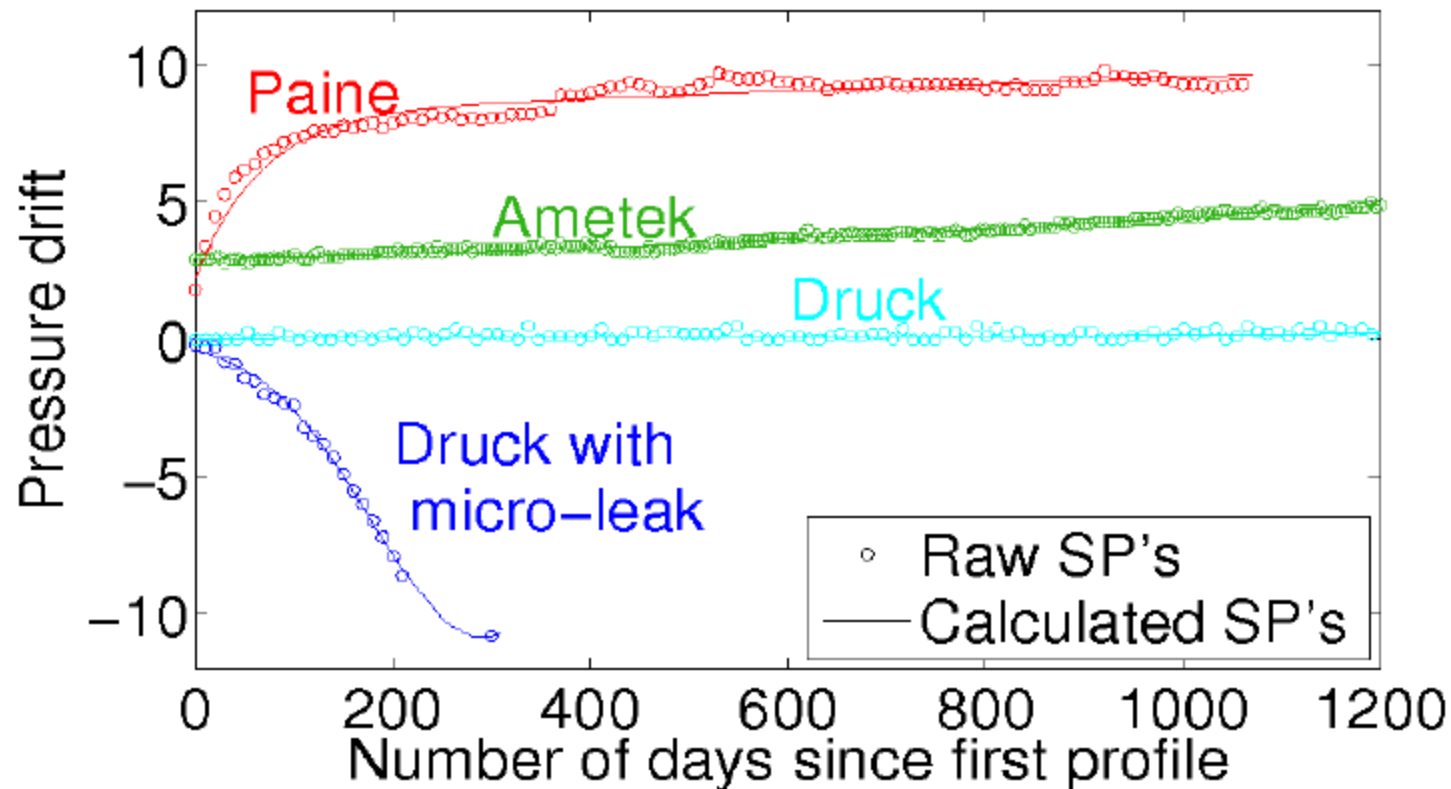


Pressure Biases in Argo: progress

Examples of pressure drift



Jeff Dunn's Pressure Audit

Most Recent - 4/3/2012



Argo Surface Pressure compliance Audit - plots

Note: Surface pressure plots are provide only where the basic float type is discernable from meta and tech files, and the firmware surface pressure adjustment for that float type is known (to the CSIRO programmer.)

