



# EUROPEAN SOUTHERN OBSERVATORY

Organisation Européenne pour des Recherches Astronomiques dans l'Hémisphère Austral  
Europäische Organisation für astronomische Forschung in der südlichen Hemisphäre

ESO - EUROPEAN  
SOUTHERN  
OBSERVATORY

## VERY LARGE TELESCOPE

### PRIMET Test Plan June 2013

Doc. No.: VLT-PLA-ESO-15700- XXX

Issue 1

Date:4/6/2013

Prepared: S.Leveque

Name	Date	Signature
------	------	-----------

Approved:

Name	Date	Signature
------	------	-----------

Released:

Name	Date	Signature
------	------	-----------

<b>ESO</b>	PRIMET Test Plan June 2013	Doc:	VLT-TRE-ESO-15700- xxxx
		Issue:	1
		Date:	4/6/2013
		Page:	2 of 9

CHANGE RECORD

Issue	Date	Affected Paragraphs(s)	Reason/Initiation/Remarks
1	4/6/2013	All	First issue

<b>ESO</b>	PRIMET Test Plan June 2013	Doc:	VLT-TRE-ESO-15700- xxxx
		Issue:	1
		Date:	4/6/2013
		Page:	3 of 9

## TABLE OF CONTENTS

<b>1</b>	<b>Scope .....</b>	<b>4</b>
<b>2</b>	<b>Reference document.....</b>	<b>4</b>
<b>3</b>	<b>Introduction.....</b>	<b>4</b>
<b>4</b>	<b>Overall schedule- Request for Paranal support.....</b>	<b>5</b>
<b>5</b>	<b>Availability.....</b>	<b>7</b>
<b>6</b>	<b>Task description .....</b>	<b>8</b>

<b>ESO</b>	PRIMET Test Plan June 2013	Doc:	VLT-TRE-ESO-15700- xxxx
		Issue:	1
		Date:	4/6/2013
		Page:	4 of 9

## 1 SCOPE

This document presents the activities related to PRIMET for the June2013 run, as well as the necessary support from Paranal.

## 2 REFERENCE DOCUMENT

Reference	Doc. number	Issue	Date	Title
RD 1				

## 3 INTRODUCTION

The main objective is to calibrate PRIMET for the new A1 station as well as for the J2 station with the new STS-VCM.

This document, the schedule as well as additional procedures related to this run are located at  
 \\ads-fs1\Shared\TSD\PRIMA Metrology\15730 PRIMA Metrology\15730 Project docs-data package\AIV-COM



<b>ESO</b>	PRIMET Test Plan June 2013	Doc:	VLT-TRE-ESO-15700- xxxx
		Issue:	1
		Date:	4/6/2013
		Page:	6 of 9

Date	Activity	responsible	Request for Paranal support
≤18/6	FSU/Marcel Alignment		Instrumentation (P.Bourget ?)
19/6	Arrival S.Leveque		
	Move AT3-DF-A1		Mechanical group
	Change AT3-DF ROC (afternoon)	Leveque	
	Move M12 (DF) A1-DL6		VLTI (syst Eng ?)
20/6	Move AT4-DF-J2		Mechanical group
	Change AT4-DF ROC	Leveque	
	<b>PRIMET AT3 pupil tracker calibration Coude RR (day 1)</b>	Leveque	
21/6	<b>PRIMET AT3 pupil tracker calibration Coude RR (day 2)</b>	Leveque	
22/6	Move M12 (DF) J2-DL4		VLTI (syst Eng ?)
	<b>PRIMET AT4 pupil tracker calibration Coude RR (day 1)</b>	Leveque	
23/6	<b>PRIMET AT4 pupil tracker calibration Coude RR (day 2). Morning only</b>	Leveque	
	Move back M12 U4-DL4 (for night observation)		VLTI (syst Eng ?)
	Install AT4-M2-RR (afternoon)		POL
	Lift AT4-ROS to install RR-cover	Leveque	Mechanical group
24/6	Move AT3-DF-G2		Mechanical group
	Change AT3-DF ROC	Leveque	
	install RR-cover	Leveque	
	Install AT3-M2-RR		POL
	Move M12 (DF) G2-DL2		VLTI (syst Eng ?)
	Derotator test (standalone G2 day-time)	Wuillez	
	Move M12 (DF) J2-DL4		VLTI (syst Eng ?)
	<b>PRIMET AT4 test on M2-RR (day)</b>	Leveque	
	Start DDL1&3 laser replacement	Leveque	TBC
25/6	Move AT3-DF-A1		Mechanical group



