

ZTF release paper

ZTF Ic release : status

- PSF error rate problem is solved

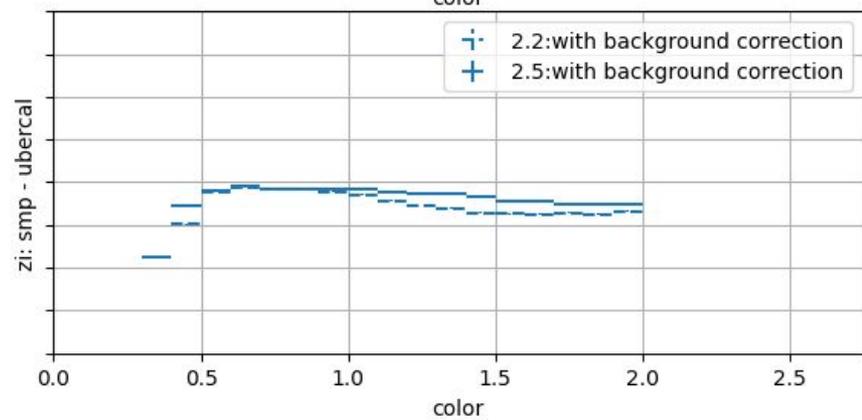
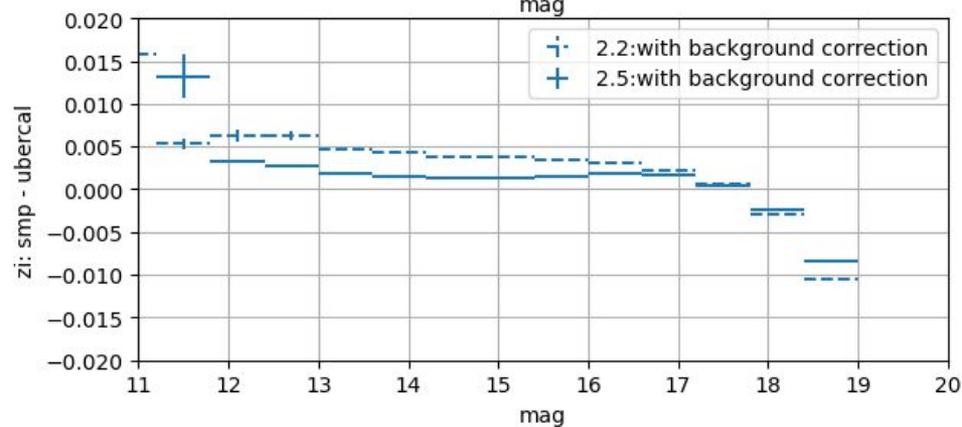
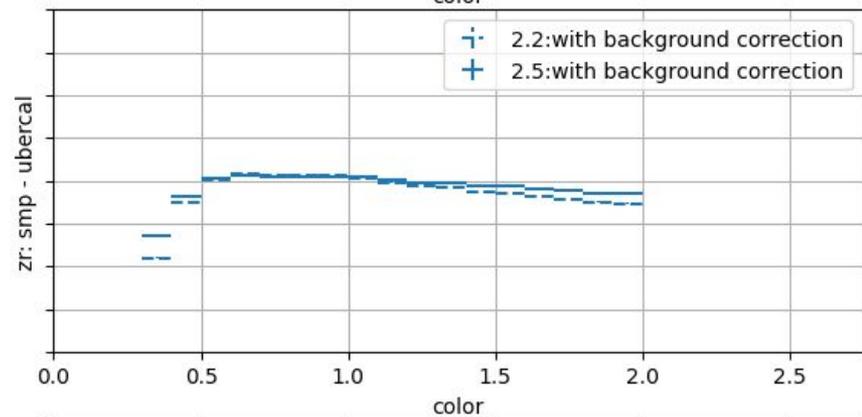
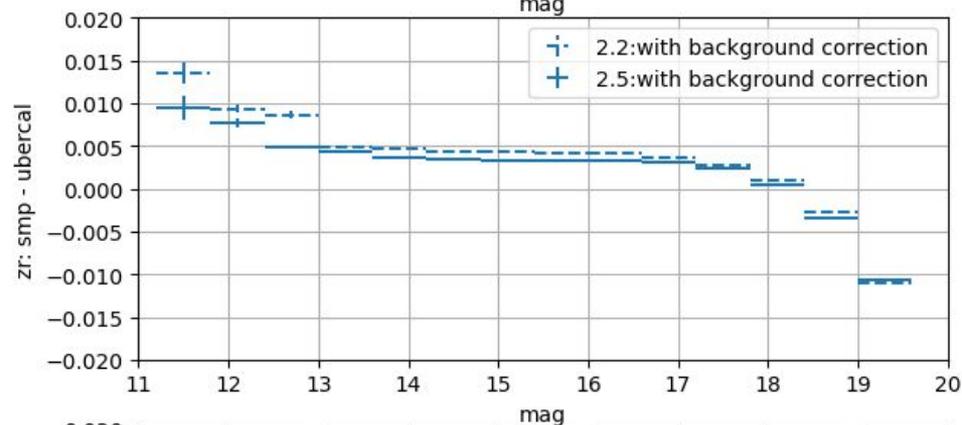
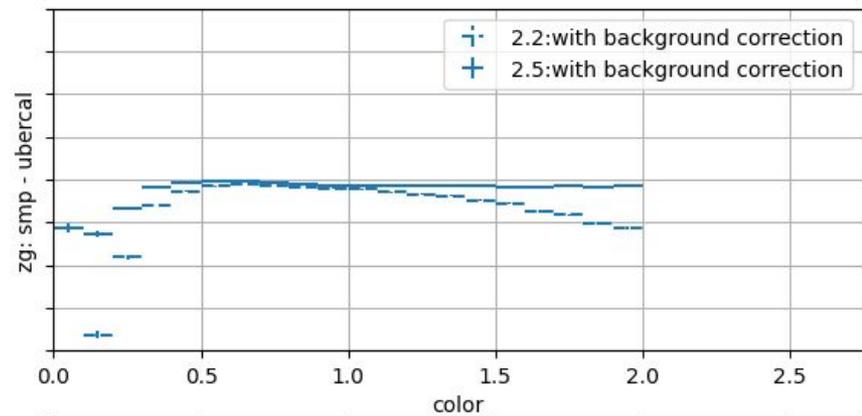
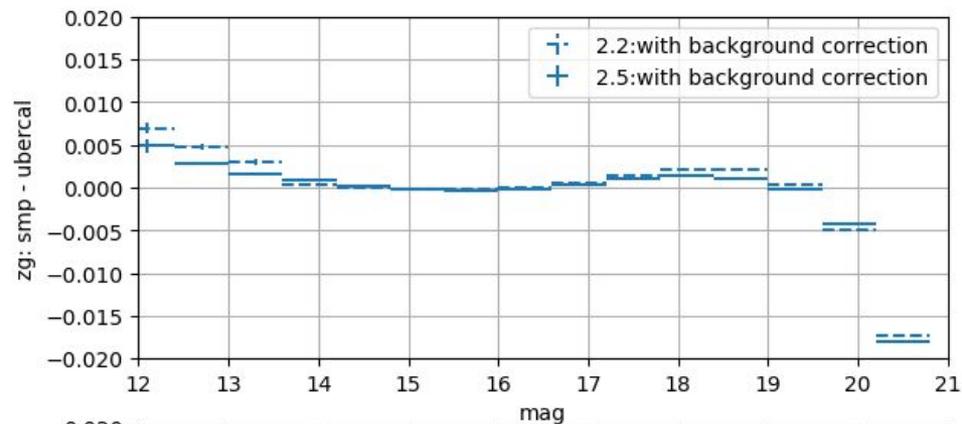
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shape: (6, 4)
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band	status	count	percent
---	---	---	---
str	str	u32	f64
zg	success	53897	98.676309
zg	failure	723	1.323691
zr	success	68539	98.469916
zr	failure	1065	1.530084
zi	failure	275	2.551967
zi	success	10501	97.448033