All floats

Plots	AOML	BODC	CORIOLIS	CSIRO	NMDIS	JMA	MEDS	CSIO	INCOIS	KMA	KORDI
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Floats with possible disagreement in SP correction

Plots	AOML	BODC	CORIOLIS	CSIRO	NMDIS	JMA	MEDS	CSIO	INCOIS	KMA	KORDI
-											
Summary pages	AOML	BODC	CORIOLIS	CSIRO	NMDIS	JMA	MEDS	CSIO	INCOIS	KMA	KORDI

Floats with possible TNPD

Plots	AOML	BODC	CORIOLIS	CSIRO	NMDIS	JMA	MEDS	CSIO	INCOIS	KMA	KORDI
-											
Listings	AOML	BODC	CORIOLIS	CSIRO	NMDIS	JMA	MEDS	CSIO	INCOIS	KMA	KORDI
Summary Pages	AOML	BODC	CORIOLIS	CSIRO	NMDIS	JMA	MEDS	CSIO	INCOIS	KMA	KORDI

Profile Pressure Adjustment

Surface Pressure Correction assessment

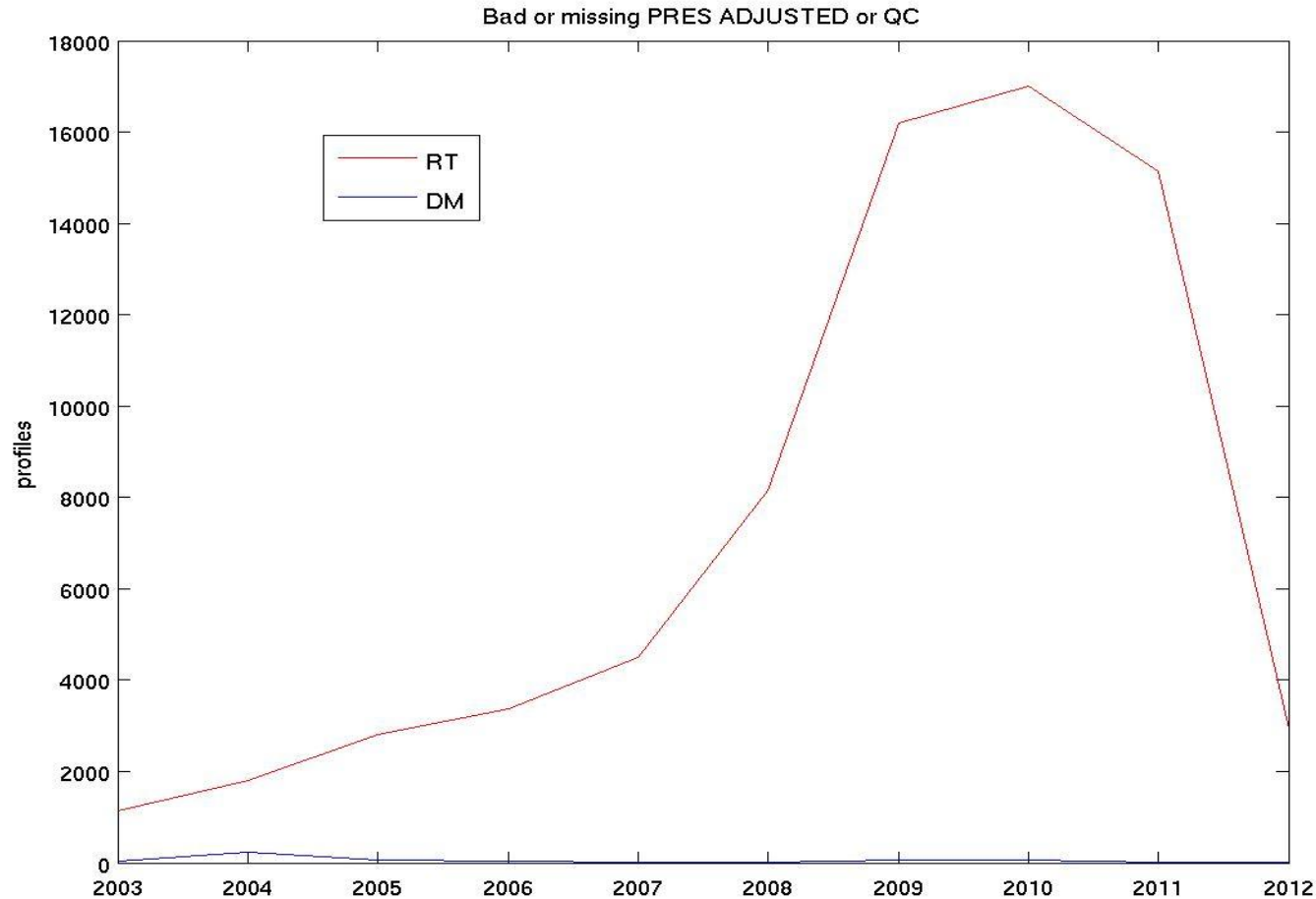
	AOML	BODC	CORIORIS	CSIRO	NMDIS	JMA	MEDS	CSIO	INCOIS	KMA	KORDI	Total all DACs
RT profiles, good	29810	1998	16844	22455	0	32468	10144	0	7968	4144	0	125831
RT profiles, bad?	99	5	65	14	0	16	43	0	197	2	0	441
DM profiles, good	308328	28368	79634	31232	0	71669	17224	5272	19041	8432	0	569200
DM profiles, bad?	41	0	273	0	0	105	3869	290	421	1376	0	6375
Ok method 2	3716	0	0	0	0	0	0	0	0	0	0	3716

