

PROBA-V geometric Calibration/Validation Status

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QWG 09/05/2017

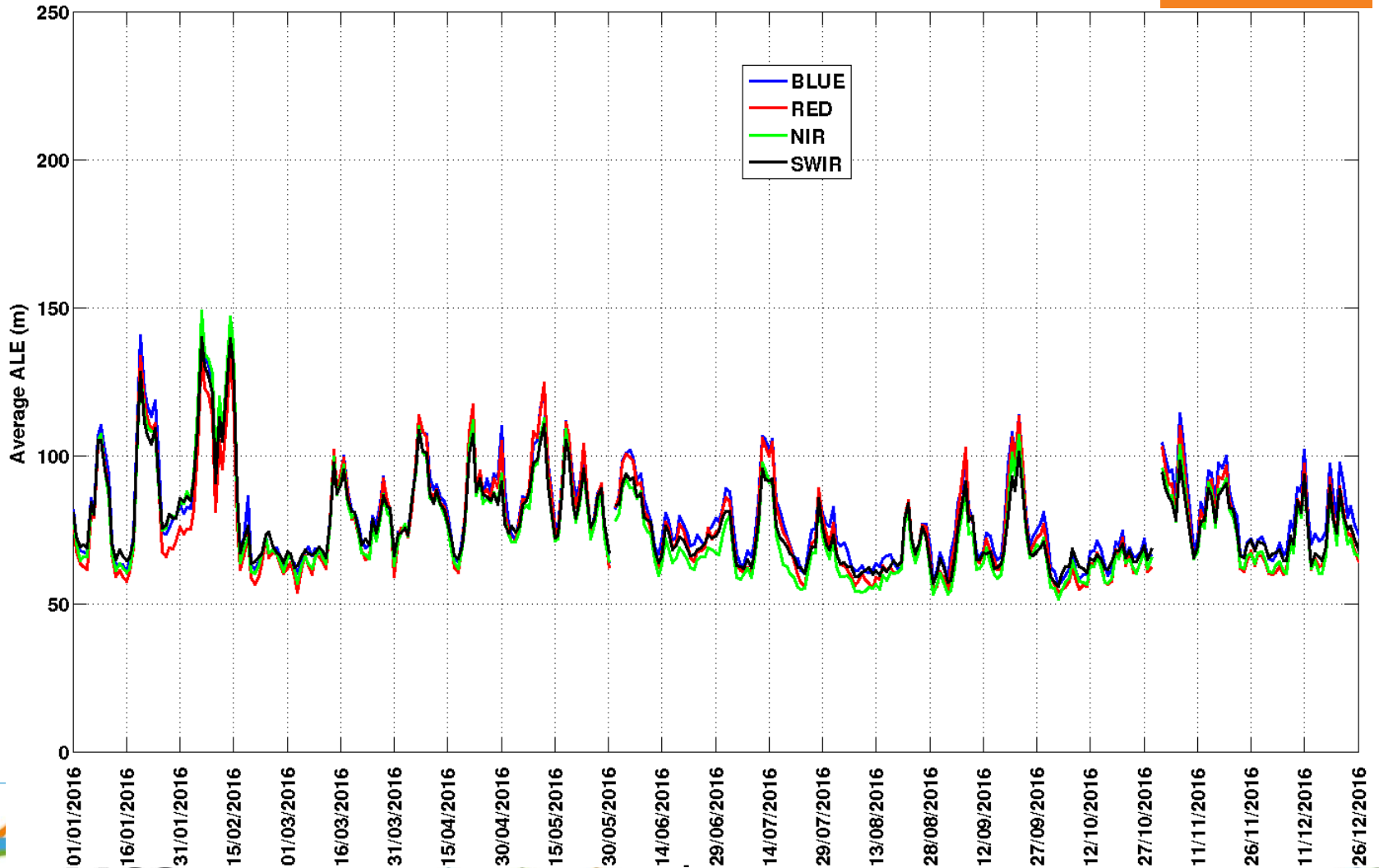
Outline

- Absolute accuracy
- Interband accuracy
- Multitemporal

