



# Comp@P1, AMOD, and ADCoS Shifts Status Report

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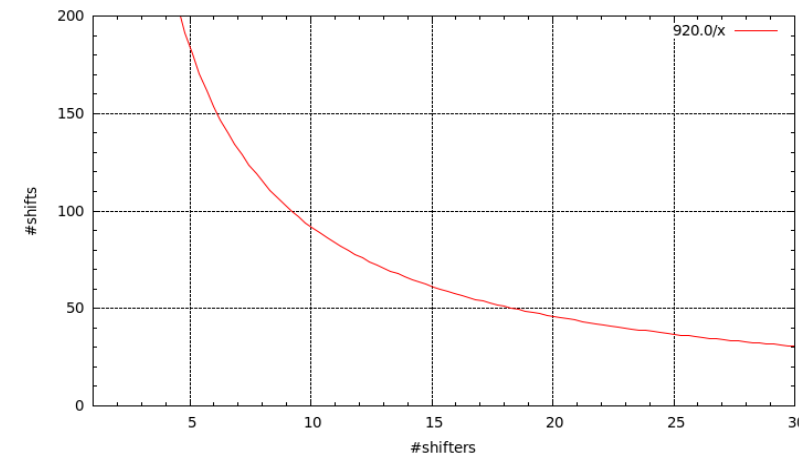
Institute of Physics, AS CR, Prague