Missing PRES_ADJUSTED data

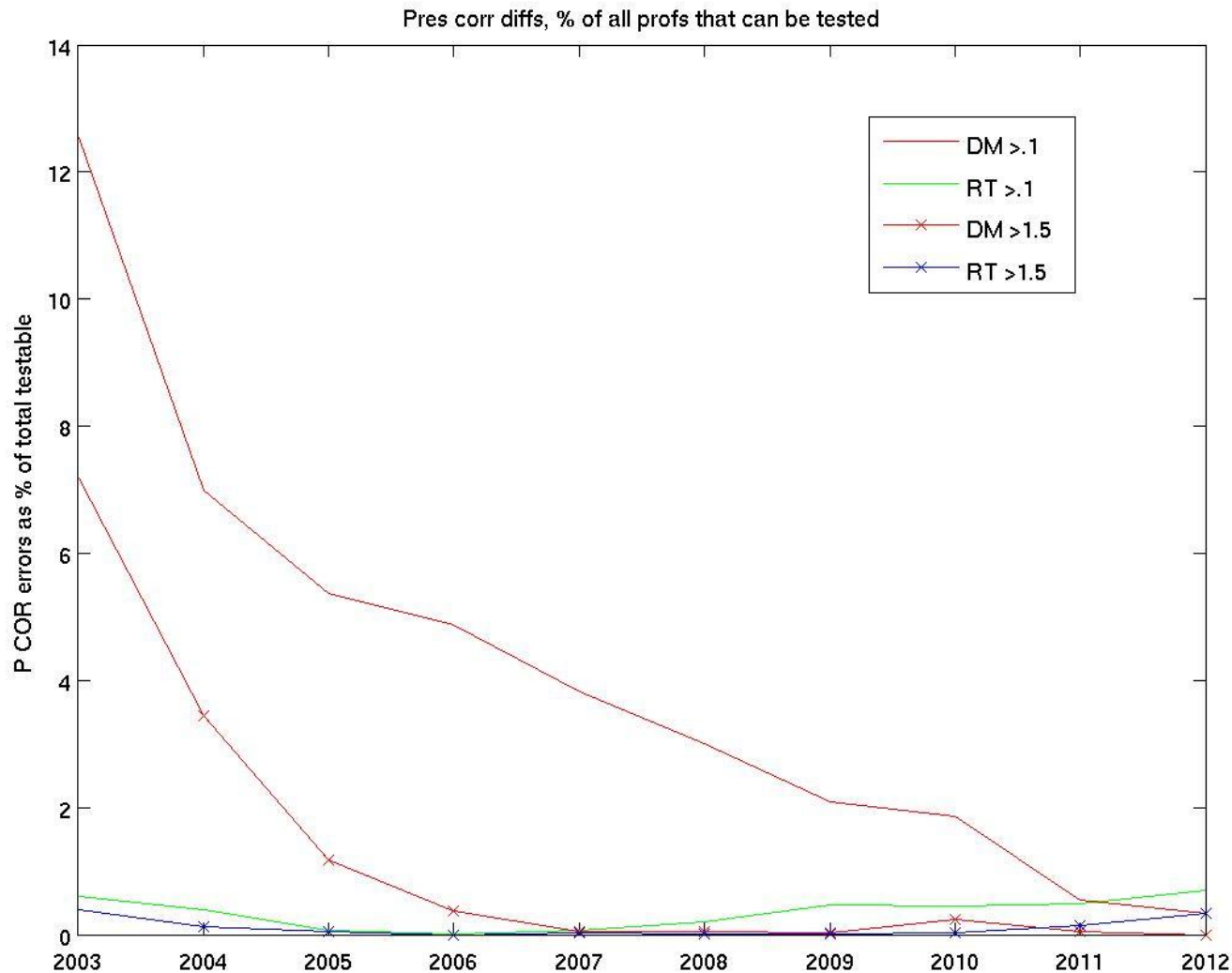
RT with values in PRES but empty PRES_ADJUSTED or bad
PRES_ADJUSTED_QC

AOML	BODC	CORIORIS	CSIRO	NMDIS	JMA	MEDS	CSIO	INCOIS	KMA	KORDI	Total all DACs
66643	1420	140	0	1	5	476	434	1	117	5077	74314

Still some DACs not filling P_ADJ properly in Real Time



Pressure correction – good agreement where testable; particularly post 2005



TNDP identification

progress is small since ADMT-12; MEDs improved;
Overall ~19,000 profiles not properly labeled

TNPD (counting in D files only)

	AOML	BODC	CORIORIS	CSIRO	NMDIS	JMA	MEDS	CSIO	INCOIS	KMA	KORDI	Total all DACs
Perfect COMMENTS	33305	9620	4927	4600	0	6959	2168	1942	5837	0	0	69358
Imperfect COMMENTS	0	0	0	0	0	0	2138	0	0	1741	0	3879
COMMENTS absent	4844	940	631	230	0	9893	930	68	928	518	0	18982

