

IceCube M&O Staffing Matrix by WBS and Tasks v8.2 2010.0430.xls

WBS L2	WBS L3	US / Non-US	Institution	Lab or Cat.	Names	Tasks				NSF M&O Core	U.S. IN-KIND	Non U.S. In-Kind	Grand Total				
						Cat.	Description	Cat.	Description					Cat.	Description	Cat.	Description
						AD	Administration	GR	Graduate Student					PO	Postdoctoral Scientist	TE	Technician
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover										
EN	Engineer	MA	Management	SE	Senior Engineer												
2.1 Program Manage	2.1.1 Administration	US	GTECH	KE	TABOADA, IGNACIO		Chair of speakers' committee			0.25		0.25					
2.1 Program Manage	2.1.1 Administration	US	LBNL	KE	KLEIN,SPENCER		Supervise LBNL effort	0.05				0.05					
2.1 Program Manage	2.1.1 Administration	US	LBNL	KE	KLEIN,SPENCER		Publications Comm. Member		0.10			0.10					
2.1 Program Manage	2.1.1 Administration	US	PSU	KE	COWEN, DOUG		ExecCom member		0.20			0.20					
2.1 Program Manage	2.1.1 Administration	US	PSU	PO	TOALE, PATRICK		Software Coordinator	0.75				0.75					
2.1 Program Manage	2.1.1 Administration	US	UCB	KE	PRICE, BUFORD		Education & Outreach		0.10			0.10					
2.1 Program Manage	2.1.1 Administration	US	UCB	SC	WOSCHNAGG, KURT		Speakers Comm member		0.10			0.10					
2.1 Program Manage	2.1.1 Administration	US	UD	KE	GAISSER, TOM		Spokesperson		0.30			0.30					
2.1 Program Manage	2.1.1 Administration	US	UMD	KE	SULLIVAN, GREG		ExecCom member		0.20			0.20					
2.1 Program Manage	2.1.1 Administration	US	UMD	PO	OLIVAS, ALEX		Pubcom member		0.10			0.10					
2.1 Program Manage	2.1.1 Administration	US	UMD	PO	WISSING, HENRIKE		Pubcom member		0.10			0.10					
2.1 Program Manage	2.1.1 Administration	US	UW	KE	HALZEN, FRANCIS		Principle Investigator	0.08	0.33			0.42					
2.1 Program Manage	2.1.1 Administration	US	UW	KE	KARLE, ALBRECHT		Associate Director for Science	0.08	0.33			0.42					
2.1 Program Manage	2.1.1 Administration	US	UW	KE	WESTERHOFF, STEFAN		Pubcom member		0.10			0.10					
2.1 Program Manage	2.1.1 Administration	US	UW	KE	YECK, JAMES		Project Director	0.75				0.75					
2.1 Program Manage	2.1.1 Administration	US	UW	SC	HILL, GARY		Weekly call, ICC support		0.20			0.20					
2.1 Program Manage	2.1.1 Administration	US	UW	MA	MERCK, MARTIN		Computing Infrastructure Management	1.00				1.00					
2.1 Program Manage	2.1.1 Administration	US	UW	MA	PELES, ADI		Resource Coordinator	0.50				0.50					
2.1 Program Manage	2.1.1 Administration	US	UW	AD	UW AD		Administrative Support	0.50				0.50					
2.1 Program Manage	2.1.1 Administration	US	UW	AD	UW AD		Host Spring collaboration meeting		0.50			0.50					
2.1 Program Manage	2.1.1 Administration	US	US Total					3.72	2.92			6.63					
2.1 Program Manage	2.1.1 Administration	Non-US	DESY	KE	SPIERING, CHRISTIAN		ExecCom member			0.15		0.15					
2.1 Program Manage	2.1.1 Administration	Non-US	HUMB	SC	WALDENMAIER, TILO		ICC member for reconstruction			0.15		0.15					
2.1 Program Manage	2.1.1 Administration	Non-US	MPI	KE	RESCONI, ELISA		Analysis Coordinator			0.50		0.50					
2.1 Program Manage	2.1.1 Administration	Non-US	RWTH	KE	WIEBUSCH, CHRISTOPHER		Coordinate BMBF Funding			0.10		0.10					
2.1 Program Manage	2.1.1 Administration	Non-US	SU	KE	HULTH, PER OLOF		ExecCom member			0.20		0.20					
2.1 Program Manage	2.1.1 Administration	Non-US	SU	KE	HULTH, PER OLOF		Outreach			0.15		0.15					
2.1 Program Manage	2.1.1 Administration	Non-US	SU	KE	HULTH, PER OLOF		ICB Member			0.05		0.05					
2.1 Program Manage	2.1.1 Administration	Non-US	SU	KE	WALCK, CHRISTIAN		Pubcom member			0.10		0.10					
2.1 Program Manage	2.1.1 Administration	Non-US	SU	SC	FINLEY, CHAD SU		Coordination with LIGO			0.10		0.10					
2.1 Program Manage	2.1.1 Administration	Non-US	ULB	KE	BERTRAND, DANIEL		ExecCom member			0.20		0.20					
2.1 Program Manage	2.1.1 Administration	Non-US	UU	KE	BOTNER, OLGA		Outreach			0.05		0.05					
2.1 Program Manage	2.1.1 Administration	Non-US	UU	KE	BOTNER, OLGA		Pubcom Chair			0.40		0.40					
2.1 Program Manage	2.1.1 Administration	Non-US	UU	KE	HALLGREN, ALLAN		Outreach			0.05		0.05					