On behalf of Guido Negri, Jaroslava Schovancová, and Jae Yu

S&C workshop, 2010-11-29

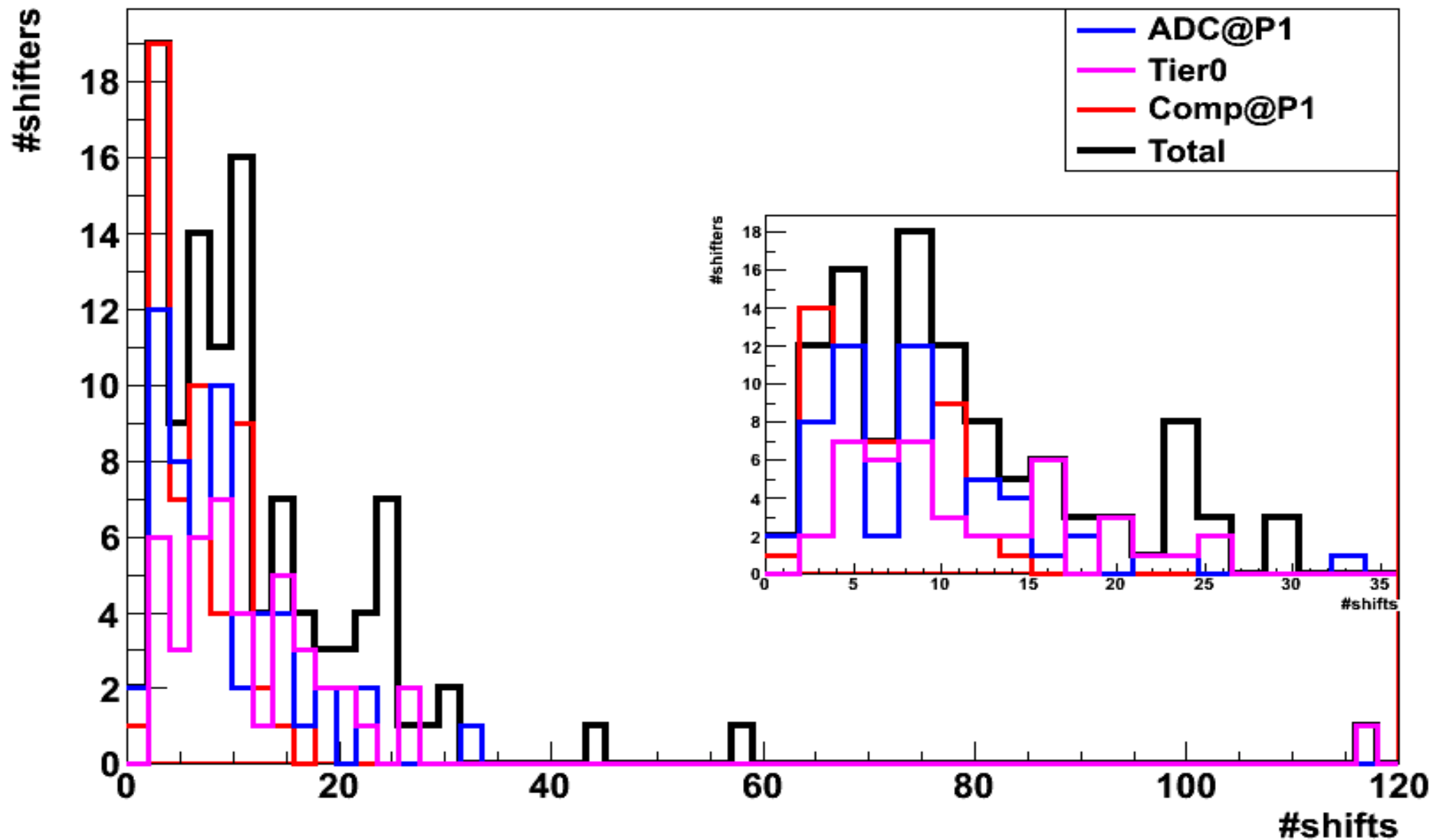
# Comp@P1 Merger finished

- Comp@P1 merged from ADC@P1 and Tier0 Shifts
  - Thanks to Alessandro Di Girolamo, Guido Negri and Jae Yu for the work done during the merging process
  - Workstation with the new atlcomp1 account set up
- Comp@P1 is a Class 1 Shift with 3 shift slots per day
  - ATLAS Class 1 Shift Credit scaling applies, 3/4-days blocks
- 203 Comp@P1 Shifters on the list (OTP task '529410 Comp@P1 Shifts')
  - 54 Comp@P1 Shifters took shift Aug-Dec 2010
  - 53 ADC@P1 and 42 Tier0 Shifters took shift Jan-Aug 2010
- We will need ca **920 Shift slots to cover in 2011** (Feb - Dec 2011): **40-100 Shifters**



# Comp@P1 shift coverage in 2010

Number of Point1 shifts per shifter in 2010



# Comp@P1 Responsibilities


- TWiki: [CompAtP1Shift](#)
- Comp@P1 Responsibilities: Monitor following activities
  - merge, reconstruction and transport of all raw and processed data at Tier-0
  - functionality and integrity of ATLAS IT services at CERN
  - export of collision data (raw and processed) from Tier-0 at CERN to Tier-1s.
  - export of muon calibration data from Tier-0 to the calibration centers at selected Tier-2s
- ATLAS Shift TODO list used to remind shifters of their duties  
(see next slide)

# Comp@P1 Timetable

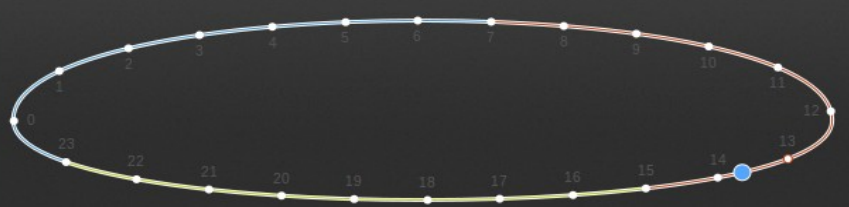
<https://atlas-shifter-todo.web.cern.ch/atlas-shifter-todo/CompP1/>

Web application Author: Morten Dam Joergensen

## Comp@P1 Shifter Tasks



Timeline



LINKS

- Comp @ P1 Twiki
- Shift schedule

7th hour

TASK 1

Check the ATLAS DDM Dashboard (T0 Export + Functional Tests)

TASK 2

Monitoring the Atlas Central Services

Use the screens in the control room or follow the links below.

Task links: [\[1\]](#) [\[2\]](#) [\[3\]](#)

More info: [twiki](#)

Completed

TASK 3

Real Data Exports Monitoring Plots

TASK 4

conTZole Task Lister

TASK 5

conTZole Overview Monitor

TASK 6

Database monitoring page and PVSS2COOL

# Comp@P1 Shift booking in 2011

- **Booking period** for 1<sup>st</sup> half of 2011 will be opened on **1<sup>st</sup> December 2010**
  - OTP tasks:
    - '529410 Comp@P1 Shifts'
    - '529105 Comp@P1 Shadow Shifts'
- Reduced shift will start on 1<sup>st</sup> February 2011
  - 1 shift per day
- Full shift coverage will start 14<sup>th</sup> February 2011
  - LHC re-start announced on 14<sup>th</sup> February 2011
  - 3 shifts per day

