





## Validation of code

























### Contacts responsible for validation of each AlCaReco:

Contact person	ALCARECO(s) validated	Link to
Justyna Tomaszewska	ALCARECOTkAl*	/afs/cern.ch/cms/CAF/CMSALCA/ALCA_TRACKERALIGN/ReIVal/
Javier Fernandez	ALCARECOMuAl*	/afs/cern.ch/cms/CAF/CMSALCA/ALCA_MUONALIGN/ReIVal/
Stefano Argiro	ALCARECOEcalCalPhiSymmetry	<a href="http://personalpages.to.infn.it/~usai">http://personalpages.to.infn.it/~usai</a>
Vladimir Litvine	ALCARECOEcalCalPi0Calib, ALCARECOEcalCalEtaCalib	<a href="https://twiki.cern.ch/twiki/bin/view/CMS/HLTTriggerMenuValidation">https://twiki.cern.ch/twiki/bin/view/CMS/HLTTriggerMenuValidation</a> <a href="https://twiki.cern.ch/twiki/bin/view/CMS/SWGGuideValidationTable">https://twiki.cern.ch/twiki/bin/view/CMS/SWGGuideValidationTable</a>
Andrea Massironi	ALCARECOEcalCalElectron	<a href="http://cmsdoc.cern.ch/~amassiro/AlCaRecoValidation/">http://cmsdoc.cern.ch/~amassiro/AlCaRecoValidation/</a>
Serguei Petrushanko	ALCARECOHcalCalIsoTrk	<a href="https://twiki.cern.ch/twiki/bin/view/CMS/HcalIsoTrackValidation">https://twiki.cern.ch/twiki/bin/view/CMS/HcalIsoTrackValidation</a>
Andrei Krokhotin	ALCARECOHcalCalDijets	<a href="https://twiki.cern.ch/twiki/bin/view/CMS/HcalDiJetsValidation">https://twiki.cern.ch/twiki/bin/view/CMS/HcalDiJetsValidation</a>
Gobinda Majumder	ALCARECOHcalCalHO**	<a href="http://www.tifr.res.in/~gobinda/cms/hodqm/hodqm.html">http://www.tifr.res.in/~gobinda/cms/hodqm/hodqm.html</a>
Olga Kodolova	ALCARECOHcalCalMinBias	<a href="https://twiki.cern.ch/twiki/bin/view/CMS/MinBiasForCalib">https://twiki.cern.ch/twiki/bin/view/CMS/MinBiasForCalib</a>
Ludivine Ceard	ALCARECOSiStripCalZeroBias, ALCARECOSiStripCalMinBias	/afs/cern.ch/cms/CAF/CMSALCA/ALCA_TRACKERCALIB/SiStrip/
Marcello Maggi	ALCARECORpcCalHLT	<a href="http://cmsrpc402b20/tmp/ReIValSingleMuPt10_CMSSW_3_1_0-M">http://cmsrpc402b20/tmp/ReIValSingleMuPt10_CMSSW_3_1_0-M</a>

#### Legend:

-  : Validation done, result is "Not Validated". Report the reasons below
-  : Validation done, result is "Ok, Validated"
-  : Validation still in progress or results need to be followed up before final green/red light
-  : Validation not (yet) done

## Release 31X

Release	AlCaReco						
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias	
310							
311				 (pi0/eta <a href="#">↗</a> )			
312							
313							

314	✓	✗	✓	✓	✓	-
315	✓	-	-	-	-	-
316	✓	✓	-	-	-	-

### 310 details

- The DQM for TkAl\* ALCARECOs is partially broken as of CMSSW\_3\_1\_0\_pre11. Matthias investigated and observed that none of the histograms that should be created by DQM/TrackingMonitor are filled. This is (as it seems from the cvs comments) due to a rewriting going on in their DQM.
- MuAl\* content is OK, but the DQM is not present. Same problem as TkAl\* ALCARECO since it uses DQM/TrackingMonitor too.
- Number of valid HO tower is low in moving wheels.

