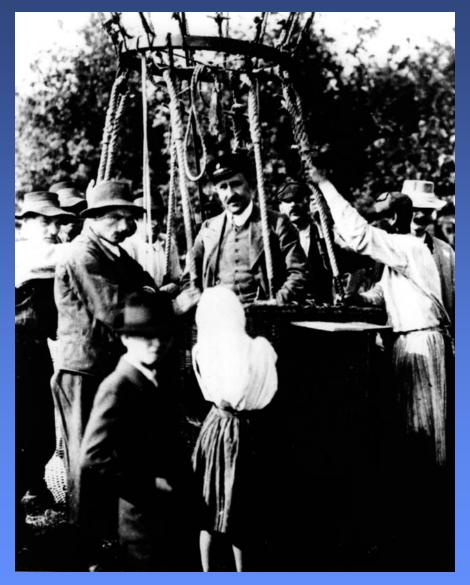
Building the Pierre Auger Observatory



Paul Mantsch

Adventures in Cosmic Ray Physics







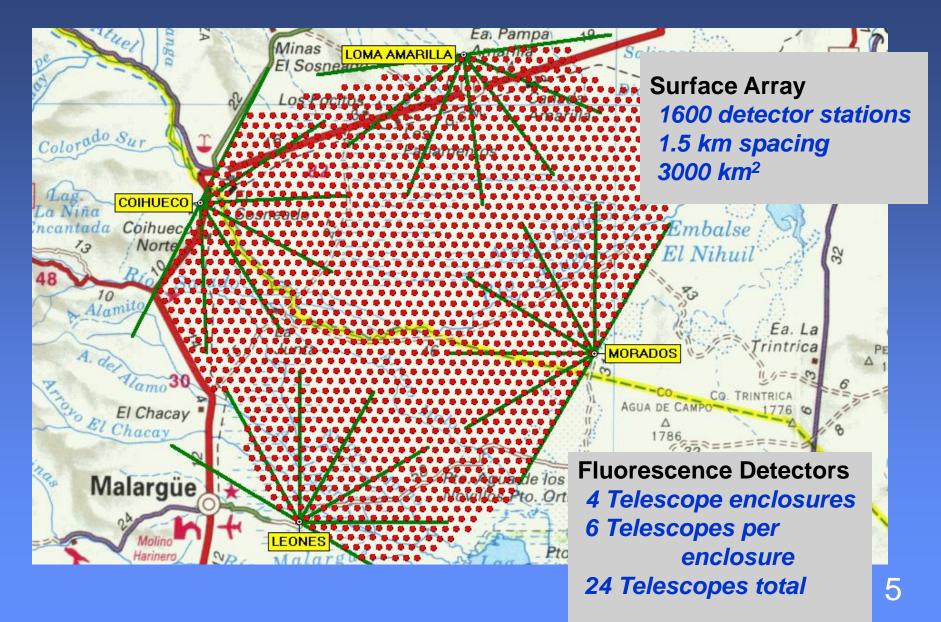
The Builders



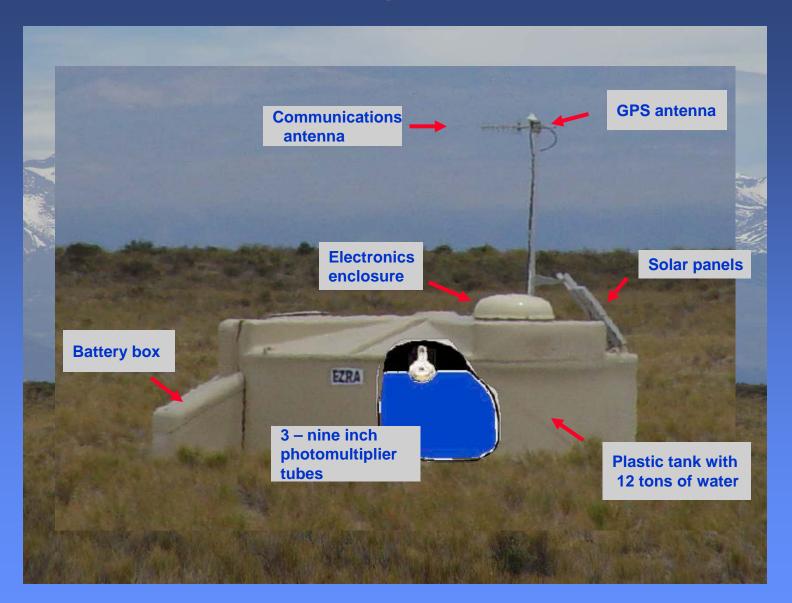




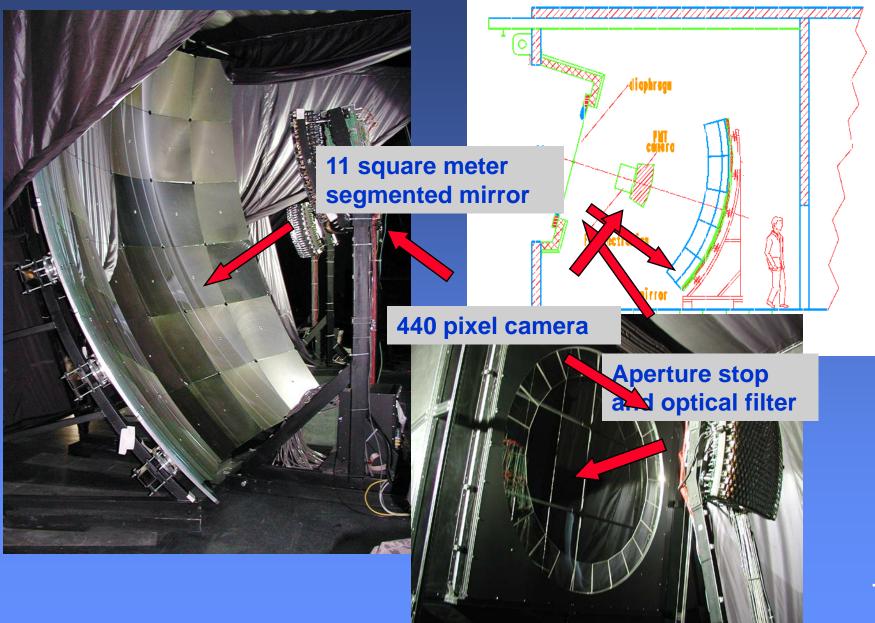
The Observatory Plan