Absolute accuracy

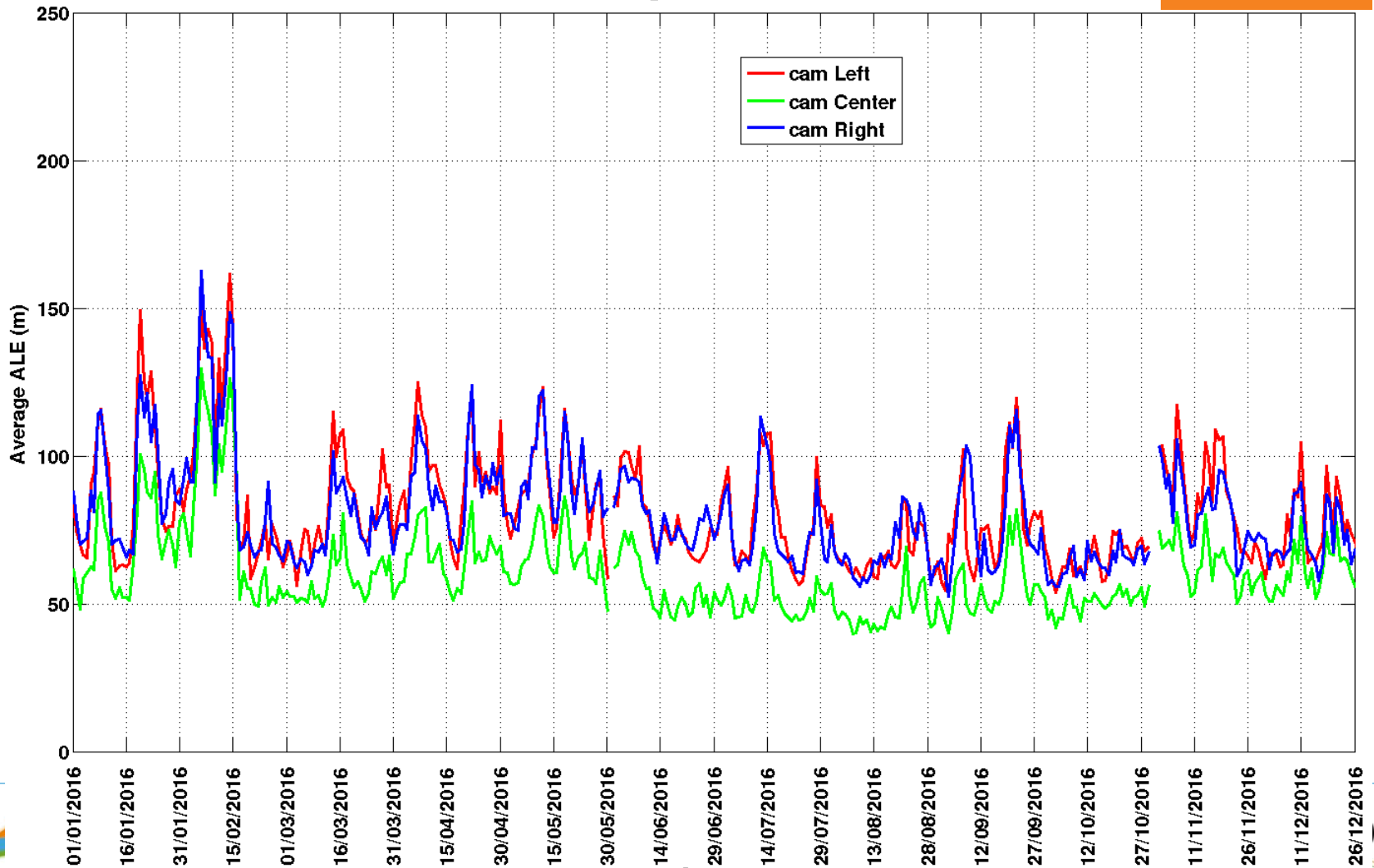
Geometric error for all camera

2016



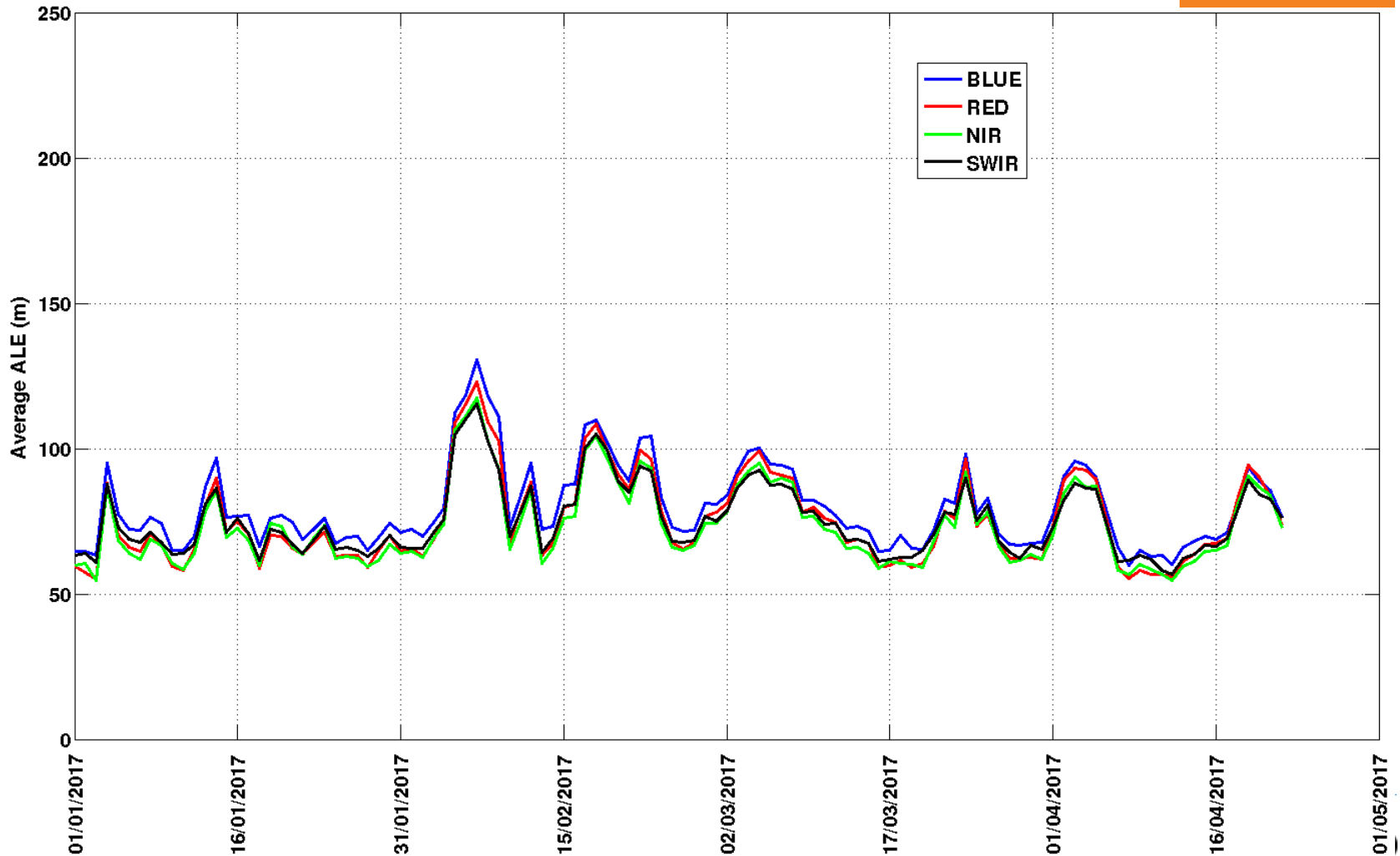
Geometric error per camera

2016



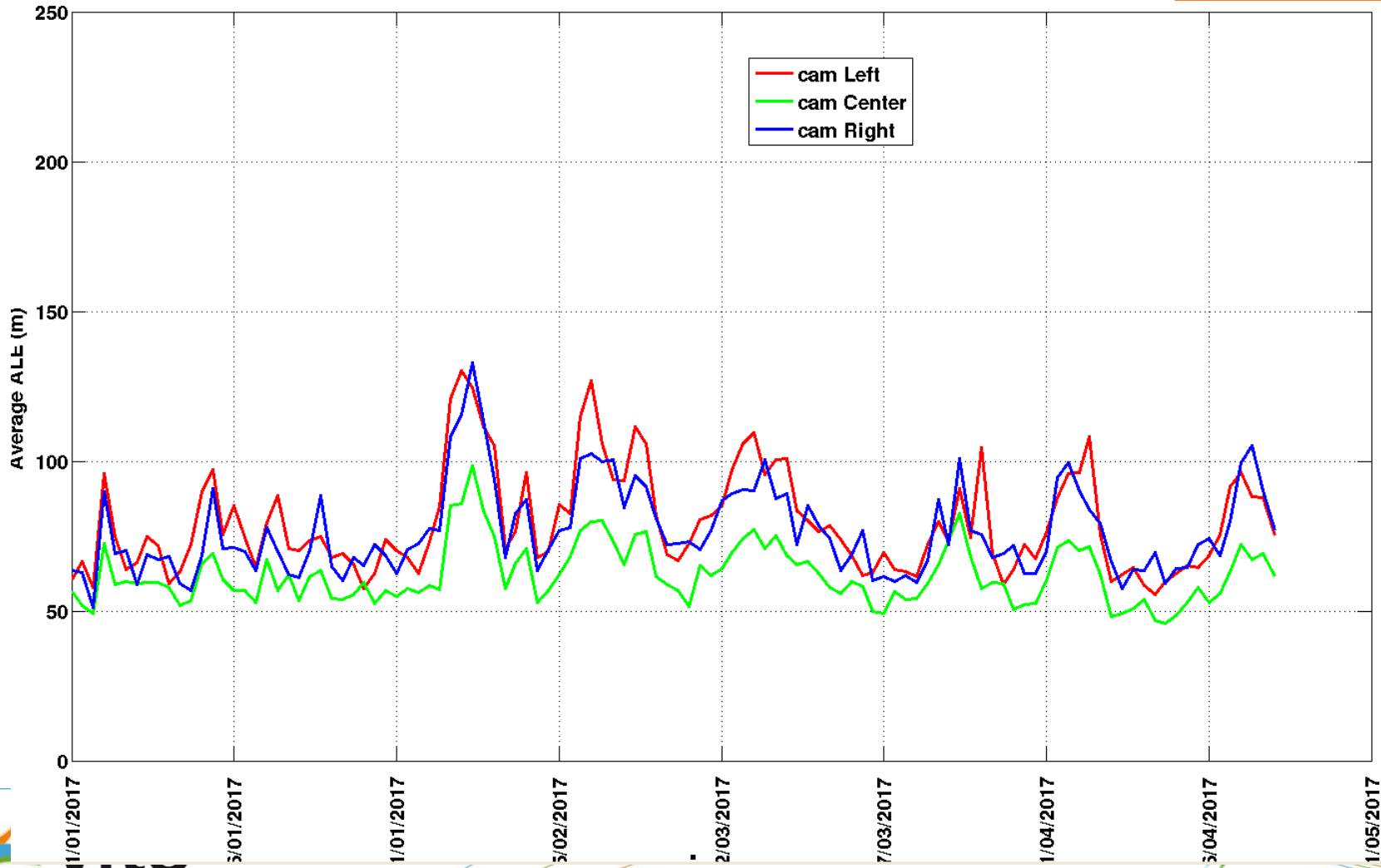