### 311 details

- The DQM for TkAl\* ALCARECOs is partially broken. The same problem as of CMSSW\_3\_1\_0.
- Number of valid HO tower is low in moving wheels (could not recover since 3\_1\_0\_pre10).

### 313 details

- MuAl\* content is OK, but the DQM is not present. It looks like the tag V01-01-04 in Alignment/CommonAlignmentProducer/python/ALCARECOMuAl\* did not get into the 31X series but it did in the 32X and 33X ones.

## Release 32X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
320	✓	-	✓	✓	✓	-
321	✓	-	✓	✓	✓	-
322	✓	-	✓	✓	✓	-
323	✓	-	✓	✓	✓	-
324	✓	-	✓	✓	✓	-
325	✓	-	✓	✓	✓	-
326	✓	✓	✓	✓	✓	-
327	✓	✓	✓	✓	✓	-
328	✓	✓	✓	✓	✓	-

### 32X details

- Number of valid HO tower is low in moving wheels (could not recover since 3\_1\_0\_pre10)
- Could not trace the reason 10% reduction. This is continuing, but are not marked them as bad.

## Release 33X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
330pre1	✓	✓	✓	✓	✓	-
330pre2	✓	✓	✓	✓	✗	-
330pre3	✓	✓	✓	✓	✓	-
330pre4	✓	✓	✓	✓	✗	-
330pre5	✓	✓	✓	✓	✓	-
330pre6	✓	-	✓	✓	✓	-
330	✓	-	✓	✓	✓	✓
331	✓	✓	-	✓	-	✓
332	✓	-	-	✓	-	-
333	✓	-	-	✓	✓	-
334	✓	-	-	✓	-	-
335	✓	-	-	✓	✓	-
336	✓	✓	-	✓	✓	-

### 33X details

- 330pre4: No valid signal in HO towers
- 330pre5: Valid HO signals in W->munu sample only, NOT in Z->mumu
- 330pre5: EcalCalElectrons: differences seen understood. They are due to a change in the gsfElectron behaviour in respect to tracker-driven electrons. Plots using only ecal driven ones are fine.

## Release 34X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
340pre1	✓	✓	✓	✓	✓	-
340pre2	✓	-	✓	✓	-	-
340pre3	✓	-	-	-	-	-
340pre4	✓	-	-	-	-	-
340pre5	✓	✓	✓	✓	✓	-
340pre6	⚠	-	-	-	-	-
340pre7	✓	✓	-	✓	✓	-
340	✓	✓	✓	-	-	-
341	✓	✓	✓	✓	-	-
342	✓	✓	✓	✓	-	-

### 34X details

- 340pre2/pre3/pre4/pre5 TkAl: Different (wrong) shape of eta distribution for two cosmic samples (compare versions up to 340pre1).
- 340pre3: HcalCalIsoTrk: No sample in database.
- 340pre2/3: HcalCalHO: No sample in database.
- 340pre4: HcalCalIsoTrk: Bad ecal reco energy (known problem solved in 340pre5).
- 340pre7: The shape of eta distribution for two cosmic samples is fine again.
- Up to and including 340\_pre7 the SiStripCluster of the new SiStripRecHit1D used in the barrel was not stored for tracks, so reco::Track in alignment ALCARECO are not refittable. Fixed in 340.

### Release 35X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
350pre1	✓	✓	✓	✓	✓	-
350pre2	✓	✓	✓	✓	✓	-
350pre3	✓	✓	✓	-	-	-
350pre5	✓	✓	✓	✓	✓	-
350	✓	✓	✓	✓	✓	-
351	✓	✓	-	✓	✓	-
352	✓	✓	-	✓	✓	-
353	✓	✓	-	✓	✓	-
354	✓	✓	-	✓	✓	-
355	✓	✓	-	-	✓	-
357	✓	-	-	-	✓	-
358	-	-	-	-	✓	-

### 35X details

- Up to and including 350\_pre2 same problem with the SiStripCluster of new SiStripRecHit1D for alignment ALCARECO as for 340\_preX. Fix will be in 350\_pre3.
- 350pre5: HcalCalIsoTrk: The number of offline iso.tracks for 350pre5 is more then 2 times greater that in 350pre3. In the same time the number of HLT L3 Object is almost the same in 350pre3 and 350pre5. If one looks in DBS at the number of events in AlCaReco sample for 350pre5 vs 350pre3 one can see that it is 100% vs. 30% of initial TTbar sample. So likely triggers for IsoTrack AlCaReco were changed for MC\_3XY\_V20 tag.

