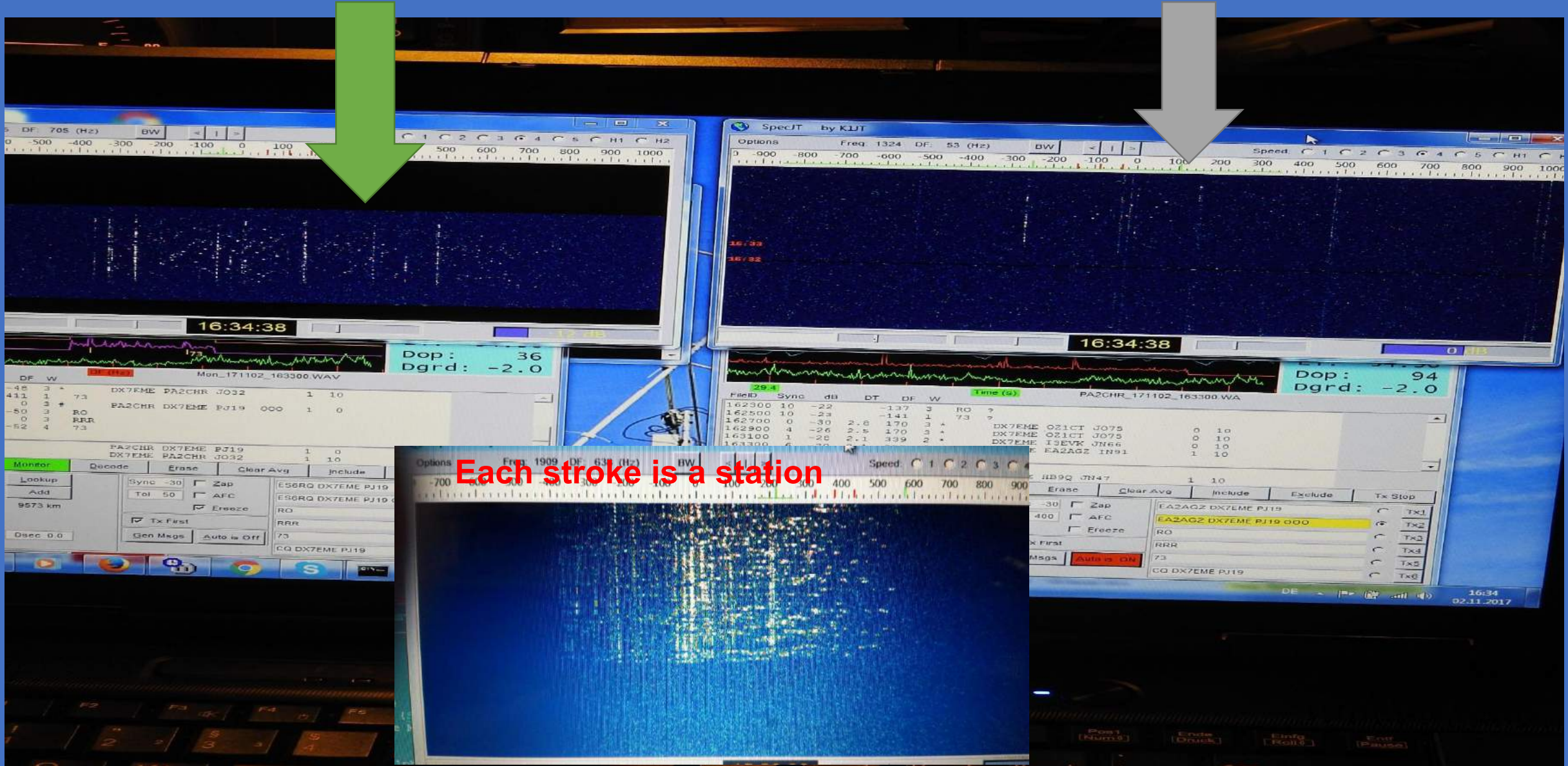
DK5EW



The first pileup over the moon: Picture shows Software WSJT mode JT65b

Vertical antenna polarization

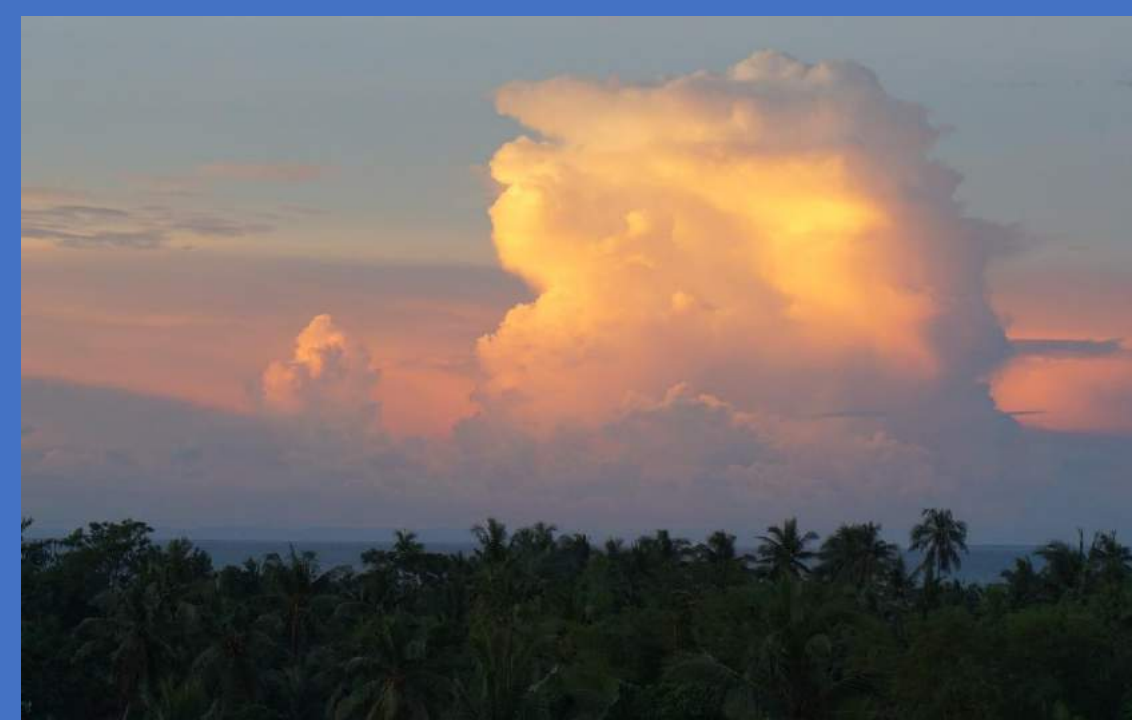
Horizontal antenna polarization



antenna Impressions



Towards evening, often tropical storm moved onto which led to disturbances. Again and again had the Radio operation will be canceled for safety reasons.