<b>ESO</b>	PRIMET Test Plan June 2013	Doc:	VLT-TRE-ESO-15700- xxxx
		Issue:	1
		Date:	4/6/2013
		Page:	8 of 9

## 6 TASK DESCRIPTION

<b>Identification</b>	<b>PRIMET pupil tracker calibration on Coude RR</b>
<b>Priority</b> (high,medium,low)	high
<b>Duration</b>	2 days for each AT (Day-time)
<b>Responsible</b>	leveque
<b>Description</b>	Calibrate the DL-VCM offset
<b>Prerequisite/Predecessor</b>	AT3 on A1 (or AT4 on J2) New AT-STS VCM installed <ul style="list-style-type: none"> <li>• AT3-DF-A1-DL6 (ROC 185mm)</li> <li>• AT4-DF-J2-DL4 (ROC 210mm)</li> </ul> M12-A1-DL6 ( or M12-J2-DL4)
<b>Input</b>	
<b>Output</b>	Updated value for
<b>Criteria for Completion</b>	Primet operating along whole DL stroke
<b>Successor</b>	PRIMET AT test on M2-RR
<b>Manpower Required</b>	Leveque
<b>Facility /Tooling Required</b>	Whole VLTi Access to VLTi lab (confirm authorization for accessibility during the UT run) PC connected to Beam profiler VLTi start-up
<b>Sequence /procedure(incl. ref doc)</b>	"Prima Metrology 10th Technical Report 5/7 to 14/7/2011", VLT-TRE-ESO-15730-5381 section 6.1 6.1: Calibration of the AT output pupil longitudinal position (distATPupFixVCM)

<b>Identification</b>	<b>PRIMET Test on M2-RR</b>
<b>Priority</b> (high,medium,low)	high
<b>Duration</b>	1 day for each AT (Day-time)
<b>Responsible</b>	leveque
<b>Description</b>	Check the functionality of PRIMET on the M2-RR
<b>Prerequisite/Predecessor</b>	<ul style="list-style-type: none"> <li>• PRIMET pupil tracker calibration on Coude RR</li> <li>• M2-RR installed</li> <li>• RR-cover installed (bloc coude RR)</li> </ul>
<b>Input</b>	-
<b>Output</b>	Results of PRIMET health check scripts.
<b>Criteria for Completion</b>	Primet functional on M2-RR
<b>Successor</b>	PRIMA sky tests
<b>Manpower Required</b>	Leveque
<b>Facility /Tooling Required</b>	Whole VLTi VLTi start-up

<b>ESO</b>	PRIMET Test Plan June 2013	Doc:	VLT-TRE-ESO-15700- xxxx
		Issue:	1
		Date:	4/6/2013
		Page:	9 of 9

<b>Sequence /procedure(incl. ref doc)</b>	Run VLT start-up Check PRIMET pupil tracking Run PRIMET Health check scripts.
---	---

<b>Identification</b>	<b>DDL laser replacement</b>
<b>Priority</b> (high,medium,low)	high
<b>Duration</b>	3 days (TBC)
<b>Responsible</b>	Leveque
<b>Description</b>	Replace the laser for DDL1-3
<b>Prerequisite/Predecessor</b>	Laser available at Paranal
<b>Input</b>	-
<b>Output</b>	DDL1-3 online
<b>Criteria for Completion</b>	DDL1-3 operates along full stroke (health check scripts, TBC)
<b>Successor</b>	-
<b>Manpower Required</b>	Leveque Paranal support (TBD ??)
<b>Facility /Tooling Required</b>	VLT lab during day-time Check authorization for accessibility during the UT run
<b>Sequence /procedure(incl. ref doc)</b>	TBC by F.Derie.