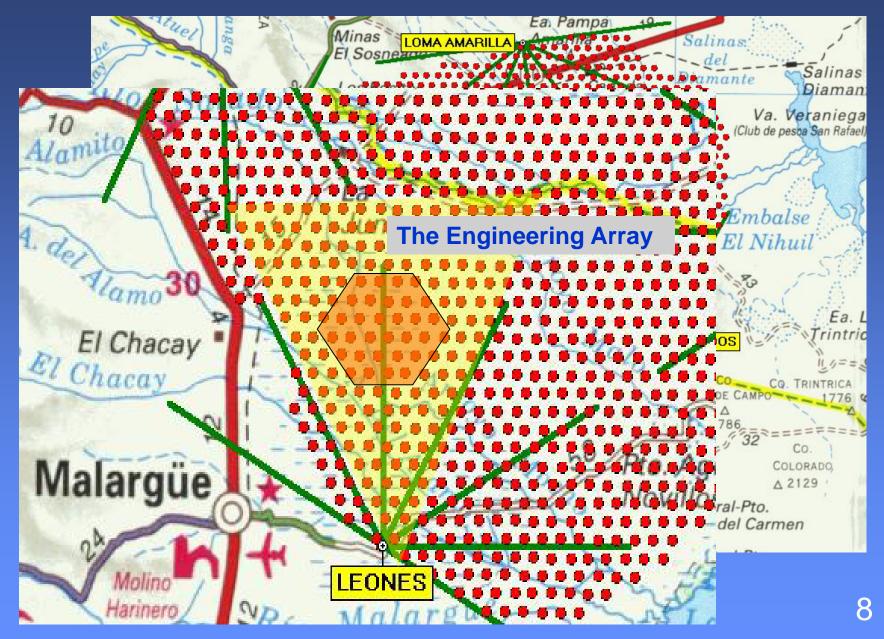
The Surface Array Detector Station



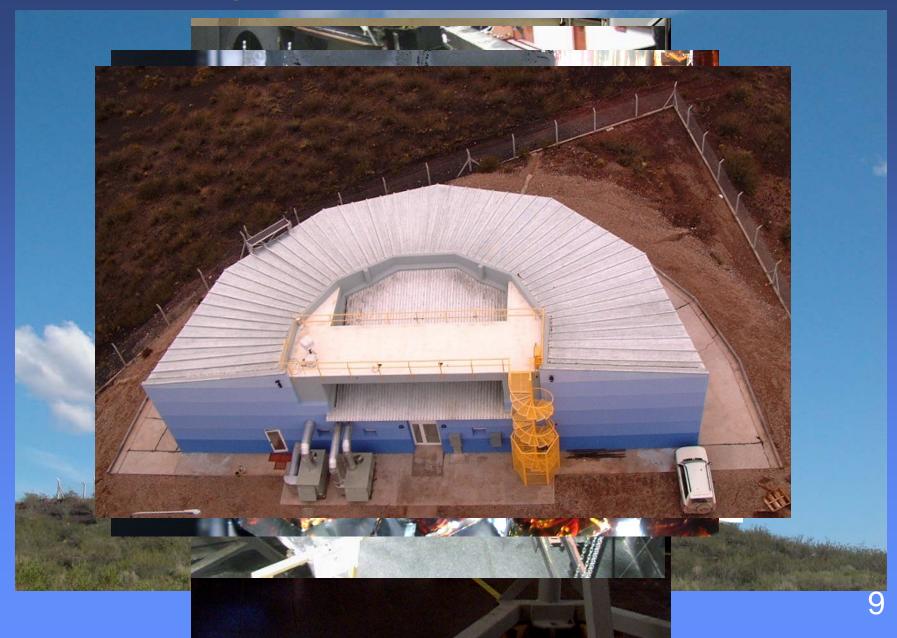
The Fluorescence Detector



The Engineering Array



Building the First Fluorescence Station





The First and Last Engineering Array Detectors



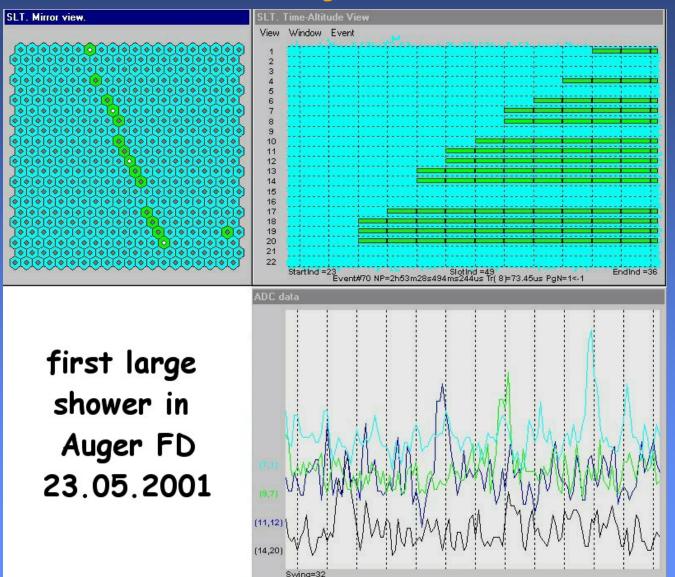
