AI#	ALTAIR or KECK actions	Deliverables (data, code, documents)	who	LJO days	JCH days	Total LJO days	end date	LJO Cost per item	Total LJO cost	Tolstoy grant	CfAO Keck	Gemini
A01	Get back on OPERA (house keeping, run it on ALTAIR archive data)		LJO	10	0	10	29-Jan	$6,560	$6,560		$6,560	
A02	establish range of WFS photo-electron count rate per lenslet that is of interest for testing OPERA in bright to faint NGS conditions	DOC: lenslet count rate for tests	LJO	2	0	12	11-Feb	$1,312	$7,872		$1,312	
A03	Get on-sky AO data (archive or not), first batch.	DATA: 1st batch of ALTAIR sky data	JCH	0	5	12	11-Feb	$0	$7,872		$0	
A04	Testing OPERA on 1st batch of sky data.	DOC: report on first test of OPERA	LJO	20	0	32	23-Apr	$13,120	$20,992		$13,120	
A05	System debugging — ALTAIR & OPERA.	CODE: new OPERA software	LJO & JCH	40	40	72	23-Jun	$26,240	$47,232	$1,766	$22,708	$1,766
A06	Get 2nd batch of ALTAIR sky data	DATA: 2nd batch of ALTAIR sky data	JCH	0	5	72	23-Jun	$0	$47,232	$0		$0
A07	Testing OPERA on 2nd batch of sky data	DOC: report on final test of OPERA	LJO	20	0	92	13-Sep	$13,120	$60,352	$6,560		$6,560
A08	Prepare OPERA to make it compatible with GEMINI observatory software standards	CODE: OPERA code translated to Gemini standards	LJO (+?)	15	0	107	12-Oct	$9,840	$70,192	$4,920		$4,920
A09	Implement OPERA inside ALTAIR data pipeline	CODE: OPERA implemented into ALTAIR data pipeline	LJO (+?)	10	0	117	2-Nov	$6,560	$76,752	$3,280		$3,280
A10	Integrate Ralf Flicker legacy on KECK-AO	DOC: summary of Ralf's contribution that is of interest for our project	LJO	10	0	127	22-Nov	$6,560	$83,312	$3,280		$3,280
A11	OPERA modifications for Keck AO (writing interfaces)	CODE: OPERA for KECK-AO	LJO	15	0	142	4-Jan	$9,840	$93,152	$4,920		$4,920
A12	Testing final product on ALTAIR, ensure that OPERA delivers what was expected	DOC: report demonstrating compatibility of deliverable with specifications	LJO (+?)	5	0	147	13-Jan	$3,280	$96,432	$1,640		$1,640
A13	Set-up a code maintenance procedure for OPERA on ALTAIR	DOC: maintenance procedure defined and implemented	LJO (+?)	10	0	157	2-Feb	$6,560	$102,992	$3,280		$3,280
A14	Get on-sky Keck AO data, first batch	DATA: KECK-AO data archives	PWI (+?)	10	0	167	23-Feb	$6,560	$109,552	$3,280		$3,280
A15	Testing & debugging OPERA for Keck	CODE: OPERA made ready for KECK-AO	LJO (PWI, +?)	15	0	182	24-Mar	$9,840	$119,392	$4,920		$4,920
A16	write OPERA user manual for ALTAIR	DOC: OPERA code user manual	LJO	10	0	192	27-Apr	$6,560	$125,952	$3,280		$3,280
										$41,126	$43,700	$41,126

LJO hourly rate US$	$82
number of hour per day	8
LJO daily rate US$	$656
total time days	192
total cost	**$125,952**
E Tolstoy grant	$44,000
KECK/CfAO	$43,700
Gemini	$41,126
total availabe	**$128,826**
margin US$	**-$2,874**
margin days	**-4.38**

vacations in 2010-2011
Mar-29 to Apr-11	Eastern
13,14,24 May	ascension-pentecote
Jun-27 to Jul-2	SPIE 2010 San Diego
Jul-12 to Aug-22	summer
Dec-20 to Jan-2	winter
2 weeks in March 2011	Eastern

activity level: days / week
Jan-4 to Mar-26: 1.5	time shared with IMAKA
Apr-12 to Aug-27: 5	full on OPERA
Aug-30 to end: 3.5	time left to start other projects