Geometric error for all cameras

2017



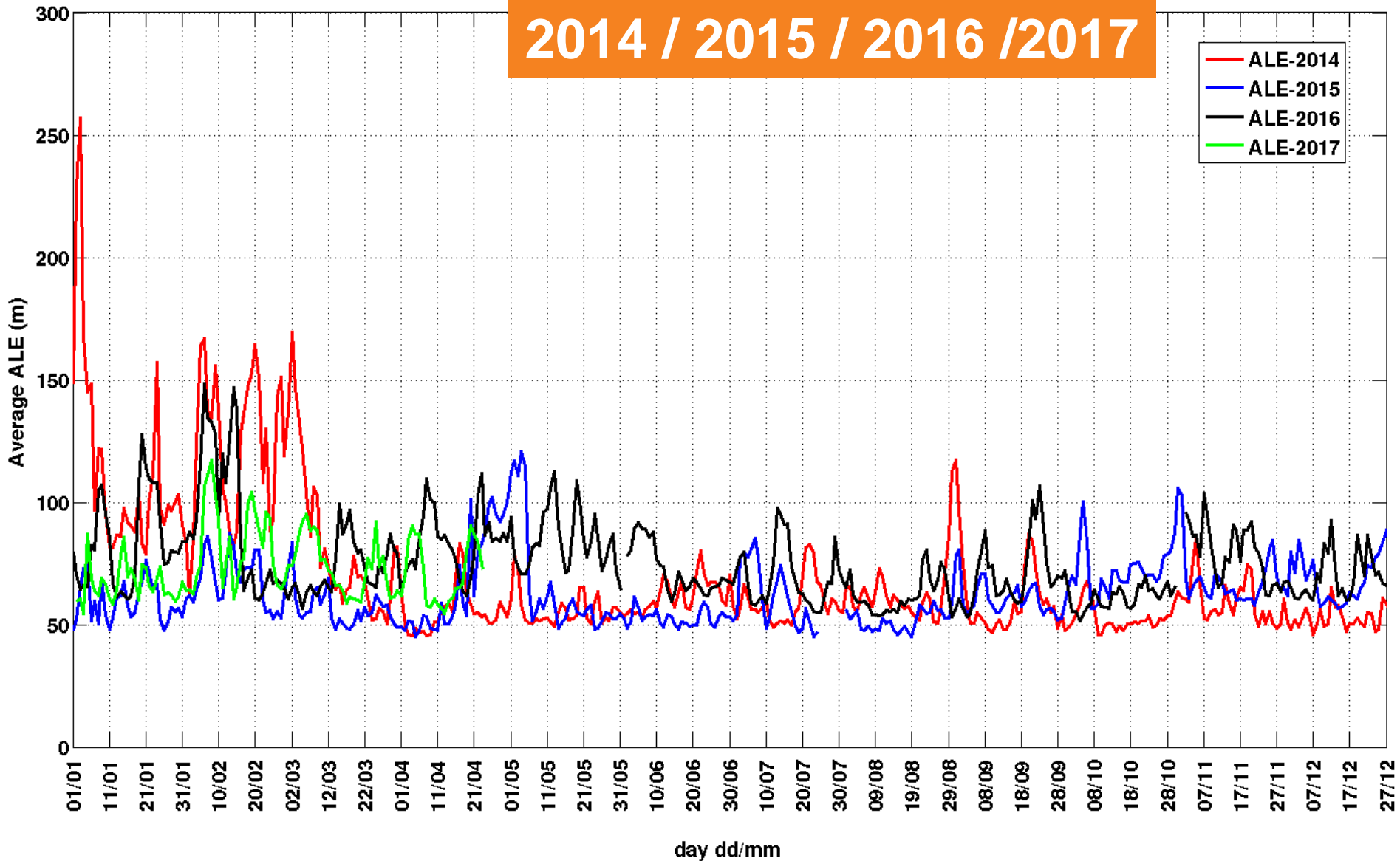
Geometric error per camera

2017



ABSOLUTE GEOMETRIC ERRORS

2014 / 2015 / 2016 / 2017

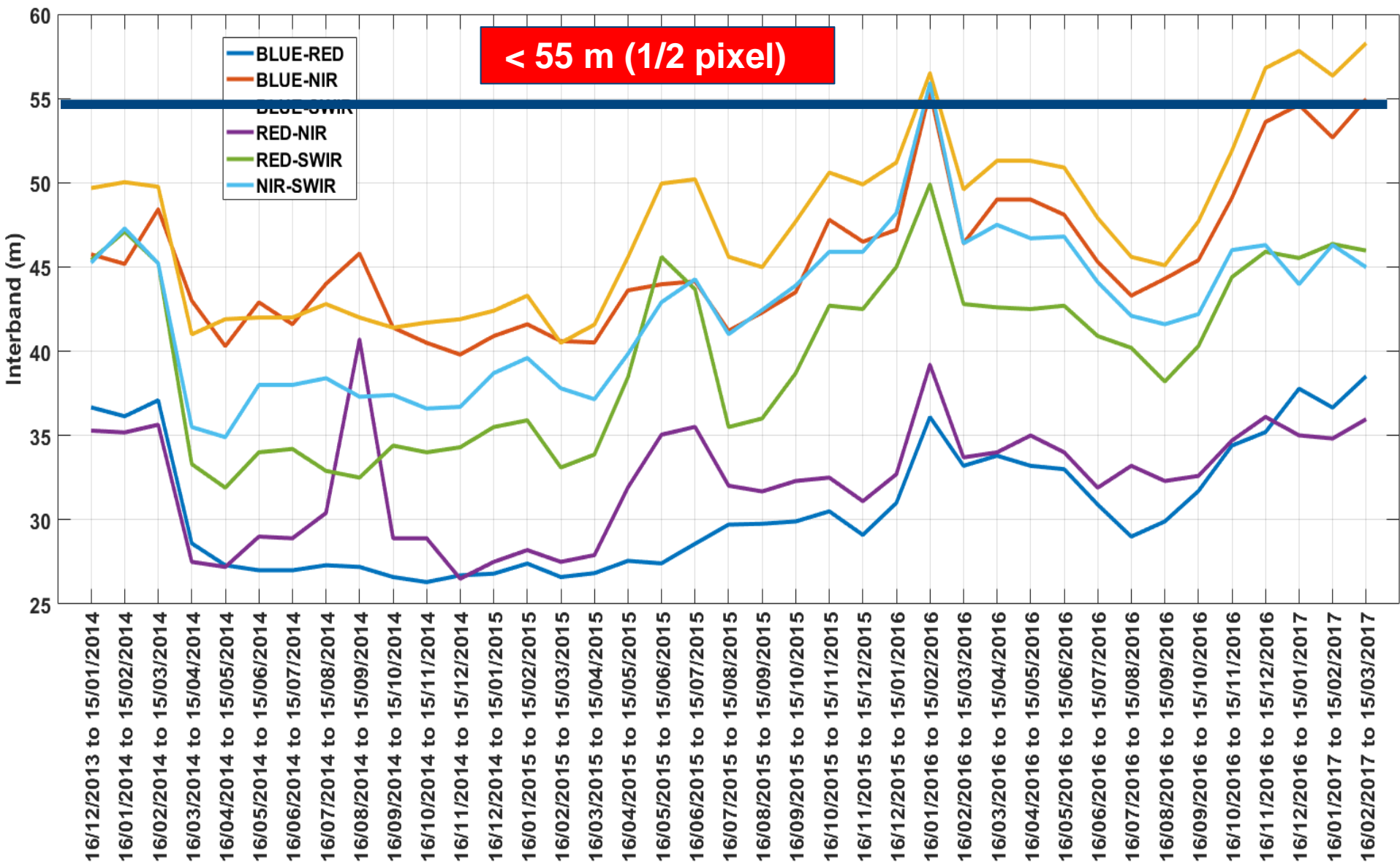


ABSOLUTE GEOMETRIC ERRORS

**%days where ALE is within intervals
(Jan 2014- April 2017)**

ALE ranges	Blue	Red	NIR	SWIR
$0 < \text{ALE} \leq 50 \text{ m}$	7.68 %	10.84 %	6.83 %	1.11 %
$50 < \text{ALE} \leq 100 \text{ m}$	81.30 %	79.67 %	83.51 %	90.26 %
$100 < \text{ALE} \leq 150 \text{ m}$	8.45 %	6.91 %	6.83 %	5.97 %
$150 < \text{ALE} \leq 200 \text{ m}$	0.59 %	0.60 %	0.85 %	0.68 %
$200 < \text{ALE} \leq 250 \text{ m}$	0.17 %	0.17 %	0.08 %	0.17 %

