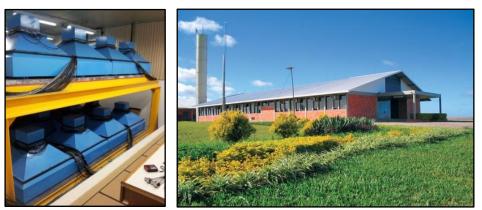
## **Surface Observatory**

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:  $04 \text{ m}^2 (03/2001 - 12/2005)$  $28 \text{ m}^2 (01/2006 - 08/2012)$  $32 \text{ m}^2 (09/2012 - 07/2016)$  $36 \text{ m}^2 (07/2016 - 0)$ 

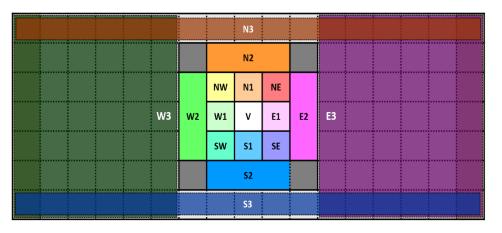
Operation Period: 2001 -

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

## **Pictures:**

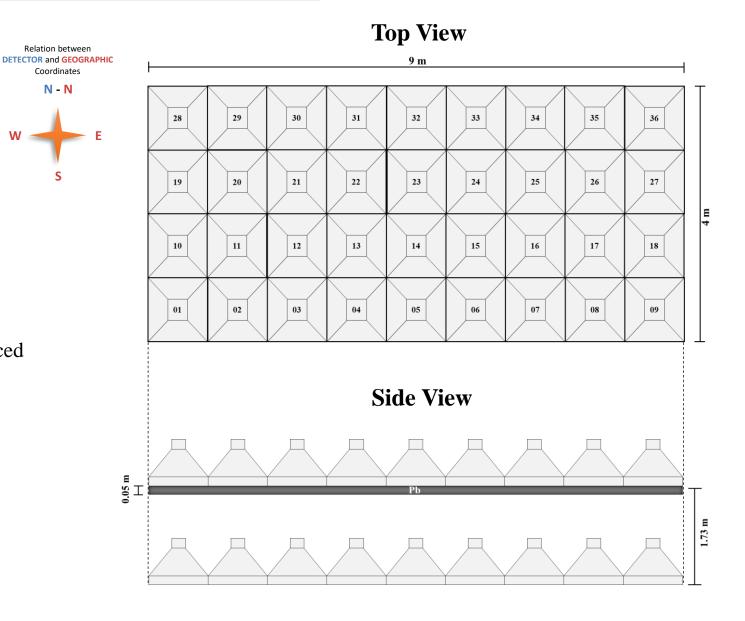


**Conventional Correlation System: 17 directions** (17 directional channels are calculated from the new correlation system)



## São Martinho da Serra – SMS

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## New Correlation System: 7x17=119 directions