### Release 36X

Release	AlCaReco
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	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
360pre1	✓	✓	-	✓	✓	-
360pre2	✓	✓	-	✓	✓	-
360pre3	✓	✓	-	✓	✓	-
360pre4	✓	✓	-	-	✓	-
360pre5	✓	✓	-	-	✓	-
360pre6	✓	✓	-	-	✓	-
360	✓	-	-	-	✓	-
361	✓	-	-	-	✗	-
362	-	-	-	-	✓	-
363	-	-	-	-	✓	-

### 36X details

\* 361: HcalCalIsoTrk: The difference with 360 is due to the fix in the HLT code that affects the isolation in HE. \* 362, 263: HcalCalIsoTrk: The constraint in HLT\_IsoTrack which should be relaxed. It is the size of cylinder of L3 track origin. We see loss of efficiency in the releases where beam spot was shifted substantially in MC conditions.

### Release 37X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
370pre1	✓	-	-	-	✓	-
370pre2	✓	-	-	-	✓	-
370pre3	✓	-	-	-	✓	-
370pre4	✓	-	-	-	✓	-
370pre5	-	-	-	-	✓	-
370	-	-	-	-	✓	-
371	-	-	-	-	✓	-

### 37X details

\* 370pre3: HcalCalIsoTrk: The difference with 370p2 is due to the fix in the HLT code that affects the isolation in HE.

### Release 38X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
380pre1	✓	-	-	-	✓	-

380pre2	✓	-	-	-	✗	-
380pre4	✓	-	-	-	✓	-
380pre5	✓	-	-	-	✓	-
380pre6	-	-	-	-	✓	-
380pre7	-	-	-	-	✓	-
380pre8	✓	-	-	-	✓	-
380	-	-	-	-	✓	-
381	-	-	-	-	✓	-
382	✓	-	-	-	✓	-
383	✓	-	-	-	✓	-
384	✓	-	-	-	✓	-
385	-	-	-	-	✓	-
386	-	-	-	-	✓	-
387	-	-	-	-	✓	-

### 38X details

- 380pre2: HcalCalIsoTrk: Failed. Problem with tracker, confirmed by tracker validation: "This is due to inconsistent use of the Global Tag for this prerelease which has resulted in significant discrepancies in comparison to 380pre1".
- 380pre3-9 & 380: HcalCalIsoTrk: The constraint in HLT\_IsoTrack which should be relaxed. It is the size of cylinder of L3 track origin. We see loss of efficiency in the releases where beam spot was shifted substantially in MC conditions.
- 381: SiStripCalZeroBias & SiStripCalMinBias: Failed. The AlCaRecos are empty, although there was no change in the code with respect to previous release.
- 382: SiStripCalZeroBias & SiStripCalMinBias: Failed. The AlCaRecos are empty, although there was no change in the code with respect to previous release.
- 383: SiStripCalZeroBias & SiStripCalMinBias: Failed. The AlCaRecos are still empty.
- 381-383 : HcalCalHO data sample are not available/empty.