Interband accuracy



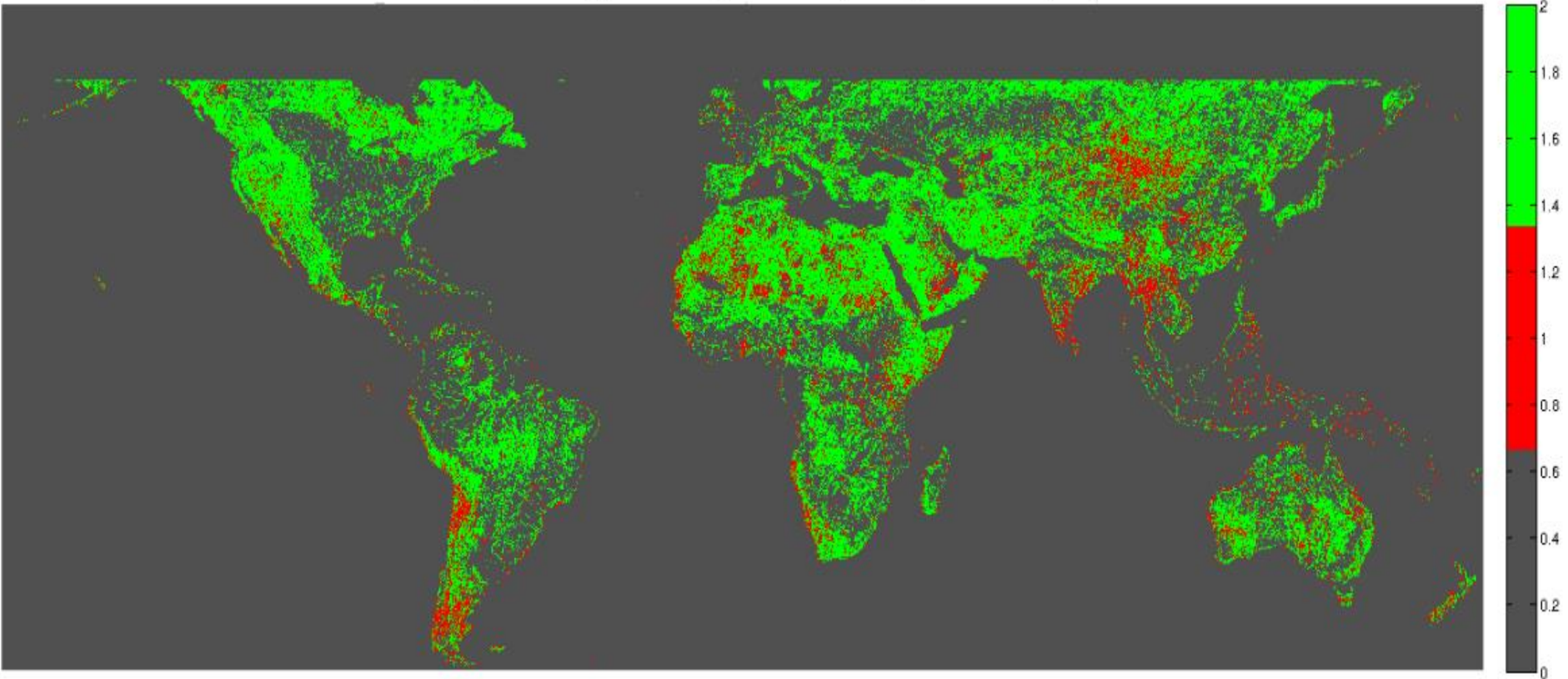
Multitemporal accuracy

Multitemporal map for 2014-2017

VNIR → 80%

SWIR/VNIR → 94%

Multitemp VNIR flag (0:novalue, 1:MultiTempNOK, 2:MultiTempOK)