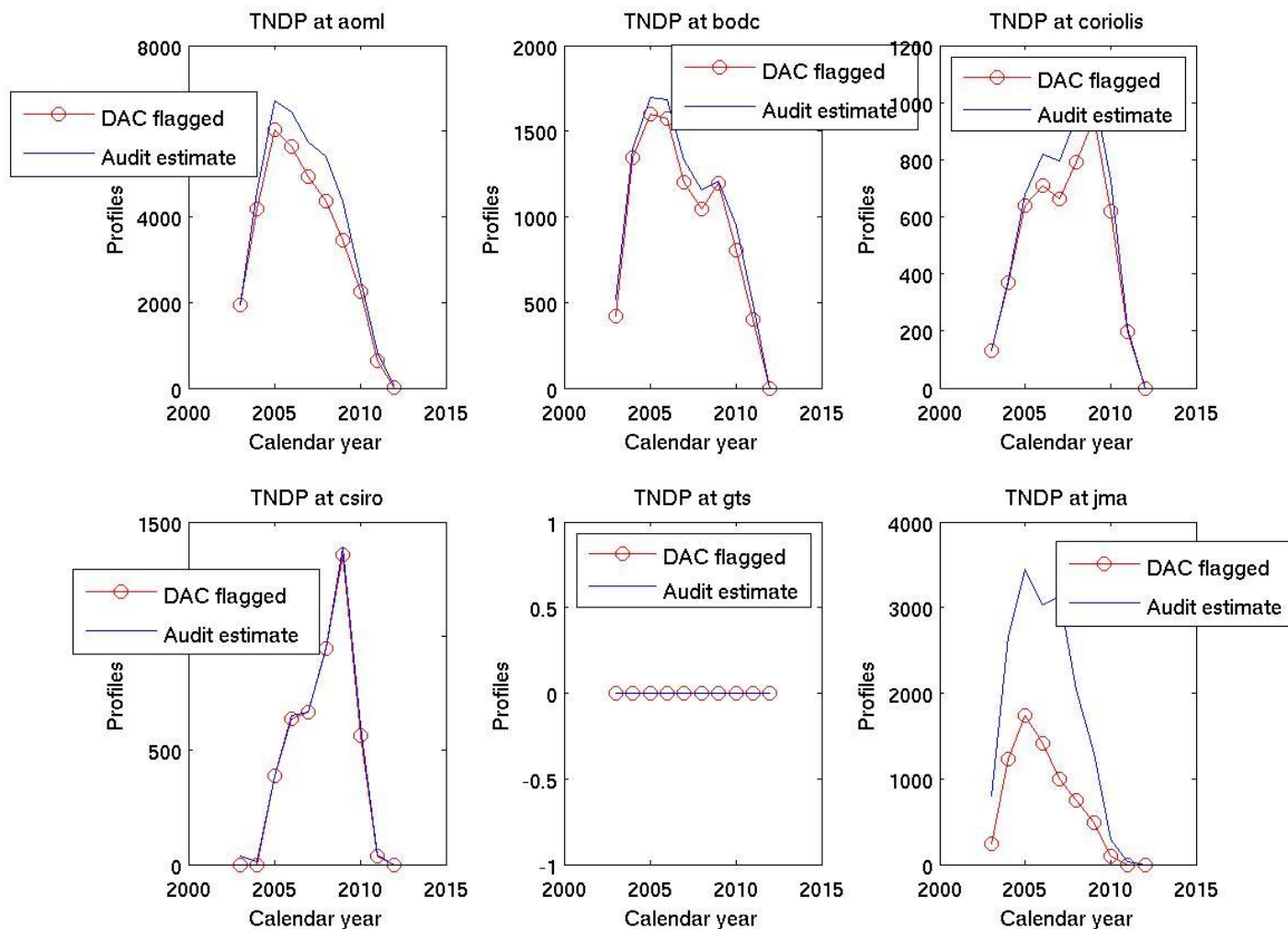
11/2011

TNPD (counting in D files only)