# Comp@P1 Training events in 2011

- Ca 1 Training event per month in 2011
  - First planned during Physics & Performance week  
31<sup>st</sup> Jan – 4<sup>th</sup> Feb 2011
    - Aim: attract people from physics communities
- Training events will be ca 90 minutes long sessions
- Sign-up list: **[atlas-comp-p1-coordinators@cern.ch](mailto:atlas-comp-p1-coordinators@cern.ch)**
  - Or email to Comp@P1 coordinators:  
Guido Negri, Jaroslava Schovancová, Jae Yu

# Comp@P1 Operational remarks

- Sufficient monitoring tools for current responsibilities
- Great shift coverage **THANK YOU!**

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Aug 10	7-15 Day Shift	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	15-23 Evening Shift	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	23-7 Night Shift																															
Sep 10	7-15 Day Shift	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	15-23 Evening Shift	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	23-7 Night Shift	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
Oct 10	7-15 Day Shift	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	15-23 Evening Shift	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	23-7 Night Shift	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
Nov 10	7-15 Day Shift	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	15-23 Evening Shift	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	23-7 Night Shift	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
Dec 10	7-15 Day Shift	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
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	23-7 Night Shift	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		

- We plan to **relocate Comp@P1 Shifter** from the ATLAS World-Wide Computing Centre **to the main ATLAS Control Room**
  - + Comp@P1 will be at the source of ATLAS detector operations
    - Access to ACR will be required



# AMOD

- ATLAS Distributed Computing Manager on Duty
- Class 1 shift, 7-days blocks, 7 credits in OTP
- Currently 18 AMODs
  - Recruited from ADC experts
  - 4-6 shift blocks per year, **10-20 AMODs**
- Full-year coverage (!)

**THANK YOU!**

# ADCoS

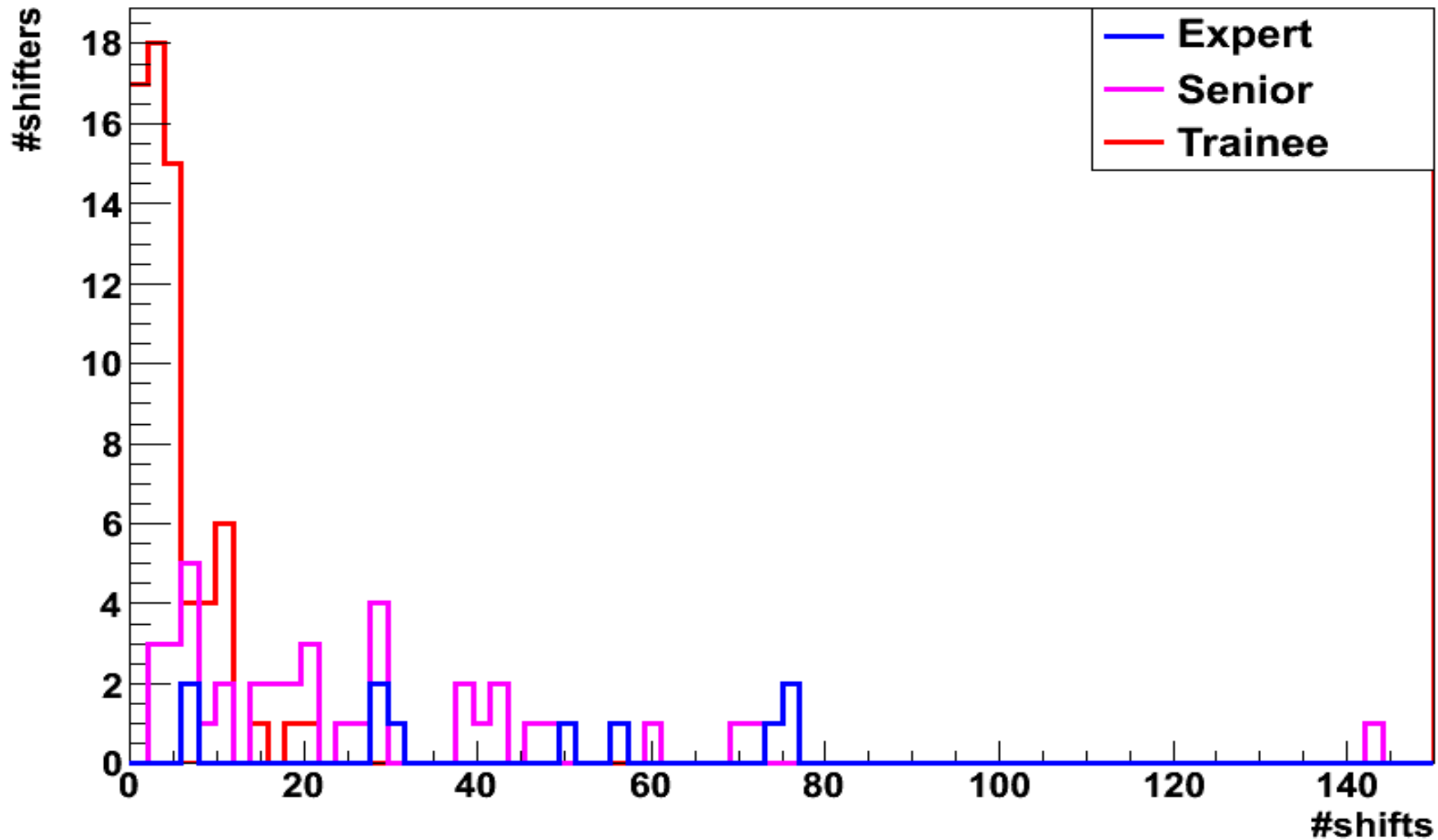
- ATLAS Distributed Computing Operations Shifts
- Class 2 shift, 3 Senior shift slots per day
  - Shift taken from “Home institute”
  - ADCoS Senior: 2-days blocks + Sundays, OTP 529222
  - ADCoS Trainee: 2-days blocks, no Sundays, OTP 529223
  - ADCoS Expert: 7-days blocks, OTP 529221
- ADCoS timezones:
  - AP: 0-8 CERN time, Shift Captain Hiroshi Sakamoto
  - EU: 8-16 CERN time, Shift Captain Jaroslava Schovancová
  - US: 16-24 CERN time, Shift Captain Yuri Smirnov