Last Engineering Array Detector 26 April 2001



Central Data Acquisition System

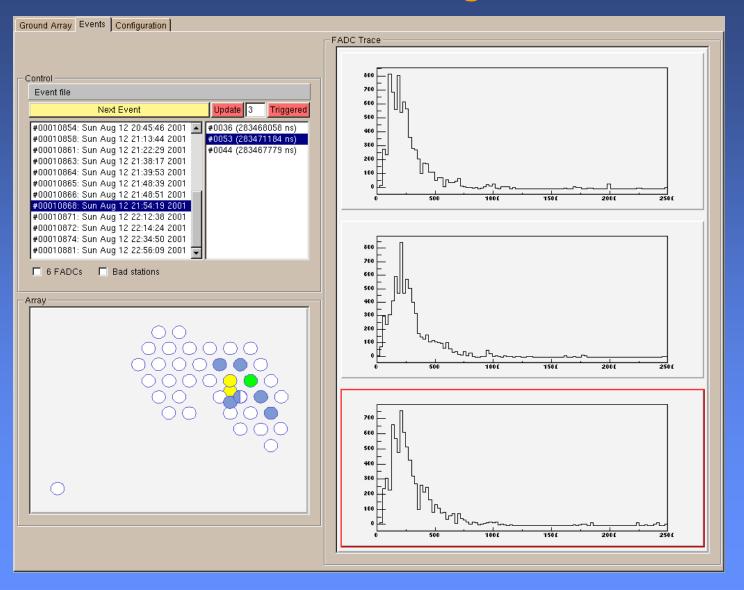


Official First Fluorescence Event 23 May 2001



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First Surface Detector 4 – fold event – 12 August 2001