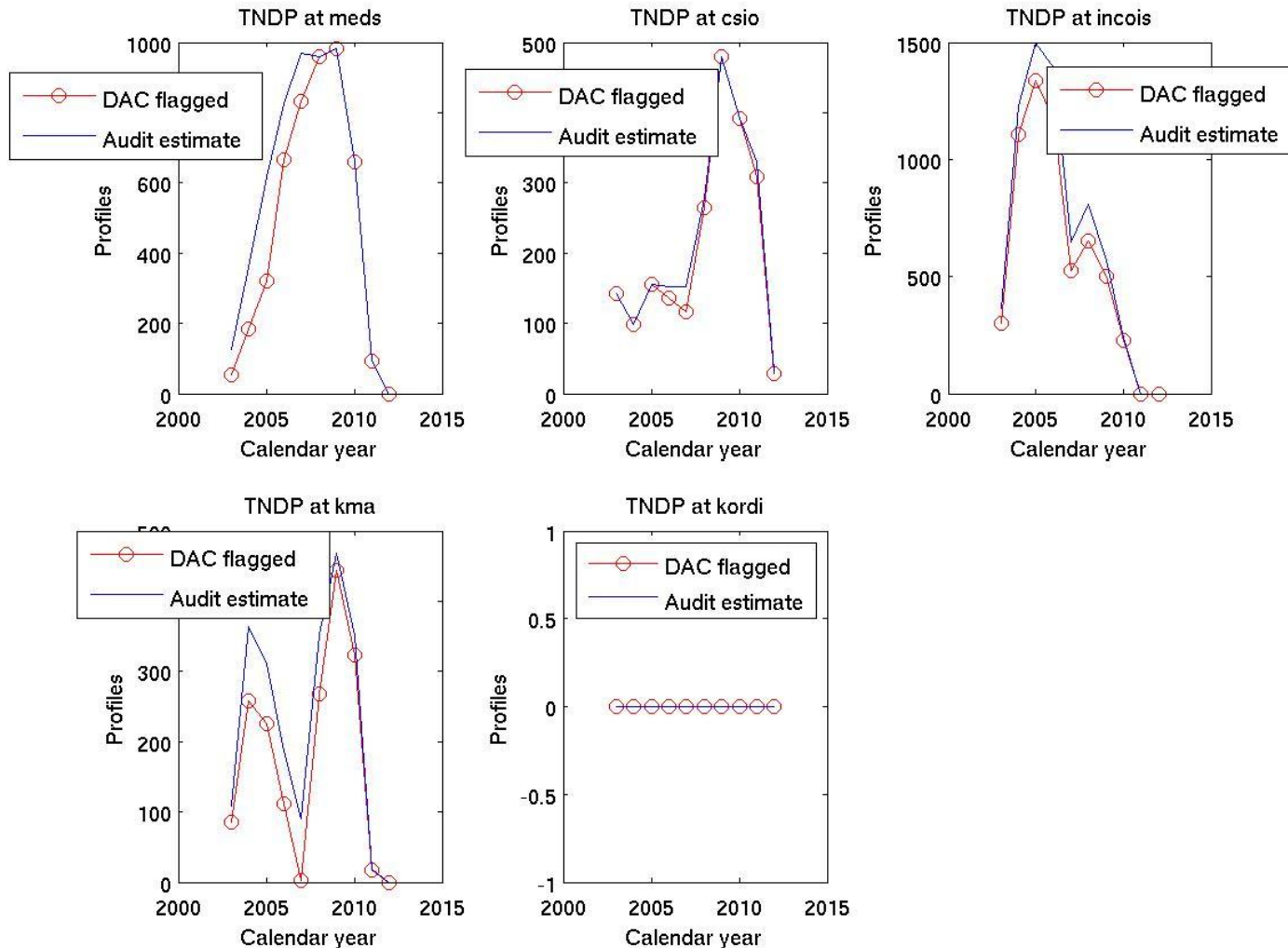
	AOML	BODC	CORIORIS	CSIRO	NMDIS	JMA	MEDS	CSIO	INCOIS	KMA	KORDI	Total all DACs
Perfect COMMENTS	33906	9620	5167	4600	0	6959	3037	2121	5837	0	0	71247
Imperfect COMMENTS	0	0	0	0	0	0	1714	0	0	1741	0	3455
COMMENTS absent	5165	923	644	230	0	9802	875	91	928	518	0	19176