### Release 39X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
390pre1	✓	-	-	-	✓	-
390pre2	✓	-	-	-	✓	-
390pre3	✓	-	-	-	✓	-
390pre4	✓	-	-	-	✓	-
390pre5	✓	-	-	-	✓	-
390pre6	✓	-	-	-	✗	-
390pre7	✓	-	-	-	✗	-
391	✓	-	-	-	✓	-
392	✓	-	-	-	✓	-
393	-	-	-	-	✓	-
394	-	-	-	-	✓	-
395	-	-	-	-	✓	-

396	-	-	-	-	✓	-
397	-	-	-	-	✓	-
399	-	-	-	-	✓	-

### 39X details

- 390pre1: HcalCalIsoTrk: The constraint in HLT\_IsoTrack which should be relaxed. It is the size of cylinder of L3 track origin. We see loss of efficiency in the releases where beam spot was shifted substantially in MC conditions.
- 390pre2: SiStripCalZeroBias & SiStripCalMinBias: Failed. The AlCaReco are empty, although there was no change in the code with respect to previous release.
- 390pre3: SiStripCalZeroBias & SiStripCalMinBias: Failed. The AlCaReco are empty, although there was no change in the code with respect to previous release.
- 390pre2-pre3 : HcalCalHO data sample are not available.
- 399 has been validated for 64 bits (from SiStrip)

### Release 310X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBi
3100pre1	-	-	-	-	✗	-
3100pre2	-	-	-	-	✓	-
3100pre3	-	-	-	-	✓	-
3100pre5	✓	-	-	-	✓	-
3100pre6	-	-	-	-	-	-
3100pre7	✓	-	-	-	✓	-
3100pre8	✓	-	-	-	✓	-
3100pre9	✓	-	-	-	✓	-
3100	-	-	-	-	✓	-
3101	✓	-	-	-	✓	-

### 310X details

- 390pre2-pre3 : HcalCalHO, signal in outer ring are higher (yet to understand it).

### Release 311X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBi
3110pre2	✓	-	-	-	✓	-
3110pre3	✓	-	-	-	✓	-

3110pre5	✓	-	-	-	✓	-
3110	-	-	-	-	✓	-
3111	-	-	-	-	✓	-
3112	-	-	-	-	✓	-
3113	-	-	-	-	✓	-

### 311X details

## Release 41X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
410pre1	-	-	-	-	⚠	-
410pre2	-	-	-	-	-	-
412	-	-	-	-	✓	-
413	-	-	-	-	✓	-
414	-	-	-	-	✓	-
415	-	-	-	-	✓	-
416	-	-	-	-	✓	-
417	-	-	-	-	✓	-

### 41X details

## Release 42X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
420pre1	-	-	-	-	✓	-
420pre2	-	-	-	-	⚠	-
420pre4	-	-	-	-	-	-
420pre5	-	-	-	-	⚠	-
420pre6	-	-	-	-	-	-
420pre7	-	-	-	-	⚠	-
420pre8	-	-	-	-	✓	-
420	-	-	-	-	✓	-
421	-	-	-	-	✓	-
422	-	-	-	-	✓	-
423	-	-	-	-	✓	-
424	-	-	-	-	✓	-
425	-	-	-	-	✓	-



426	-	-	-	-	✓	-
428	-	-	-	-	✓	-

## 42X details

## Release 43X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
430pre1	-	-	-	-	⚠	-
430pre2	-	-	-	-	⚠	-
430pre3	-	-	-	-	⚠	-
430pre4	-	-	-	-	⚠	-
430pre5	-	-	-	-	⚠	-
430pre6	-	-	-	-	⚠	-
430pre7	-	-	-	-	⚠	-

## 43X details

\* HcalCalHO is reactivated from CMSSW\_4\_3\_0\_pre4.