Building the Observatory

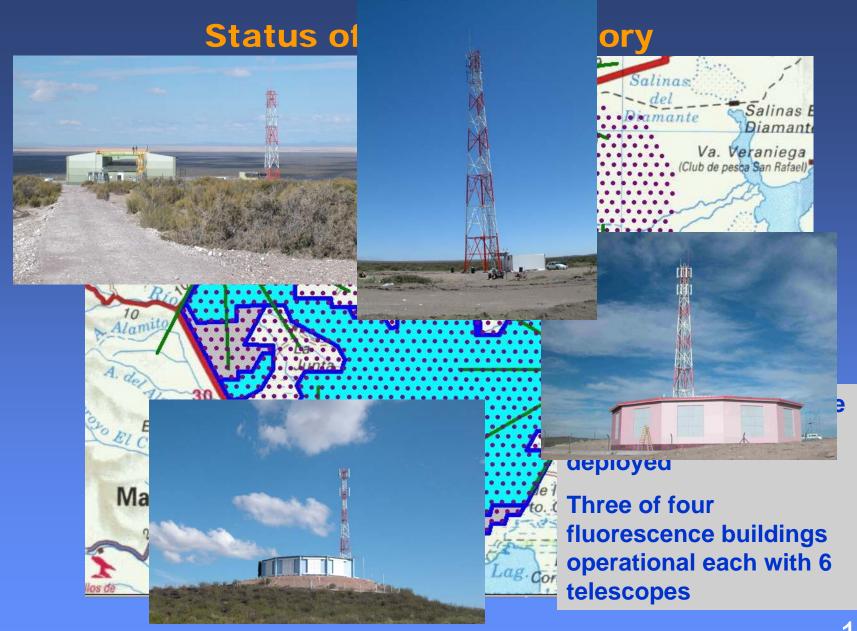


Thanks to Cristina Raschia

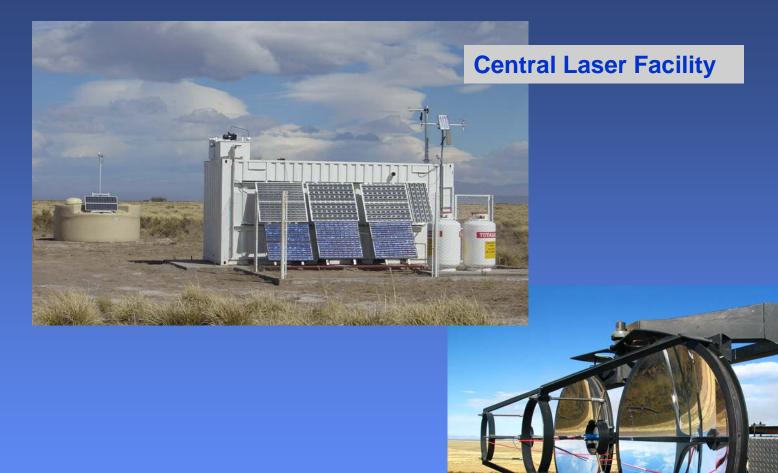
Deployment Sequence



Thanks to Cyril Lachaud

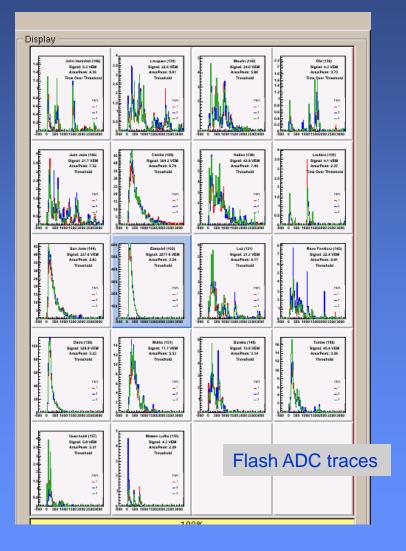


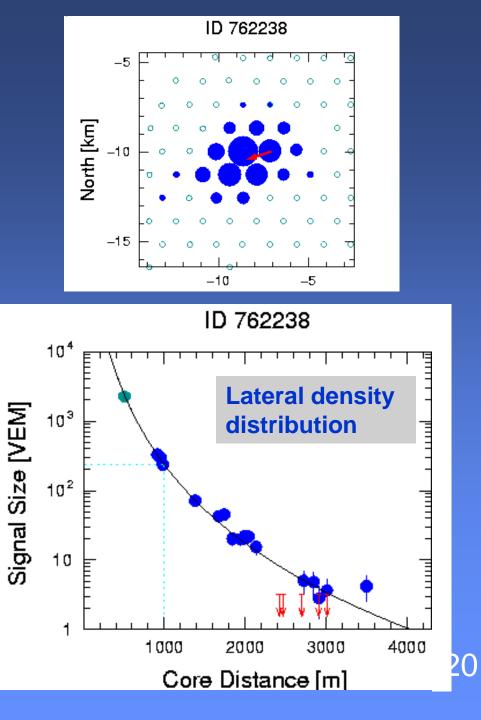
Atmospheric Monitoring and Calibration