2.1 Program Manage	2.1.1 Administration	Non-US	UU	KE	HALLGREN, ALLAN		Speakers Comm member			0.10		0.10					
2.1 Program Manage	2.1.1 Administration	Non-US	UBONN	KE	KOWALSKI, MAREK		Pubcom member			0.10		0.10					
2.1 Program Manage	2.1.1 Administration	Non-US	UBONN	AD	UBONN AD		Host Fall Collaboration Meeting			0.10		0.10					
2.1 Program Manage	2.1.1 Administration	Non-US	UBOCHUM	KE	BECKER, JULIA		Pubcom member			0.10		0.10					
2.1 Program Manage	2.1.1 Administration	Non-US	WUPPERTAL	KE	HELBING, KLAUS		Speakers Comm member			0.10		0.10					
2.1 Program Manage	2.1.1 Administration	Non-US	MAINZ	KE	KÖPKE, LUTZ		ExecCom member			0.15		0.15					
2.1 Program Manage	2.1.1 Administration	Non-US	Non-US Total							2.85		2.85					
2.1 Program Manage	2.1.1 Administration	US	US Total					3.72	2.92	2.85		9.48					
2.1 Program Manage	2.1.2 Engineering And R&D	US	KU	KE	BESSON, DAVE		EMI - Radio R&D			0.10		0.10					
2.1 Program Manage	2.1.2 Engineering And R&D	US	UMD	KE	HOFFMAN, KARA		Detector R&D			0.20		0.20					
2.1 Program Manage	2.1.2 Engineering And R&D	US	UW	SC	LANDSMAN, Yael HAGAR		Science Support	0.25				0.25					
2.1 Program Manage	2.1.2 Engineering And R&D	US	UW	SE	LAUNDRIE, ANDREW		EMI, Instrumentation, I/F	0.25				0.25					
2.1 Program Manage	2.1.2 Engineering And R&D	US	UW	SE	LAUNDRIE, ANDREW		Engineering Support	0.65				0.65					
2.1 Program Manage	2.1.2 Engineering And R&D	US	UW	SE	SANDSTROM, PERRY		EMI, Instrumentation, I/F	0.25				0.25					
2.1 Program Manage	2.1.2 Engineering And R&D	US	UW	SE	SANDSTROM, PERRY		Engineering Support	0.25				0.25					
2.1 Program Manage	2.1.2 Engineering And R&D	US	UW	EN	UW EN		Engineering Support	0.10				0.10					
2.1 Program Manage	2.1.2 Engineering And R&D	US	UW	TE	UW TE		EMI, Instrumentation, I/F	0.25				0.25					
2.1 Program Manage	2.1.2 Engineering And R&D	US	US Total					2.00	0.30			2.30					
2.1 Program Manage	2.1.2 Engineering And R&D	Non-US	DESY	KE	NAHNHAUER, ROLF		Acoustic R&D Support			0.10		0.10					
2.1 Program Manage	2.1.2 Engineering And R&D	Non-US	EPFL	KE	EPFL KE		Acoustic R&D Support			0.10		0.10					
2.1 Program Manage	2.1.2 Engineering And R&D	Non-US	RWTH	SC	RWTH SC		Acoustic R&D Support			0.10		0.10					
2.1 Program Manage	2.1.2 Engineering And R&D	Non-US	UGENT	SC	UGENT SC		Acoustic R&D Support			0.05		0.05					
2.1 Program Manage	2.1.2 Engineering And R&D	Non-US	UGENT	GR	UGENT GR		Acoustic R&D Support			0.05		0.05					
2.1 Program Manage	2.1.2 Engineering And R&D	Non-US	ULB	KE	HANSON, KAEL ULB		EMI/R&D			0.10		0.10					
2.1 Program Manage	2.1.2 Engineering And R&D	Non-US	UU	KE	HALLGREN, ALLAN		Acoustic R&D Support			0.20		0.20					
2.1 Program Manage	2.1.2 Engineering And R&D	Non-US	WUPPERTAL	KE	HELBING, KLAUS		R&D Lead			0.10		0.10					
2.1 Program Manage	2.1.2 Engineering And R&D	Non-US	WUPPERTAL	KE	WUPPERTAL KE		RFI			0.10		0.10					
2.1 Program Manage	2.1.2 Engineering And R&D	Non-US	WUPPERTAL	PO	KARG, TIMO		Acoustic Lead			0.10		0.10					
2.1 Program Manage	2.1.2 Engineering And R&D	Non-US	Non-US Total							1.00		1.00					
2.1 Program Manage	2.1.2 Engineering And R&D	US	US Total					2.00	0.30	1.00		3.30					
2.1 Program Manage	2.1.3 Usap Support	US	UW	MA	PAULOS, ROBERT		USAP Support	0.25				0.25					
2.1 Program Manage	2.1.3 Usap Support	US	US Total					0.25				0.25					
2.1 Program Manage	2.1.3 Usap Support	US	US Total					0.25				0.25					
2.1 Program Manage	2.1.4 Education & Outreach	US	OSU	PO	OSU PO		Outreach			0.05		0.05					
2.1 Program Manage	2.1.4 Education & Outreach	US	PSU	KE	COWEN, DOUG		Education & Outreach			0.05		0.05					
2.1 Program Manage	2.1.4 Education & Outreach	US	PSU	KE	DEYOUNG, TYCE		Education & Outreach			0.05		0.05					
2.1 Program Manage	2.1.4 Education & Outreach	US	UMD	KE	UMD KE		E&O			0.10		0.10					
2.1 Program Manage	2.1.4 Education & Outreach	US	UW	AD	MALKUS, EVELYN		Education & Outreach Coordination	0.75				0.75					
2.1 Program Manage	2.1.4 Education & Outreach	US	UW	AD	UW AD		Teachers	0.25				0.25					
