

# PROGRAM BACAR 7 – SECUNDA RADIO CLUB – 12 OCTOBER 2019

- 04:30 Arrive at launch site
- 05:00 Flight briefing
- 05:00 Prepare the payloads
- 05:30 Prepare the balloon launch area
- 05:45 Pre-flight checks all payloads
- 06:00 Build the train
- 06:15 ZS6SRC Shuttle and WBT Payload Confirm ready
- 06:30 Testing of All Telemetry Complete
- 06:30 Prepare balloon and inflate
- 06:50 Balloon inflation complete confirm ready
- 06:55 Hook up ZS6SRC Shuttle and train to balloon
- 07:00 Final checks
- 07:05 Launch Balloon
- 07:10 Chase in progress
- 08:00 Balloon burst
- 08:30 Payload recovery start
- 12:00 Arrive with payloads at Base station
- 12:45 Start data download and prepare final presentations
- 14:00 Give Feedback om Payloads at Base station
- 15:00 Bring and Braai to celebrate successes and Not Yet Successes

## BACAR 7 PAYLOAD TRAIN BAND PLAN

Position	Description	TX Freq	RX Freq	Mass	Notes
1	Shuttle	NA	434.65 Mhz	1800 g	Flight controller, test platform, GSM positioning, UHF Telemetry
2	SPOT + camera	10GHz	NA	500 g	
3	Curro	NA	NA	500 g	
4	Kletsious	145.865 Mhz	435.15 Mhz	1100 g	Linear 15khz band with not inverted linear
5	Jeugland1	NA	NA	500 g	
6	10 Ghz voice beacon	NA	10.480 Ghz	400 g	fm voice beacon
7	APRS	144.8 Mhz	NA	500 g	
8	1.2GHz Telemetry	NA	1.2966 GHz	500 g	CW beacon
9	Jeugland_SSTV	144.5	NA	500 g	
10	LORAWan	868	868	120 g	
11	RasPI local lan	2.4 Ghz	2.4 Ghz	500 g	
12	AFRICube	145.95 Mhz	435.1 Mhz	100 g	beacon 145.995 Mhz fsk linear 80kHz not inverted aprs possible
13	WBT	145.55 Mhz	NA	1300 g	Voice beacon with status
14	CSSR	NA	NA	500 g	Crossband repeater fixed freq FM
15	Botanicals	NA	NA	250 g	
	<b>PAYLOAD MASS</b>			<b>9070 g</b>	
	Parachute and ropes			0	
	<b>TOTAL MASS</b>			<b>9070 g</b>	