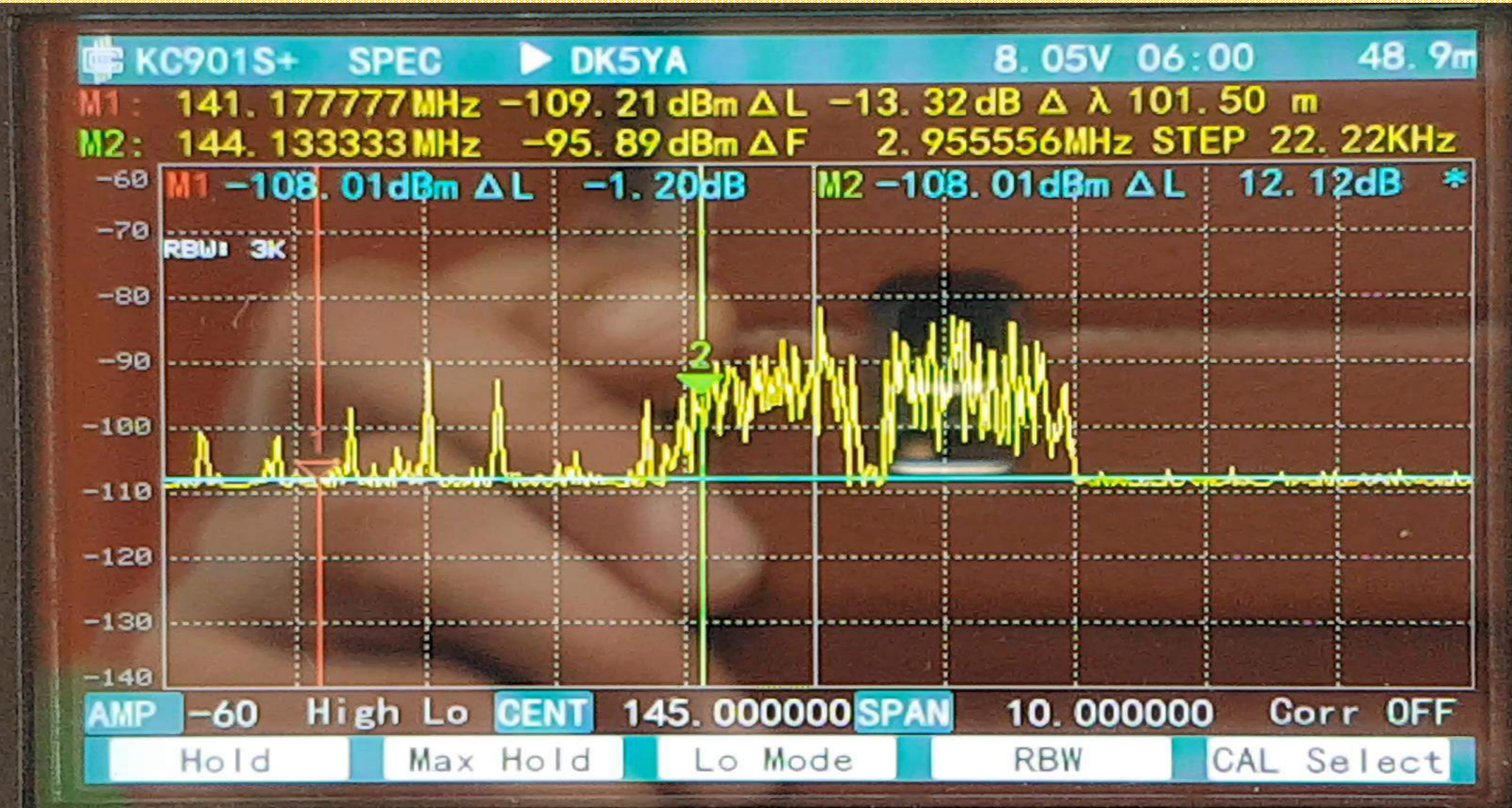
The tropical rain was partly horizontal - our antennas but were firmly anchored.



Other disturbances coming from the power grid. Here was at the property without protective conductor which also wired on the phil. Archipelago is common. Depending on how you turned the plug were the disturbances on the radio less, or you got in touch the radio station a slight electric shock. The disturbances were in some cases up to 10 dB above the noise which made the reception of signals EME almost impossible.



EME disturbances in the radio sector through digitized speech. In the Philippines, the TV signal from hut to hut is transmitted which is in the range of 2m in the poorer regions.



Result after 5 days (4 Monde) with many interruptions to 144 MHz EME:

271 QSO including 5 x 1 Yagi stations

Result after 2 days on 70cm EME: 14 QSO which 1 QSO in CW !!

Result on shortwave 1000 QSO



DU 1 EV – Eddie Valdez

Eddie is the president of the Philippine Amateur Radio Association PARA. He was very helpful in obtaining the licenses for us.



Full-time, he is a professor of international Economic law at an elite university in Manila.



By Eddie groups came phil. Radio amateurs to visit which were very interested EME on the technology and on the propagation condition. Radio operation in the Philippines runs with handheld radios and FM. Even short-wave operation is rarely operated.





For shortwave an end-fed dipole with 42m length of the company HyEndFed was used.

This is a multi-band Fed from 80/40 (30) 20/17/15/12 / 10M



Tourist program - what you must do so



Ba li casac l sl and



BOHOL CHOCOLATE HILLS



BOHOL TARSIER - THE SMALLEST PRIMATE OF THE WORLD
they are smaller than a palm



Buko King of Bohol - WAS ALREADY IN BETS THAT. HE OPENS COCONUTS WITH TEETH



IMPRESSIONS







COCK FIGHT - THE PEOPLE OF SPORT Filipinos



It is bet to make money and there is always a loser



Everything comes to an end. The antennas were packed again and picked up by UPS.



Unfortunately, the
packages are up Today
not arrived.
That's a loss
of ~ € 1,500



My suitcase
had 32kg

The return flight went this time from Bohol to Manila from Hong Kong to Frankfurt