2.1 Program Manage	2.1.4 Education & Outreach	US	UWRF	KE	MADSEN, JIM		Teachers' program and UWRF Upward Bound			0.10		0.10					
2.1 Program Manage	2.1.4 Education & Outreach	US	UWRF	TE	UWRF TE		Teachers Program			0.15		0.15					
2.1 Program Manage	2.1.4 Education & Outreach	US	US Total					1.00	0.50			1.50					
2.1 Program Manage	2.1.4 Education & Outreach	US	US Total					1.00	0.50			1.50					
2.1 Program Manage	WBS L2 Total							6.97	3.72	3.85		14.53					

IceCube M&O Staffing Matrix by WBS and Tasks v8.2 2010.0430.xls

WBS L2	WBS L3	US / Non-US	Institution	Lab or Cat.	Names	Tasks				NSF M&O Core	U.S. IN-KIND	Non U.S. In-Kind	Grand Total				
						Cat.	Description	Cat.	Description					Cat.	Description	Cat.	Description
						AD	Administration	GR	Graduate Student					PO	Postdoctoral Scientist	TE	Technician
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientists	WO	Winterover										
						EN	Engineer	MA	Management	SE	Senior Engineer						
2.2 Detector Operatio	2.2 Detector Operations & Mail	US	LBLN	KE	NYGREN, DAVID R	Track Engine Trigger					0.10		0.10				
2.2 Detector Operatio	2.2 Detector Operations & Mail	US	UW	MA	LAITSCH, DENISE	Detector Operations Manager				0.88			0.88				
2.2 Detector Operatio	2.2 Detector Operations & Mail	US	US Total							0.88	0.10		0.98				
2.2 Detector Operatio	2.2 Detector Operations & Mail: WBS L3																
2.2 Detector Operatio	2.2.1 Run Coordination	US	UW	SC	KRASBERG, MARK	Winterovers coordinator				0.25			0.25				
2.2 Detector Operatio	2.2.1 Run Coordination	US	UW	WO	UW WO	Operate Detector (Winter-Overs)				3.00			3.00				
2.2 Detector Operatio	2.2.1 Run Coordination	US	US Total							3.25			3.25				
2.2 Detector Operatio	2.2.1 Run Coordination	Non-US	UC	GR	UC GR	Flasher Runs						0.10	0.10				
2.2 Detector Operatio	2.2.1 Run Coordination	Non-US	UBONN	PO	BOESER SEBASTIAN	Run coordinator						0.50	0.50				
2.2 Detector Operatio	2.2.1 Run Coordination	Non-US	Non-US Non-US Total								0.60		0.60				
2.2 Detector Operatio	2.2.1 Run Coordination	US	WBS L3							3.25	0.60		3.85				
2.2 Detector Operatio	2.2.10 Supernova Operations	Non-US	MAINZ	GR	KROLL, GÖSTA	SuperNova Operations						0.50	0.50				
2.2 Detector Operatio	2.2.10 Supernova Operations	Non-US	MAINZ	GR	WIEBE, KLAUS	SuperNova IceCube Live integration						0.10	0.10				
2.2 Detector Operatio	2.2.10 Supernova Operations	Non-US	Non-US Non-US Total								0.60		0.60				
2.2 Detector Operatio	2.2.10 Supernova Operations	US	WBS L3								0.60		0.60				
2.2 Detector Operatio	2.2.2 Data Acquisition	US	LBLN	CS	BEATTIE, KEITH S	Maintain DAQ Software Systems (incl. triggers, DOM SW, etc. up to Event Builder)				0.25			0.25				
2.2 Detector Operatio	2.2.2 Data Acquisition	US	LBLN	EN	STEZELBERGER, THORSTEN	Maintain DAQ Hardware (Hubs, DOR, Clocks, GPS,...)				0.15			0.15				
2.2 Detector Operatio	2.2.2 Data Acquisition	US	UD	KE	UD KE	DAQ Monitoring					0.05		0.05				
2.2 Detector Operatio	2.2.2 Data Acquisition	US	UW	SC	KRASBERG, MARK	DOM Cal Maintenance, DOM Monitoring snd Troubleshooting				0.35			0.35				
2.2 Detector Operatio	2.2.2 Data Acquisition	US	UW	SC	KRASBERG, MARK	Provide Real-time System Monitoring and Paging				0.20			0.20				
2.2 Detector Operatio	2.2.2 Data Acquisition	US	UW	SC	WENDT, CHRISTOPHER	DOM CAL Maintenance				0.25			0.25				
2.2 Detector Operatio	2.2.2 Data Acquisition	US	UW	SE	GLOWACKI, DAVID	Maintain DAQ Software Systems (incl. triggers, DOM SW, etc. up to Event Builder)				1.00			1.00				
2.2 Detector Operatio	2.2.2 Data Acquisition	US	UW	SE	SANDSTROM, PERRY	Maintain DAQ Hardware (Hubs, DOR, Clocks, GPS,...)				0.25			0.25				
2.2 Detector Operatio	2.2.2 Data Acquisition	US	UW	CS	JACOBSEN, JOHN (NPX)	Maintain DAQ Hardware (Hubs, DOR, Clocks, GPS,...)				0.15			0.15				
2.2 Detector Operatio	2.2.2 Data Acquisition	US	UW	GR	WEAVER, CHRISTOPHER	DOM CAL Maintenance					0.20		0.20				
2.2 Detector Operatio	2.2.2 Data Acquisition	US	US Total							2.60	0.25		2.85				
