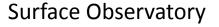
# <u>São Martinho da Serra – SMS</u>

Southern Space Observatory/SSO - INPE



Location: 29.44° S, 53.81° W

Altitude: 0.488 km

Effective Geomagnetic Cutoff Rigidity: 9.3 GV

Standard Pressure: 950 hPa

**Detector Type: Plastic Scintillation** 

## **Telescope Size:**

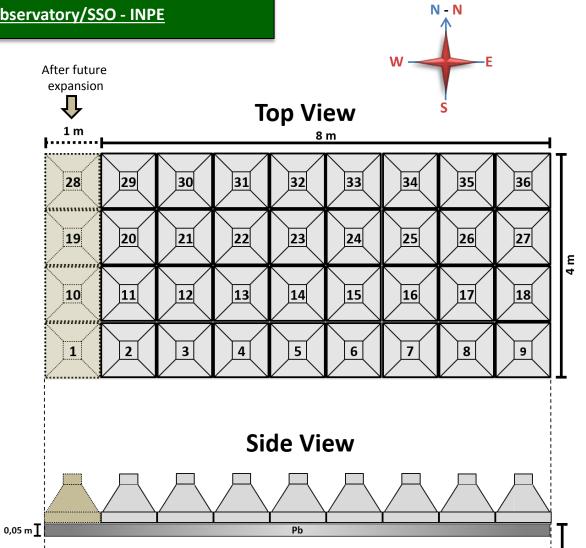
04 m<sup>2</sup> (03/2001 – 12/2005) 28 m<sup>2</sup> (01/2006 - 08/2012) 32 m<sup>2</sup> (09/2012 -

Operation Period: 2001 –

- 12/2005: New recording system using FPGA was introduced

#### **Pictures**:





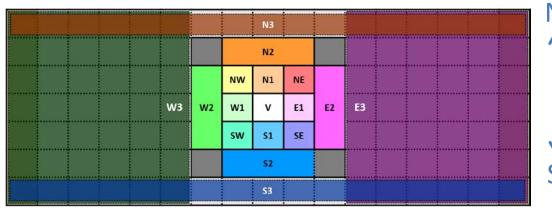
**Relation between** 

**DETECTOR** and **GEOGRAPHIC** Coordinates

1,73 m

# **Conventional Correlation System: 17 directions**

(N3, S3, E3 and W3 are calculated from the new correlation system)



### New Correlation System: 7x17 =119 directions

Ν	-8,3	-7,3	-6,3	-5,3	-4,3	-3,3	-2,3	-1,3	0,3	1,3	2,3	3,3	4,3	5,3	6,3	7,3	8,3
	-8,2	-7,2	-6,2	-5,2	-4,2	-3,2	-2,2	-1,2	0,2	1,2	2,2	3,2	4,2	5,2	6,2	7,2	8,2
	-8,1	-7,1	-6,2	-5,1	-4,1	-3,1	-2,1	-1,1	0,1	1,1	2,1	3,1	4,3	5,1	6,1	7,1	8,1
	-8,0	-7,0	-6,0	-5,0	-4,0	-3,0	-2,0	-1,0	0,0	1,0	2,0	3,0	4,0	5,0	6,0	7,0	8,0
	-8,-1	-7,-1	-6,-1	-5,-1	-4,-1	-3,-1	-2,-1	-1,-1	0,-1	1,-1	2,-1	3,-1	4,-1	5,-1	6,-1	7,-1	8,-1
♦	-8,-2	-7,-2	-6,-2	-5,-2	-4,-2	-3,-2	-2,-2	-1,-2	0,-2	1,-2	2,-2	3,-2	4,-2	5,-2	6,-2	7,-2	8,-2
S	-8,-3	-7,-3	-6,-3	-5,-3	-4,-3	-3,-3	-2,-3	-1,-3	0,-3	1,-3	2,-3	3,-3	4,-3	5,-3	6,-3	7,-3	8,-3
	₩ ← →														<b>→</b> E		