

# Drifts with driver, 2-4 Mayo 2017

## 1. Switchyard connections

### Drifts with driver May 2017

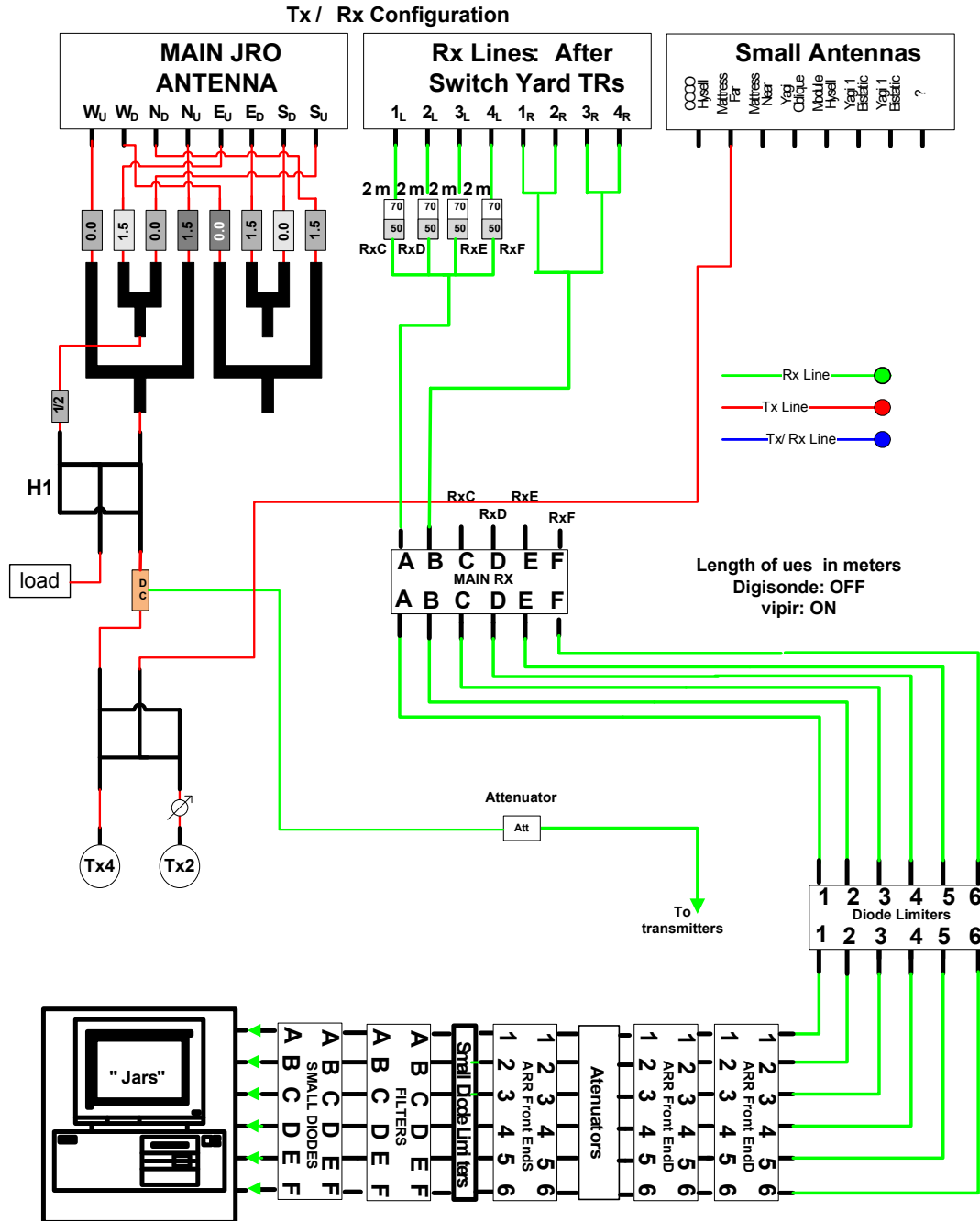


Figure 1

2. Main antenna phasing

**May2017**

**On axis antenna  
Main Antenna Phasing**

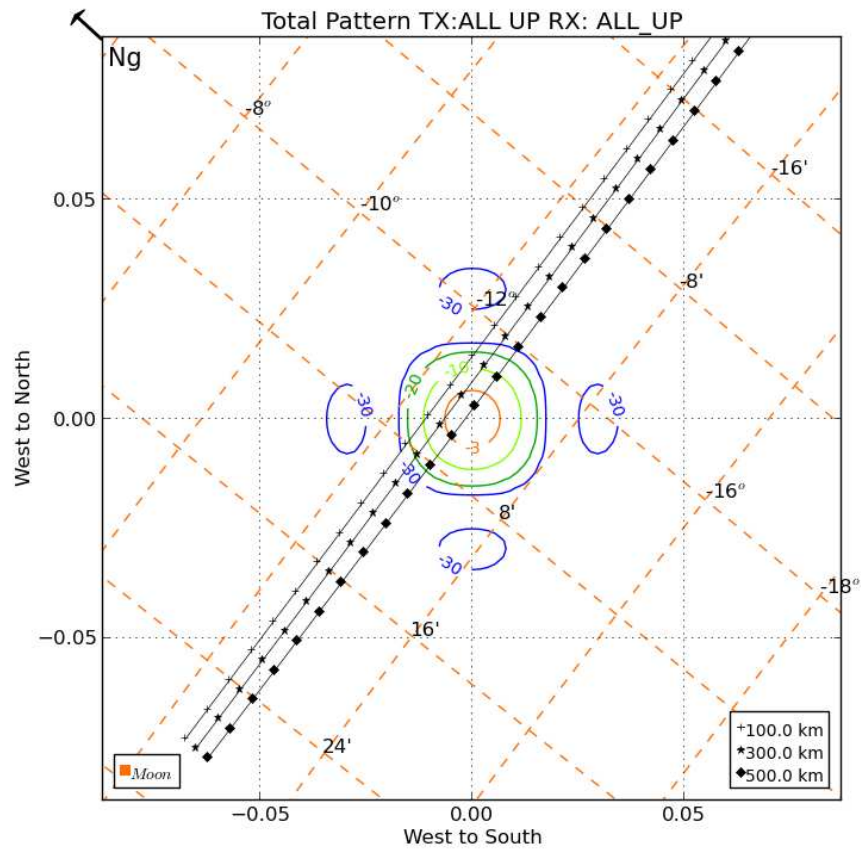
North Quarter				East Quarter			
4/2	4/2	4/2	4/2	4/2	4/2	4/2	4/2
4/2	4/2	4/2	4/2	4/2	4/2	4/2	4/2
4/2	4/2	4/2	4/2	4/2	4/2	4/2	4/2
4/2	4/2	4/2	4/2	4/2	4/2	4/2	4/2

West Quarter				South Quarter			
5/3	5/3	5/3	5/3	5/3	5/3	5/3	5/3
5/3	5/3	5/3	5/3	5/3	5/3	5/3	5/3
5/3	5/3	5/3	5/3	5/3	5/3	5/3	5/3
5/3	5/3	5/3	5/3	5/3	5/3	5/3	5/3