2.2 Detector Operatio	2.2.2 Data Acquisition	Non-US	DESY	SC	SULANKE, K.-H.	DAQ Firmware Support						0.15	0.15				
2.2 Detector Operatio	2.2.2 Data Acquisition	Non-US	ULB	KE	HANSON, K AEL ULB	Data Acquisition						0.20	0.20				
2.2 Detector Operatio	2.2.2 Data Acquisition	Non-US	Non-US Non-US Total								0.35		0.35				
2.2 Detector Operatio	2.2.2 Data Acquisition	US	WBS L3							2.60	0.25	0.35	3.20				
2.2 Detector Operatio	2.2.3 Online Filter (Pnf)	US	UMD	SC	BLAUFUSS, ERIK	Maintain PnF Software and Online Filters				0.20			0.20				
2.2 Detector Operatio	2.2.3 Online Filter (Pnf)	US	UMD	SC	SCHMIDT, TORSTEN	Maintain PnF Software and Online Filters				0.25			0.25				
2.2 Detector Operatio	2.2.3 Online Filter (Pnf)	US	UMD	GR	REDL, PETER	Online Filter Testing						0.25	0.25				
2.2 Detector Operatio	2.2.3 Online Filter (Pnf)	US	US Total							0.45	0.25		0.70				
2.2 Detector Operatio	2.2.3 Online Filter (Pnf)	US	WBS L3							0.45	0.25		0.70				
2.2 Detector Operatio	2.2.4 Sps Operations	US	UW	SE	SANDSTROM, PERRY	Maintain South Pole Computing Hardware Infrastructure and operating systems				0.25			0.25				
2.2 Detector Operatio	2.2.4 Sps Operations	US	UW	CS	SOUNDARAPANDIAN, KARTH	Maintain South Pole Computing Hardware Infrastructure and operating systems				0.75			0.75				
2.2 Detector Operatio	2.2.4 Sps Operations	US	UW	EN	WISNIEWSKI, PAUL	Networking and Security Maintenance				0.25			0.25				
2.2 Detector Operatio	2.2.4 Sps Operations	US	US Total							1.25			1.25				
2.2 Detector Operatio	2.2.4 Sps Operations	US	WBS L3							1.25			1.25				
2.2 Detector Operatio	2.2.5 Spts Operations	US	UW	SE	LAUNDRIE, ANDREW	Maintain South Pole Test System Hardware and Operating Systems				0.10			0.10				
2.2 Detector Operatio	2.2.5 Spts Operations	US	UW	CS	SOUNDARAPANDIAN, KARTH	Maintain South Pole Test System Hardware and Operating Systems				0.25			0.25				
2.2 Detector Operatio	2.2.5 Spts Operations	US	UW	EN	UW EN	Maintain South Pole Test System Hardware and Operating Systems				0.50			0.50				
2.2 Detector Operatio	2.2.5 Spts Operations	US	US Total							0.85			0.85				
2.2 Detector Operatio	2.2.5 Spts Operations	US	WBS L3							0.85			0.85				
2.2 Detector Operatio	2.2.6 Experiment Control	US	UW	CS	JACOBSEN, JOHN (NPX)	IceCube Live Maintenance and Upgrades				0.85			0.85				
2.2 Detector Operatio	2.2.6 Experiment Control	US	US Total							0.85			0.85				
2.2 Detector Operatio	2.2.6 Experiment Control	US	WBS L3							0.85			0.85				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	CAU	KE	JAPARIDZE, GEORGE	Monitoring shifts					0.02		0.02				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	GTECH	GR	GTECH GR	Monitoring shifts					0.03		0.03				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	KU	KE	BESSON, DAVE	Monitoring shifts					0.02		0.02				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	LBLN	SC	KIRYLUK, JOANNA	BadDomList					0.20		0.20				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	LBLN	PO	LBLN PO	Monitoring shifts					0.09		0.09				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	OSU	PO	OSU PO	Monitoring shifts					0.02		0.02				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	OSU	PO	ROTT, CARSTEN	Maintain good run list					0.20		0.20				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	OSU	GR	DAVIS, JAMES	Monitoring shifts					0.01		0.01				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	PSU	PO	LAFEBRE, SVEN	Monitoring shifts					0.03		0.03				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	PSU	GR	PSU GR	Monitoring shifts					0.03		0.03				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	SUBR	SC	TER-ANTONYAN, SAMVEL	Detector Monitoring					0.02		0.02				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	UA	GR	XU, DONGLIAN	Monitoring shifts					0.03		0.03				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	UAA	KE	RAWLINS, KATHERINE	Monitoring shifts					0.02		0.02				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	UCB	SC	FILIMONOV, KIRILL	Coordinate Monitoring					0.50		0.50				