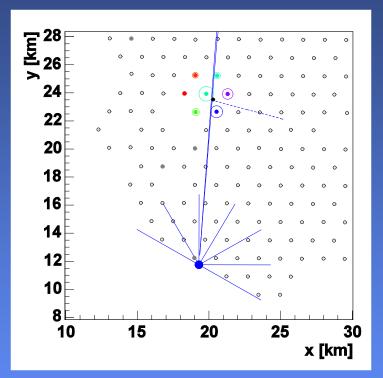
Lidar at each fluorescence eye

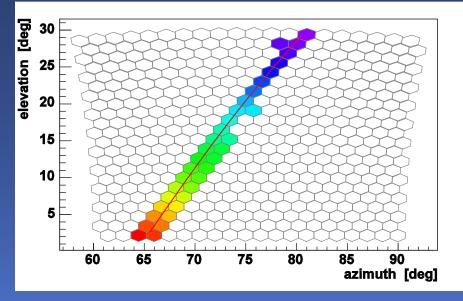
Example Surface Array Event **0**~ 48°, ~ 70 EeV

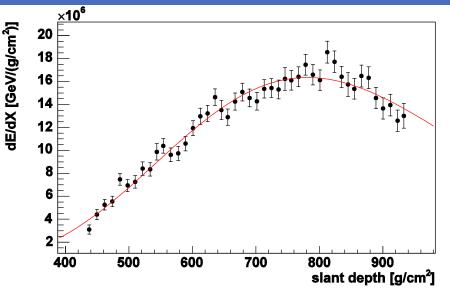




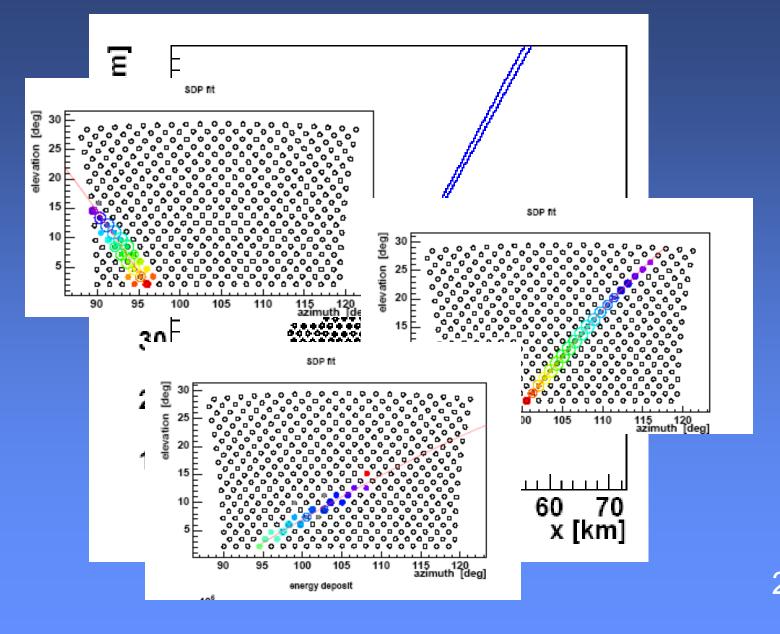
Example Hybrid Event • 30°, ~ 8 EeV







A Tri-ocular Event! ~20EeV



Malargüe