# ADCoS Manpower

- ADCoS is a full-year-covered shift
- Shift coverage in 2011
  - **1095 ADCoS Senior Shift slots** in 2011
  - **365 ADCoS Expert Shift slots** in 2011
  - Up to **939 ADCoS Trainee Shift slots** in 2011
- Lack of Senior shifters in AP and US timezones
  - **Encouraged inter-timezones help among Shifters**
- We need ca **15 Senior Shifters per timezone who take 25 shifts per year**
  - EU timezone has ca 20 Senior Shifters
    - Upper limit: 4 Senior shifts per Shifter per month
  - AP and US timezone have ca 10 Senior Shifters each

# ADCoS shift coverage in 2010

Number of ADCoS shifts per shifter in 2010



# ADCoS Shift booking in 2011

- **Booking period** for January and February 2011 will be opened on **1<sup>st</sup> December 2010**
  - EU Senior Shift slots will be pre-booked, Shifters can swap their shift slots mutually when both agree
  - OTP tasks:
    - '529222 ADCoS Senior shifts'
    - '529223 ADCoS Trainee shifts'
    - '529221 ADCoS Expert shifts'
- Next booking period for next 2 months will be opened 1 month in advance (1<sup>st</sup> February 2011)

# ADCoS Training events in 2011

- We plan up to 2 training events per year
  - Dates not yet fixed
  - There are 2 video-recorded tutorials from 2010
    - Check out [ADCoS#Tutorials](#)
- All essential information about shift duties on [ADCoS](#) Twiki
- ADCoS Responsibilities:
  - monitor progress of DDM transfers between T1s and corresponding T2s,
  - monitor MC production,
  - monitor group production,
  - monitor reprocessing jobs,
  - report/escalate observed issues

# ADCoS Recent monitoring issues

- ProdSys dashboard: not reliable for weeks in row
  - ADCoS Shifters are asked not to rely on ProdSys dashboard and use Panda Monitor instead in the meantime
  - Status: Work in progress.
- DDM dashboard: Issues with DB execution plans
  - Status: FIXED!
- Panda Monitor: Issues with DB load
  - Short term status: FIXED!
  - Long term plans: PandaMon Team in touch with ATLAS & CERN DBAs

# ADCoS Feature requests

## Site tests

- Current test jobs need a certain level of tweaking before submission (Update job parameters, input dataset, DB release, Athena release...)
- Feature request: have something like HammerCloud automated test jobs for production queues

## Queue/cloud manipulation

- Current “curl” features OK for production queues
- Feature request: ANALY queues manipulation in whole cloud with one “curl” command

## Reprocessing and group production tasks

- Feature request: filter tasks by duration, job priorities, official production vs. group production vs. reprocessing, flag “open” when Ndone\_jobs has not changed recently



# Conclusions

- Reliable monitoring tools are essential!
- We need active shifters with up-to-date knowledge of procedures
- Booking periods will open on 1<sup>st</sup> December 2010
- **Many thanks** to all ATLAS Distributed Computing Shifters for their hard work during 2010!