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	UCB	SC	UCB SC	Monitoring shifts					0.02		0.02				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	UCB	GR	UCB GR	Monitoring shifts					0.02		0.02				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	UCI	PO	SILVERSTRI, ANDREA	Monitoring shifts					0.01		0.01				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	UCI	GR	HANSON, JORDAN	Monitoring shifts					0.01		0.01				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	UD	PO	KUWABARA, TAKAO	Temp. & Pressure atmospheric monitoring					0.25		0.25				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	UMD	PO	UMD PO	Monitoring shifts					0.03		0.03				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	UMD	GR	UMD GR	Monitoring shifts					0.06		0.06				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	UW	PO	UW PO	Monitoring shifts					0.12		0.12				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	UW	GR	BAKER, MICHAEL	Stability					0.10		0.10				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	UW	GR	UW GR	Monitoring shifts					0.12		0.12				
2.2 Detector Operatio	2.2.7 Detector Monitoring	US	US Total							1.94			1.94				

IceCube M&O Staffing Matrix by WBS and Tasks v8.2 2010.0430.xls

WBS L2	WBS L3	US / Non-US	Institution	Lab or Cat.	Names	Tasks				NSF M&O Core	U.S. IN-KIND	Non U.S. In-Kind	Grand Total	
						Cat.	Description	Cat.	Description					Cat.
					AD Administration	GR Graduate Student	PO Postdoctoral Scientist	TE Technician						
					CS Computer Science Eng.	KE Key Personnel/Faculty	SC Scientist	WO Wintertover						
					EN Engineer	MA Management	SE Senior Engineer							
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	CHIBA	GR	CHIBA GR						0.03	0.03		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	DESY	SC	DESY SC						0.06	0.06		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	DESY	SC	BENABDERRAHMANE, LOFT						0.20	0.20		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	DESY	GR	DESY GR						0.12	0.12		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	DTMND	GR	DTMD GR						0.03	0.03		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	EPFL	GR	EPFL GR						0.03	0.03		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	HUMB	SC	HUMB SC						0.03	0.03		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	MPI	GR	MPI GR						0.05	0.05		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	RWTH	GR	RWTH GR						0.09	0.09		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	SU	GR	SU GR						0.06	0.06		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	UC	GR	UC GR						0.02	0.02		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	UGENT	GR	UGENT GR						0.03	0.03		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	ULB	GR	ULB GR						0.03	0.03		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	UMH	GR	KOHNEN, GEORGE						0.03	0.03		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	UOX	KE	SARKAR, SUBIR						0.02	0.02		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	UU	GR	UU GR						0.03	0.03		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	VUB	GR	VUB GR						0.03	0.03		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	UBONN	GR	UBONN GR						0.03	0.03		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	UBOCHUM	GR	UBOCHUM GR						0.03	0.03		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	WUPPERTAL	GR	WUPPERTAL GR						0.15	0.15		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	WUPPERTAL	GR	WUPPERTAL GR						0.45	0.45		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	MAINZ	GR	UM GR						0.05	0.05		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US	MAINZ	GR	SCHATTO, KAI						0.35	0.35		
2.2 Detector Operatio	2.2.7 Detector Monitoring	Non-US Non-US Total									1.95	1.95		
2.2 Detector Operatio	2.2.7 Detector Monitoring	WBS L3									1.94	1.95	3.89	
2.2 Detector Operatio	2.2.8 Detector Calibration	US	GTECH	GR	DAUGHMETEE, JACOB						0.20	0.20		
2.2 Detector Operatio	2.2.8 Detector Calibration	US	LBLN	SC	KIRYLUK, JOANNA						0.10	0.10		
