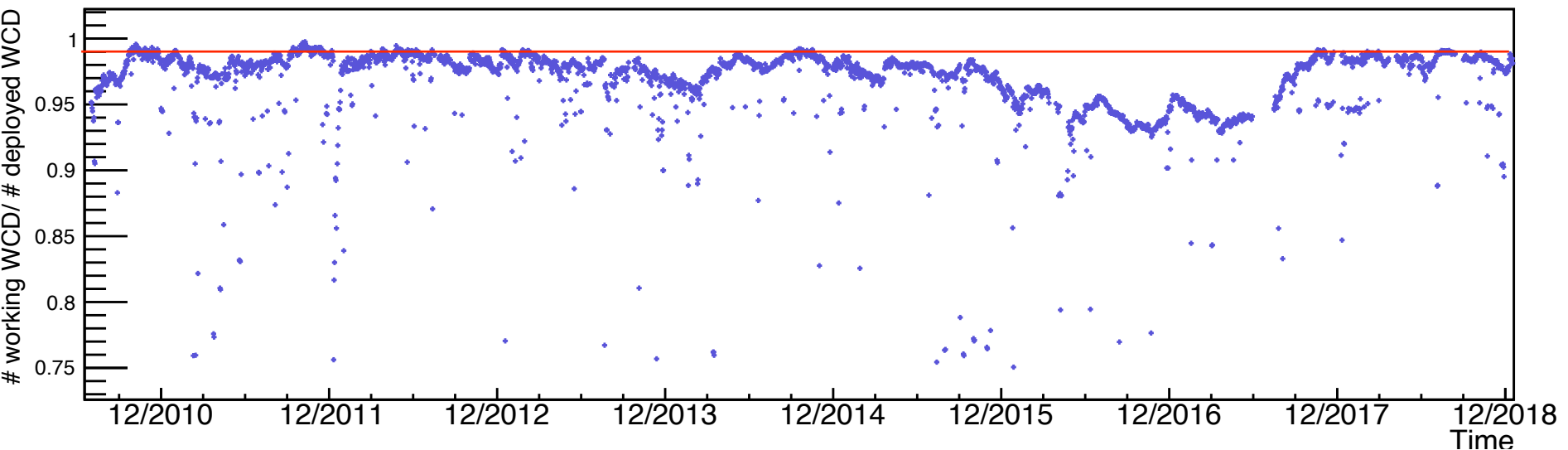


SD efficiency / bad periods

► SD efficiency

- Provided online using monitoring (SD/metrics)
 - mean values computed per day number of active WCD w.r.t number of deployed WCD
- From 08/2010 up to now
 - Each day : UTC seconds (at noon)
number of active WCDs/number of WCDs



Bad periods

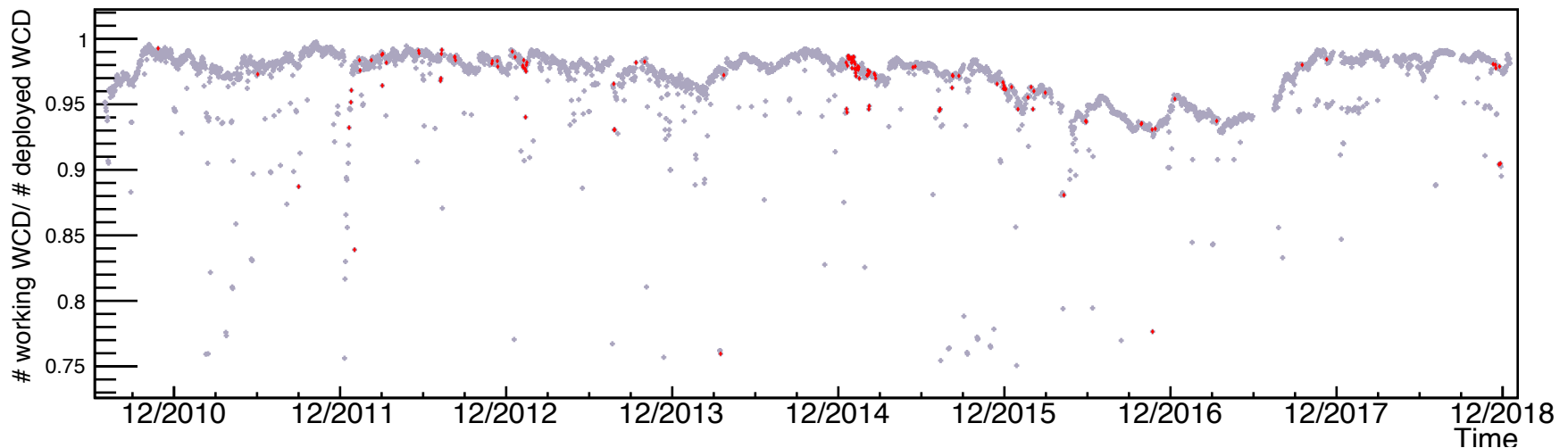
➤ List of bad periods

- Data file from <http://ipnwww.in2p3.fr/~augers/AugerProtected/AcceptBadPeriods.php>
 - (bad period files to be used for the calculation of a flux with Auger events)