## Release 44X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
440pre1	-	-	-	-	⚠	-
440pre2	-	-	-	-	⚠	-
440pre3	-	-	-	-	⚠	-
440pre4	-	-	-	-	⚠	-
440pre5	-	-	-	-	✓	-
440pre6	-	-	-	-	⚠	-
440pre7	-	-	-	-	⚠	-
440pre8	-	-	-	-	✓	-
440pre9	-	-	-	-	✓	-
440pre10	-	-	-	-	✓	-
440	-	-	-	-	✓	-
441	-	-	-	-	✓	-
442	-	-	-	-	✓	-

## Release 50X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
500pre3	-	-	-	-	✓	-
500pre4	-	-	-	-	✓	-
500pre7	-	-	-	-	✓	-
500	-	-	-	-	✓	-
501	-	-	-	-	✓	-

## Release 51X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
510pre1	-	-	-	-	✓	-
510pre2	-	-	-	-	✓	-
512	-	-	-	-	✓	-

## Release 52X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
520pre1	-	-	-	-	✓	-
520pre2	-	-	-	-	✓	-
520pre3	-	-	-	-	✓	-
520pre4	-	-	-	-	✓	-
520pre5	-	-	-	-	✓	-
520pre6	-	-	-	-	✓	-
520	-	-	-	-	⚠	-
521	-	-	-	-	✓	-
522	-	-	-	-	✓	-
523	-	-	-	-	✓	-
527	-	-	-	-	✓	-

## Release 53X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
530	-	-	-	-	✓	-
531	-	-	-	-	-	-
532	-	-	-	-	⚠	-

534cand1	-	-	-	-	-	-
536	-	-	-	-	-	-

## Release 60X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
600pre1	-	-	-	-	✓	-
600pre2	-	-	-	-	✓	-
600pre3	-	-	-	-	✓	-
600pre4	-	-	-	-	✓	-
600pre5	-	-	-	-	✓	-
600pre6	-	-	-	-	✓	-
600pre7	-	-	-	-	✓	-
600pre8	-	-	-	-	-	-
600pre10	-	-	-	-	✓	-
600pre11	-	-	-	-	✓	-
600	-	-	-	-	-	-
601pre1	-	-	-	-	-	-
601pre3	-	-	-	-	-	-
601pre4	-	-	-	-	-	-
601pre5	-	-	-	-	-	-
601	-	-	-	-	-	-

## Release 61X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
610pre1	-	-	-	-	-	-
610pre3	-	-	-	-	-	-
610pre4	-	-	-	-	-	-
610pre5	-	-	-	-	-	-
610	-	-	-	-	-	-
611	-	-	-	-	-	-
612	-	-	-	-	-	-

## Release 62X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBias
620pre1	-	-	-	-	-	-
620pre5	-	-	-	-	-	-
620pre7	-	-	-	-	-	-
620pre8	-	-	-	-	-	-
620	-	-	-	-	-	-

## Release 70X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBi
700_pre4	-	-	-	-	-	-
700_pre5	-	-	-	-	-	-
700_pre6	-	-	-	-	-	-
700_pre7	-	-	-	-	-	-
700_pre8	-	-	-	-	-	-
700_pre9	-	-	-	-	-	-
700_pre10	-	-	-	-	-	-
700_pre11	-	-	-	-	-	-
700_pre12	-	-	-	-	-	-
700_pre13	-	-	-	-	-	-
700	-	-	-	-	-	-

## Release 71X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBi
710_pre1	-	-	-	-	-	-
710_pre2	-	-	-	-	-	-
710_pre3	-	-	-	-	-	-
710_pre4	-	-	-	-	-	-
710_pre5	-	-	-	-	-	-
710_pre6	-	-	-	-	-	-
710_pre7	-	-	-	-	-	-
710_pre8	-	-	-	-	-	-
710_pre9	-	-	-	-	-	-

## Release 72X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBi
720_pre1	-	-	-	-	-	-
720_pre3	-	-	-	-	-	-
720_pre4	-	-	-	-	-	-
720_pre5	-	-	-	-	-	-
720_pre6	-	-	-	-	-	-
720_pre7	-	-	-	-	-	-
720_pre8	-	-	-	-	-	-
720	-	-	-	-	-	-

## Release 73X

Release	AlCaReco					
	TkAl*	MuAl*	EcalCalPhiSymmetry	EcalCalPi0Calib/EcalCalEtaCalib	EcalCalElectron	HcalCalMinBi
730_pre1	-	-	-	-	-	-

- AndreaRizzi - 2009-08-24

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