2.2 Detector Operatio	2.2.8 Detector Calibration	US	UA	KE	WILLIAMS, DAWN						0.15	0.15		
2.2 Detector Operatio	2.2.8 Detector Calibration	US	UA	PO	ZARZHITZKY, PAVEL						0.20	0.20		
2.2 Detector Operatio	2.2.8 Detector Calibration	US	UA	GR	XU, DONGLIAN						0.25	0.25		
2.2 Detector Operatio	2.2.8 Detector Calibration	US	UCB	SC	WOSCHNAGG, KURT						0.15	0.15		
2.2 Detector Operatio	2.2.8 Detector Calibration	US	UCB	GR	UCB GR						0.10	0.10		
2.2 Detector Operatio	2.2.8 Detector Calibration	US	UW	SC	WENDT, CHRISTOPHER						0.28	0.28		
2.2 Detector Operatio	2.2.8 Detector Calibration	US	UW	GR	GLADSTONE, LAURA						0.15	0.15		
2.2 Detector Operatio	2.2.8 Detector Calibration	US	UW	GR	SANTANDER, MARCOS						0.20	0.20		
2.2 Detector Operatio	2.2.8 Detector Calibration	US US Total									0.28	1.50	1.78	
2.2 Detector Operatio	2.2.8 Detector Calibration	Non-US	DESY	GR	ACHIM STOESSL						0.20	0.20		
2.2 Detector Operatio	2.2.8 Detector Calibration	Non-US	DESY	GR	EIKE MIDDELL						0.10	0.10		
2.2 Detector Operatio	2.2.8 Detector Calibration	Non-US Non-US Total									0.30	0.30		
2.2 Detector Operatio	2.2.8 Detector Calibration	WBS L3									0.28	1.50	2.08	
2.2 Detector Operatio	2.2.9 Ictop Operations	US	UD	SC	UD SC						1.00	1.00		
2.2 Detector Operatio	2.2.9 Ictop Operations	US	UWRF	KE	SPICZAK, GLENN						0.03	0.03		
2.2 Detector Operatio	2.2.9 Ictop Operations	US	UWRF	SC	TAMBURRO, ALESSIO						0.03	0.03		
2.2 Detector Operatio	2.2.9 Ictop Operations	US US Total									1.00	0.05	1.05	
2.2 Detector Operatio	2.2.9 Ictop Operations	Non-US	HUMB	SC	WALDENMAIER, TILO						0.10	0.10		
2.2 Detector Operatio	2.2.9 Ictop Operations	Non-US Non-US Total									0.10	0.10		
2.2 Detector Operatio	2.2.9 Ictop Operations	WBS L3									1.00	0.05	0.10	1.15
2.2 Detector Operatio	2.3.1 Core Software	WBS L2 Total									11.40	4.09	3.90	19.39
2.3 Computing And D	2.3.1 Core Software	US	UMD	SC	SCHMIDT, TORSTEN						0.50	0.50		
2.3 Computing And D	2.3.1 Core Software	US	UMD	CS	UMD CS						0.25	0.25		
2.3 Computing And D	2.3.1 Core Software	US	UMD	GR	UMD GR						0.25	0.25		
2.3 Computing And D	2.3.1 Core Software	US	UMD	GR	EHRlich, RALF						0.50	0.50		
2.3 Computing And D	2.3.1 Core Software	US	UMD	TE	STRASZHEIM, TROY						0.88	0.88		
2.3 Computing And D	2.3.1 Core Software	US	UW	TE	DIAZ-VELEZ, JUAN CARLOS						0.80	0.80		
2.3 Computing And D	2.3.1 Core Software	US	UW	TE	FADIRAN, OLADIPO						0.20	0.20		
2.3 Computing And D	2.3.1 Core Software	US	UW	TE	UW TE						0.30	0.30		
2.3 Computing And D	2.3.1 Core Software	US US Total									2.93	0.75	3.68	
2.3 Computing And D	2.3.1 Core Software	Non-US	RWTH	SC	RWTH SC						0.10	0.10		
2.3 Computing And D	2.3.1 Core Software	Non-US	RWTH	GR	RWTH GR						0.15	0.15		
2.3 Computing And D	2.3.1 Core Software	Non-US	ULB	PO	MAROTTA, ALBERTO						0.20	0.20		
2.3 Computing And D	2.3.1 Core Software	Non-US Non-US Total									0.45	0.45		
2.3 Computing And D	2.3.1 Core Software	WBS L3									2.93	0.75	0.45	4.13
2.3 Computing And D	2.3.2 Data Storage & Transfer	US	UW	EN	MACKENZIE, CYNTHIA						0.50	0.50		
2.3 Computing And D	2.3.2 Data Storage & Transfer	US	UW	AD	RICHARDS, JOHN						1.00	1.00		
2.3 Computing And D	2.3.2 Data Storage & Transfer	US	UW	TE	FADIRAN, OLADIPO						0.20	0.20		
2.3 Computing And D	2.3.2 Data Storage & Transfer	US	UW	TE	MCGUIRE, PAUL						0.50	0.50		
2.3 Computing And D	2.3.2 Data Storage & Transfer	US	UW	TE	UW TE						0.30	0.30		
2.3 Computing And D	2.3.2 Data Storage & Transfer	US	UW	TE	MEADE, PATRICK						0.50	0.50		
2.3 Computing And D	2.3.2 Data Storage & Transfer	US US Total									3.00	3.00		
2.3 Computing And D	2.3.2 Data Storage & Transfer	WBS L3									3.00	0.75	0.45	3.00

IceCube M&O Staffing Matrix by WBS and Tasks v8.2 2010.0430.xls

WBS L2	WBS L3	US / Non-US	Institution	Lab or Cat.	Names	Tasks	NSF M&O Core	U.S. IN-KIND	Non U.S. In-Kind	Grand Total								
											Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description
											AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientists	WO	Winterover											
EN	Engineer	MA	Management	SE	Senior Engineer													
2.3 Computing And D	2.3.3 Computing Resources	US	PSU	PO	PSU PO	Coordination and Support for Grid and distributed computing	0.25			0.25								
2.3 Computing And D	2.3.3 Computing Resources	US	SUBR	SC	TER-ANTONYAN, SAMVEL	LONI Grid computing		0.30		0.30								
2.3 Computing And D	2.3.3 Computing Resources	US	UMD	TE	UMD TE	Coordination and Support for Grid and distributed computing	0.25			0.25								
2.3 Computing And D	2.3.3 Computing Resources	US	UW	EN	BARNET, STEVE	0.75 Maintain Core High Performance Computing Systems												
2.3 Computing And D	2.3.3 Computing Resources	US	UW	EN	BOGEN, DAVID	0.25 Coordination and Support for Grid and distributed computing	1.00			1.00								
2.3 Computing And D	2.3.3 Computing Resources	US	UW	EN	WISNIEWSKI, PAUL	Maintain Data Center Infrastructure	1.00			1.00								
2.3 Computing And D	2.3.3 Computing Resources	US	UW	TE	MCGUIRE, PAUL	Maintain Data Center Networking and Security	0.75			0.75								
2.3 Computing And D	2.3.3 Computing Resources	US	UW	TE	MCGUIRE, PAUL	Maintain Data Center Infrastructure	0.50			0.50								
2.3 Computing And D	2.3.3 Computing Resources	US	UW	TE	UW TE	Maintain Core High Performance Computing Systems	0.44			0.44								
2.3 Computing And D	2.3.3 Computing Resources	US	US Total				4.19	0.30		4.49								
2.3 Computing And D	2.3.3 Computing Resources	Non-US	DESY	GR	KISLAT, FABIAN	Reconstruction Coordinator (acting), Maintain Reconstruction Framework			0.15	0.15								
2.3 Computing And D	2.3.3 Computing Resources	Non-US	DESY	TE	DESY TE	European Data Center -Distributed Computing and Labor			2.00	2.00								
2.3 Computing And D	2.3.3 Computing Resources	Non-US	DTMND	SC	PIELOTH, DAMIAN	Coordinate GRID computing in Germany			0.25	0.25								
2.3 Computing And D	2.3.3 Computing Resources	Non-US	SU	SC	SU SC	Computing Resources			0.50	0.50								
2.3 Computing And D	2.3.3 Computing Resources	Non-US	UMH	GR	KOHNNEN, GEORGE	IC database management			0.30	0.30								
2.3 Computing And D	2.3.3 Computing Resources	Non-US	Non-US Non-US Total						3.20	3.20								
2.3 Computing And D	2.3.3 Computing Resources	US	2.3.3 Computing Resources WBS L3				4.19	0.30	3.20	7.69								
2.3 Computing And D	2.3.4 Data Production Process	US	UW	PO	TOSCANO, SIMONA	Cascade data processing	0.35			0.35								
2.3 Computing And D	2.3.4 Data Production Process	US	UW	TE	MEADE, PATRICK	0.2 Unpacking, Decoding and Calibration of Raw Data in the North (Level1) 0.3 Run Common Reconstructions on UW IceCube Compute Cluster (Level2)	0.50			0.50								
2.3 Computing And D	2.3.4 Data Production Process	US	US Total				0.50	0.35		0.85								
2.3 Computing And D	2.3.4 Data Production Process	Non-US	RWTH	GR	SCHUKRAFT, ANNE	Photonics Production			0.25	0.25								
2.3 Computing And D	2.3.4 Data Production Process	Non-US	Non-US Non-US Total						0.25	0.25								
2.3 Computing And D	2.3.4 Data Production Process	US	2.3.4 Data Production Process WBS L3				0.50	0.35	0.25	1.10								
2.3 Computing And D	2.3.5 Simulation Production	US	GTECH	PO	TEPE, ANDREAS	Simulation Production			0.20	0.20								
2.3 Computing And D	2.3.5 Simulation Production	US	LBNL	SC	KIRYLUK,JOANNA	Simulation Production on PDSF			0.20	0.20								
2.3 Computing And D	2.3.5 Simulation Production	US	PSU	PO	PSU PO	Simulation Production			0.17	0.17								
2.3 Computing And D	2.3.5 Simulation Production	US	UD	PO	HUSSAIN, SHAHID	IceTop Simulation Production			0.15	0.15								
2.3 Computing And D	2.3.5 Simulation Production	US	UMD	GR	CHRISTY, BRIAN	Simulation Production coordination			0.25	0.25								
2.3 Computing And D	2.3.5 Simulation Production	US	UW	SC	DESIATI, PAOLO	Coordination of Simulation Production	0.70			0.70								
2.3 Computing And D	2.3.5 Simulation Production	US	UW	PO	HOSHINA, K	Photon prop. Calibration			0.10	0.10								
2.3 Computing And D	2.3.5 Simulation Production	US	UW	GR	EISCH, JONATHAN	IceTop Simulation Production			0.30	0.30								