- Cosmic detection with undersampled PSF was going nuts
 - -> weight maps were full of vetoed pixels
- Cosmic was shut off in Leander's prod
- Improperly shut off in Mathieu's pipeline

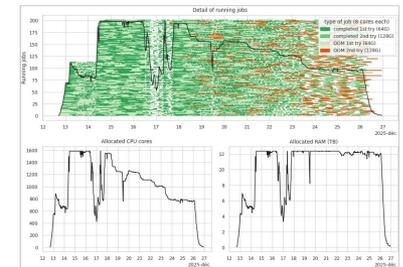
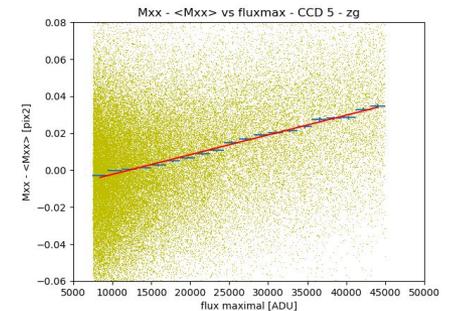
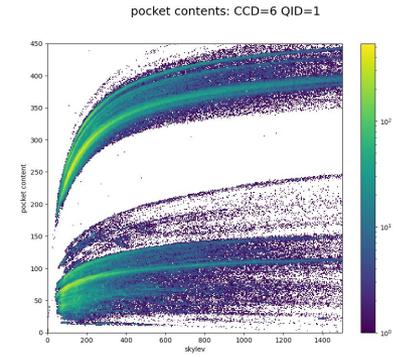
ZTF Ic release : status

- Full prod restarted
 - New PSF model (2nd order variations)
 - No Pocket / BF corrections (yet)
 - Should be much faster
 - low memory footprint => more jobs & fewer OOM's
- What's left
 - Test image-level pocket effect correction (not started)
 - Re-evaluate impact of BF effect (done on previous prod, should be redone with the new PSF)
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Paper outline

- Intro
- Instrument / Dataset
- Mitigation of sensor effects
 - BF
 - Pocket
- Photometry pipeline
- Pipeline Implementation & performances
- Light curve calibration
- Data release products
- Comparison with previous photometry releases
 - Previous processing > DR2.2
 - DR2.2
 - DR2
 - ATLAS
- Discussion
 - Typical uncertainties on distances



What should be done / discussed

- Main ongoing work :
 - sensor effects
 - Distance uncertainties
- Not staffed
 - Comparisons with previous processings
 - Environment studies