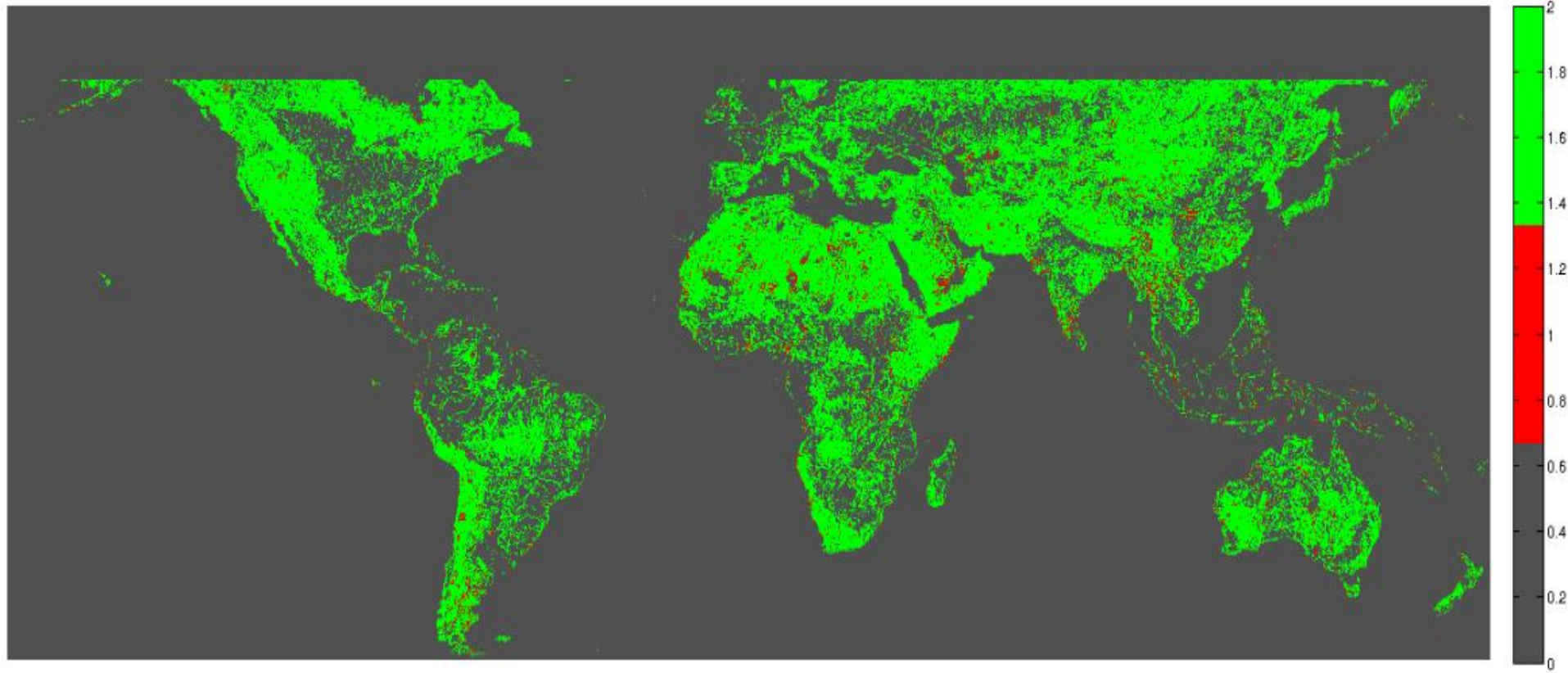


Multitemporal map for 2014-2017

VNIR → 80%

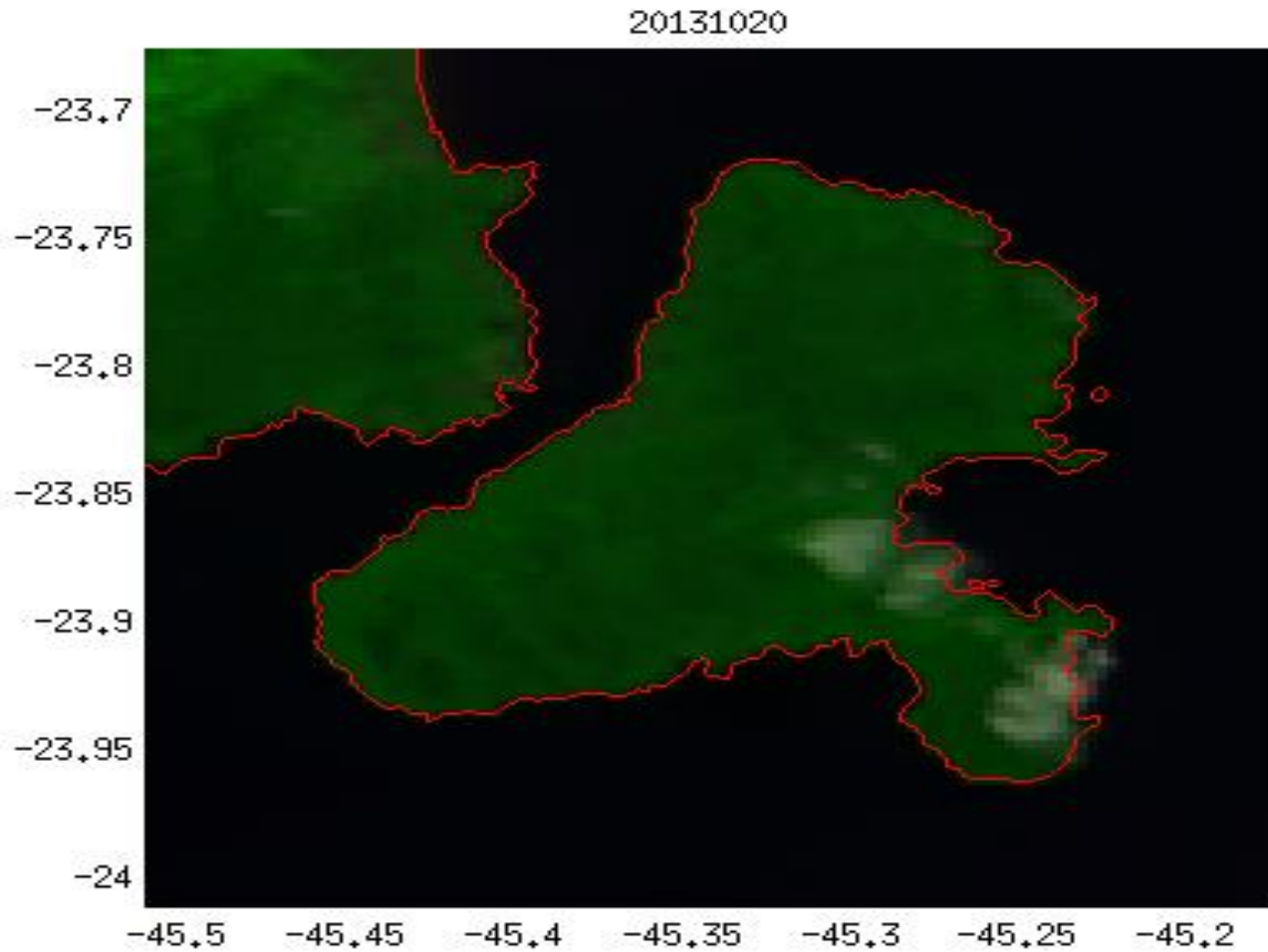
SWIR/VNIR → 94%

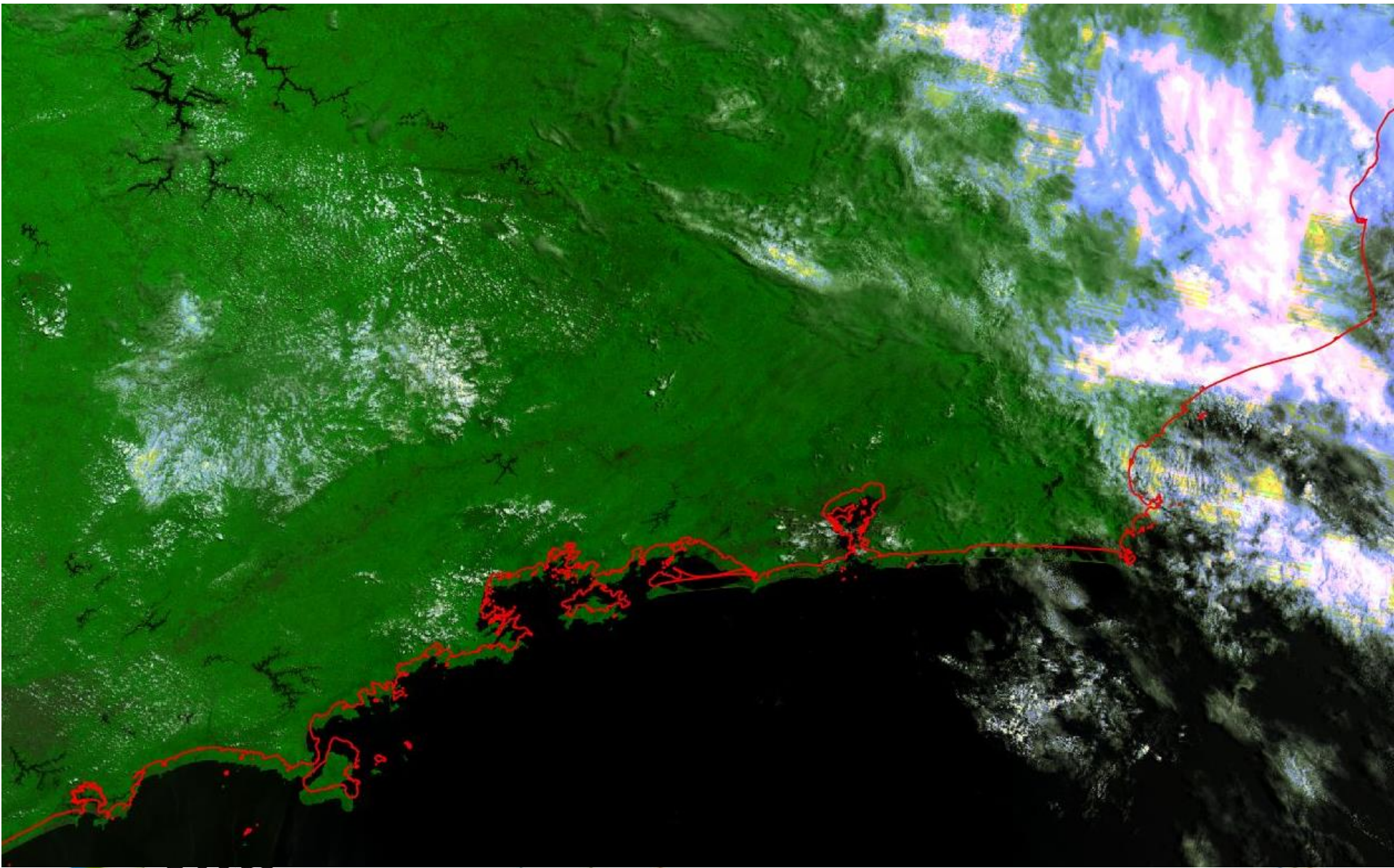
Multitemp VNIR/SWIR flag (0:novalue, 1:MutiTempNOK, 2:MultiTempOK)



Multitemporal map for 2014-2017

[https://maps.google.fr/?ll=-23.85193,-45.243416&spn=0.265959,0.528374&t=h&z=12\)](https://maps.google.fr/?ll=-23.85193,-45.243416&spn=0.265959,0.528374&t=h&z=12)





ICP files

CORRECTION HISTORY (ICP)

Year	ICP filename	Start validity	End validity	Creation date
2016	PROBAV_G_000_20160901_01	20160901	Today	08-Sep-2016 10:47:25
	PROBAV_G_000_20160208_01	20160208	20160901	16-Feb-2016 12:25:10
	PROBAV_G_000_20160119_01	20160119	20160208	25-Jan-2016 22:04:51
2015	PROBAV_G_000_20151027_01	20151027	20160119	02-Nov-2015 13:48:05
	PROBAV_G_000_20151003_01	20151003	20151027	06-Oct-2015 17:17:11
	PROBAV_G_000_20150704_01	20150704	20151003	09-Jul-2015 10:47:10
	PROBAV_G_000_20150420_01	20150420	20150704	06-May-2015 13:17:15
2014	PROBAV_G_000_20140312_01	20140312	20150420	24-Mar-2014 11:16:46
	PROBAV_G_000_20140101_02	20140101	20140312	07-Jan-2014 17:22:21
2013	PROBAV_G_000_20131101_01	20131101	20140101	09-Nov-2013 11:57:18
	PROBAV_G_000_20131016_01	20131016	20131101	28-Nov-2013 11:58:50
	PROBAV_G_000_20131001_02	20131001	20131016	30-Oct-2013 11:51:55
	PROBAV_G_000_20131001_01	20131001	20131001	30-Sep-2013 18:27:19
	PROBAV_G_000_20130718_01	20130718	20131001	18-Jul-2013 16:11:14