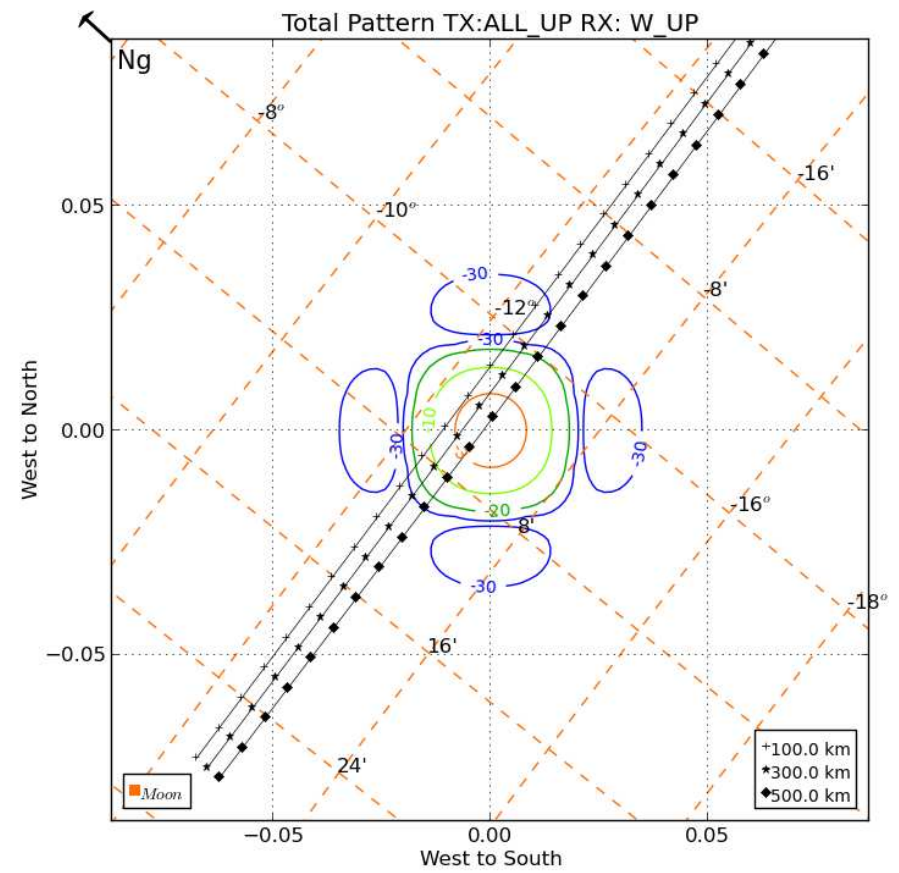
*Figure 2*

### 3. Antenna pattern



Over Jicamarca: 03-May-2017 (123)

*Figure 3 CHA*



Over Jicamarca: 03-May-2017 (123)

*Figure 4 CHC,CHD,CHE,CHF*

#### 4. Experiment overview

	PARAMETERS	
Experiment	128 TX without code	22 TX with Barker13 code
Synchronization	3 x PPS	
NTX	150	
	128	22
IPP (Km)	1500	
TxA (Km)	75	19.5
Code A *	TX flipped with a pseudo-random sequence.	Flipped Barker13 code in a pseudo-random sequence.
Duty cycle (%)	4.46	
	5	1.3
Transmitters	Drivers 2 y 4	
Acquisition system	JARS	
Sampling window	Window 0	
	h0	0km
	dh	1.5km
	nsa	990
# channels	6	
Profiles per Block	150	
Blocks per File	100	
Data type	Raw Data	
Data rate (GB/h)	8	

**Table 1**

\*

Pseudo-random sequence to flip the first 128 transmitter profiles:

0, 0, 1, 0, 0, 0, 0, 1, 1, 1, 0, 0, 1, 1, 1, 0, 0, 1, 0, 0, 0, 1, 0, 1, 0, 0, 0, 1, 0, 0, 0, 1, 1, 1, 1, 0, 0, 1, 1, 1, 0, 0, 0, 0, 1, 0, 1, 0, 1, 1, 0, 0, 0, 0, 1, 0, 1, 0, 0, 1, 1, 0, 1, 0, 1, 1, 1, 1, 0, 1, 0, 0, 1, 1, 0, 1, 1, 0, 0, 0, 1, 0, 1, 1, 1, 0, 1, 1, 0, 1, 1, 0, 1, 0, 0, 0, 0, 0, 1, 1, 1, 1, 0, 1, 1, 1, 1, 0, 1, 0, 1, 0, 1, 1, 0, 1, 0, 0, 1, 0, 0, 1, 0, 1, 1, 0, 1, 1
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**Table 2**

Pseudo-random sequence for the next 22 profiles:

0000011001010, 1111100110101, 0000011001010, 1111100110101, 1111100110101, 0000011001010, 0000011001010, 1111100110101, 1111100110101, 1111100110101, 0000011001010, 1111100110101, 1111100110101, 1111100110101, 1111100110101, 0000011001010, 1111100110101, 0000011001010, 1111100110101, 0000011001010, 0000011001010, 1111100110101
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**Table 3**