03/2012

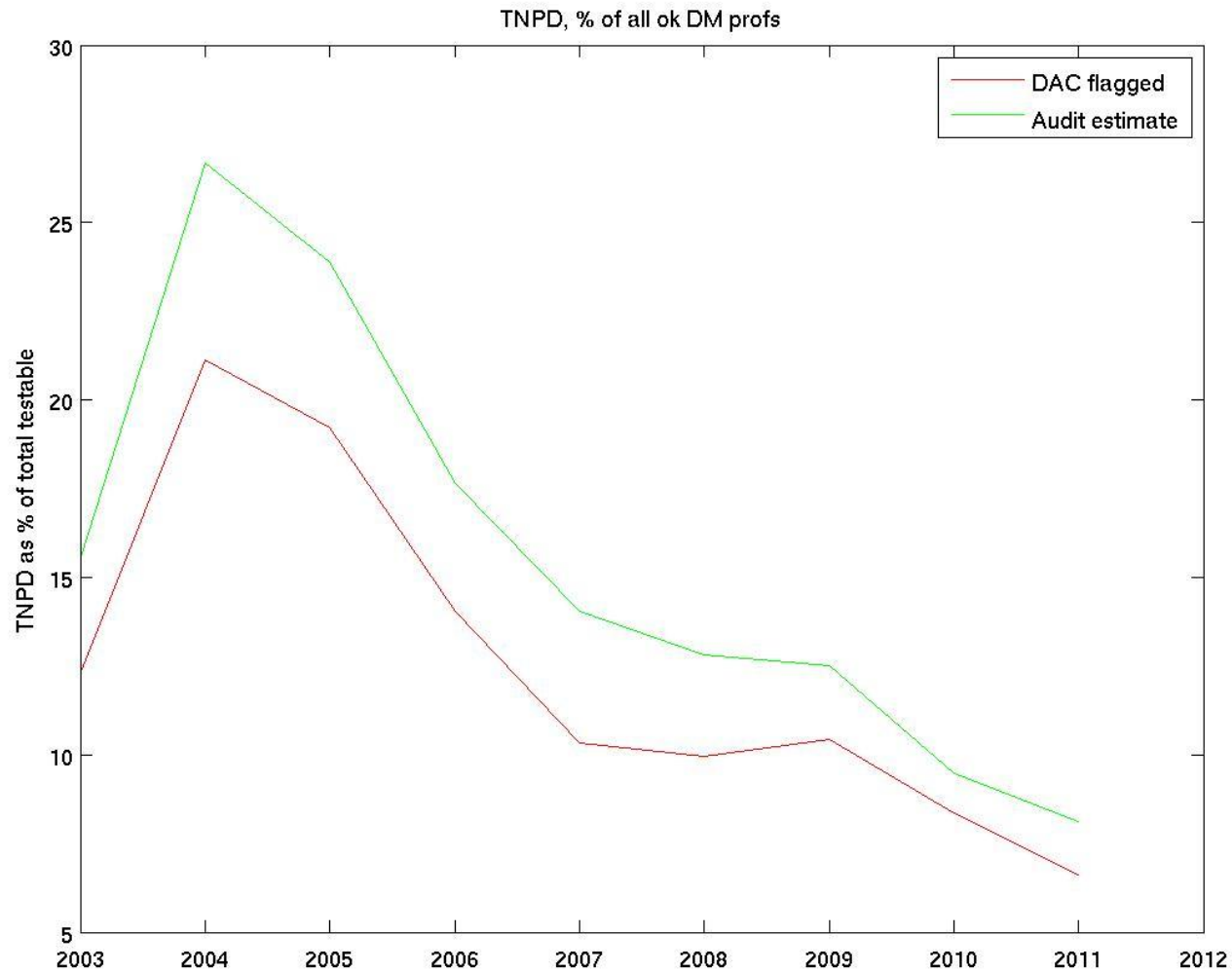
Audit finds more TNDP than most DACs; some still need to correct profiles



Audit finds more than most DACs; some still need to correct profiles



TNDP affected profiles overall



Summary

The largest pressure correction disagreements have been mostly resolved (highlighted by comparing the audits run last year). Congratulations to the DACs for their hard work.

Still a substantial number of floats for which the audit cannot assess a pressure offset – these need to be investigated and fixed.

TNDP identification and treatment is much improved. A few DACs need to focus on finishing this job.