Specified parameter	ARA 2012++ planned	ARA 2011 prototype
Number of Vpol antennas	8	6 (in ice)
Vpol antenna type	bicone	bicone
Vpol antenna bandwidth (MHz)	150-850	150-850
Number of Hpol antennas	8	8 (in ice)
Hpol antenna type	quad-slotted cylinder	bowtie-slotted-cylinder
Hpol antenna bandwidth (MHz)	200-850	250-850
Number of Surface antennas	4	2
Surface antenna type	fat dipole	fat dipole
Surface antenna bandwidth (MHz)	30-300	30-300
Number of signal boreholes	4	6
Borehole depth (m)	200	30
Vertical antenna configuration	H,V above H,V	V or H above H or V
Vertical antenna spacing (m)	20	5
Approximate geometry	trapezoidal	trapezoidal
Approximate radius (m)	10	10
Number of calibration antenna boreholes	3	3
Calibration borehole distance from center (m)	40 (2), 750 (1)	30
Calibration borehole geometry	isosceles triangle	equilateral triangle
Calibration signal types	noise and impulse	impulse only
LNA noise figure (K)	< 80	< 80
LNA/amplifier dynamic range	30:1	30:1
RF amplifier total gain (dB)	> 75	> 75