➤ Efficiency with bad periods marked

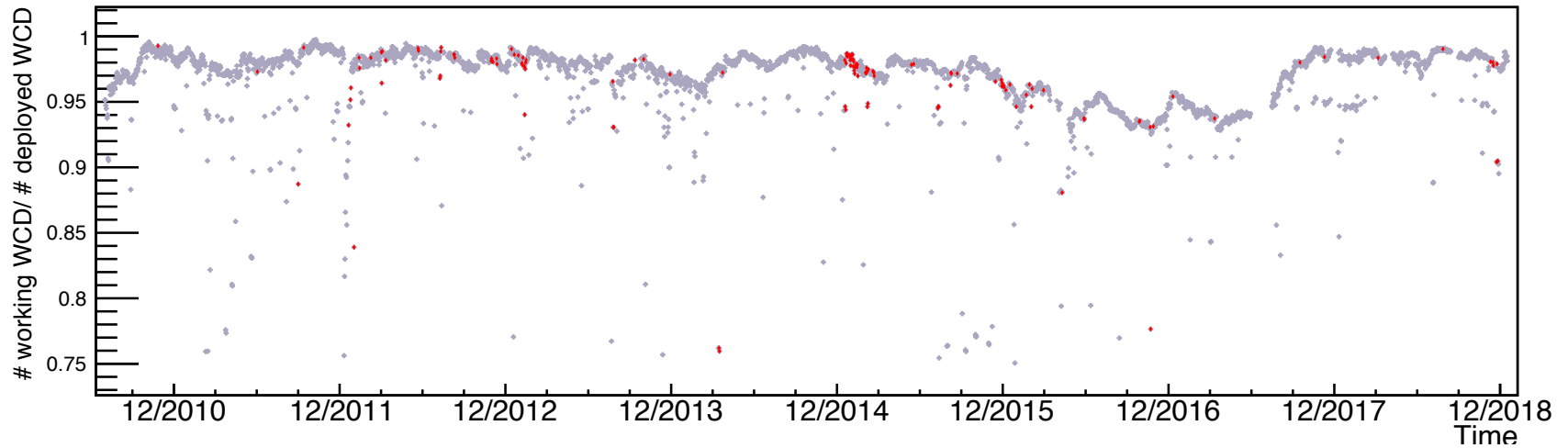
- Compare UTC timestamp. If more than $x\%$ of a day within bad period = Day marked

More than 45% of the day in a bad period

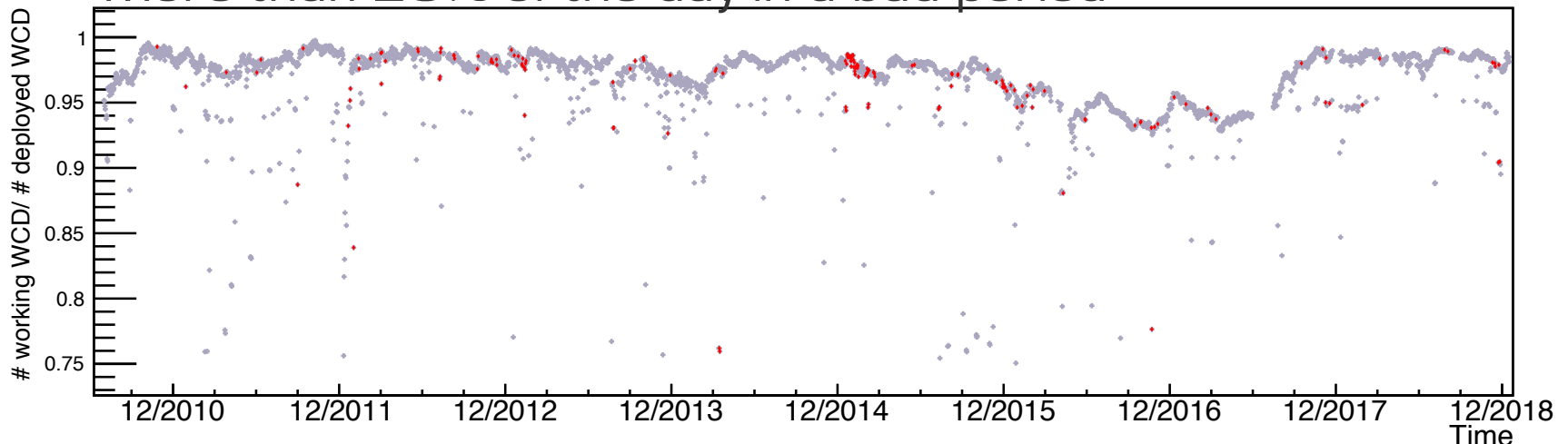


Eff. with Bad periods

More than 35% of the day in a bad period



More than 25% of the day in a bad period



Comments on bad period file

- TStart / Tstop defined by 8 numbers
 - seconds UTC time (since 1/1/1970):
 - seconds GPS Time
 - day, month, year, hour, min, sec
- GPSTime is ahead of UTCTime by leap seconds (counting from date of GPS second =0)
- @ GPS second = 0 (6/01/1980,0h) , UTC = 315964800 s = Δ_0
- GPS second = UTC second - Δ_0 + Leap
 - OK up to mid 2015, then new leap second(s) is/are missing