2.3 Computing And D	2.3.5 Simulation Production	US	UW	TE	FADIRAN, OLADIPO	0.30 Coordination of Simulation Production 0.30 Maintain production configurations, manage test production and maintain web portal.	0.60			0.60								
2.3 Computing And D	2.3.5 Simulation Production	US	US Total				1.30	1.37		2.67								
2.3 Computing And D	2.3.5 Simulation Production	Non-US	DESY	KE	WALTER, MICHAEL	Simulation Production Cluster			0.20	0.20								
2.3 Computing And D	2.3.5 Simulation Production	Non-US	DESY	SC	BERGMANN, JENS	Simulation Production Cluster			0.25	0.25								
2.3 Computing And D	2.3.5 Simulation Production	Non-US	DESY	GR	DESY GR	Simulation Production Cluster			0.15	0.15								
2.3 Computing And D	2.3.5 Simulation Production	Non-US	DTMND	GR	DTMD GR	Simulation Production			0.40	0.40								
2.3 Computing And D	2.3.5 Simulation Production	Non-US	RWTH	SC	RWTH SC	Simulation Production on cluster/GRID			0.10	0.10								
2.3 Computing And D	2.3.5 Simulation Production	Non-US	RWTH	GR	RWTH GR	Simulation Production on cluster/GRID			0.85	0.85								
2.3 Computing And D	2.3.5 Simulation Production	Non-US	SU	GR	JOHANSSON, HENRIK	GRID/Simulation production & development			0.20	0.20								
2.3 Computing And D	2.3.5 Simulation Production	Non-US	ULB	PO	MAROTTA, ALBERTO	Computer Cluster - simulation			0.30	0.30								
2.3 Computing And D	2.3.5 Simulation Production	Non-US	VUB	PO	STRAHLER, ERIK	Vetting new sim. releases with test datasets & compare with experimental data at low level			0.50	0.50								
2.3 Computing And D	2.3.5 Simulation Production	Non-US	ALBERTA	KE	GRANT, DARREN	WestGrid computing			0.10	0.10								
2.3 Computing And D	2.3.5 Simulation Production	Non-US	WUPPERTAL	PO	KARG, TIMO	Simulation Production			0.20	0.20								
2.3 Computing And D	2.3.5 Simulation Production	Non-US	WUPPERTAL	GR	WUPPERTAL GR	Simulation Production			0.20	0.20								
2.3 Computing And D	2.3.5 Simulation Production	Non-US	MAINZ	SC	AHRENS, JENS	Simulation Production			0.15	0.15								
2.3 Computing And D	2.3.5 Simulation Production	Non-US	MAINZ	GR	WIEBE, KLAUS	Simulation Production			0.30	0.30								
2.3 Computing And D	2.3.5 Simulation Production	Non-US	Non-US Non-US Total						3.90	3.90								
2.3 Computing And D	2.3.5 Simulation Production	US	2.3.5 Simulation Production WBS L3				1.30	1.37	3.90	6.57								
2.3 Computing And D	2.3.5 Simulation Production	US	2.3.5 Simulation Production WBS L2 Total				11.92	2.77	7.80	22.48								
2.4 Triggering And Fil	2.4.1 Tft Coordination	US	PSU	KE	COWEN, DOUG	TFT Board member			0.10	0.10								
2.4 Triggering And Fil	2.4.1 Tft Coordination	US	UD	KE	SECKEL, DAVID	TFT Board member			0.10	0.10								
2.4 Triggering And Fil	2.4.1 Tft Coordination	US	UMD	SC	BLAUFUSS, ERIK	Coordinate process for filter requests, bandwidth	0.30			0.30								
2.4 Triggering And Fil	2.4.1 Tft Coordination	US	UMD	GR	UMD GR	Prepare datasets for filter testing and common MC datasets for testing			0.20	0.20								
2.4 Triggering And Fil	2.4.1 Tft Coordination	US	UW	KE	MONTARULI, TERESA	TFT Board member			0.10	0.10								
2.4 Triggering And Fil	2.4.1 Tft Coordination	US	US Total				0.30	0.50		0.80								
2.4 Triggering And Fil	2.4.1 Tft Coordination	Non-US	ULB	KE	HANSON, KAELE	TFT Board member			0.10	0.10								
2.4 Triggering And Fil	2.4.1 Tft Coordination	Non-US	UU	KE	DE LOS HEROS, CARLOS	TFT Board member			0.10	0.10								
2.4 Triggering And Fil	2.4.1 Tft Coordination	Non-US	UBONN	KE	KOWALSKI, MAREK	TFT Board member			0.10	0.10								
2.4 Triggering And Fil	2.4.1 Tft Coordination	Non-US	Non-US Non-US Total						0.30	0.30								
2.4 Triggering And Fil	2.4.1 Tft Coordination	US	2.4.1 Tft Coordination WBS L3				0.30	0.50	0.30	1.10								
2.4 Triggering And Fil	2.4.2 Physics Filters	US	LBNL	KE	KLEIN,SPENCER	Co. Chair of Cascade WG			0.25	0.25								
2.4 Triggering And Fil	2.4.2 Physics Filters	US	OSU	GR	DAVIS, JAMES	Vertical Events Filter			0.15	0.15								
2.4 Triggering And Fil	2.4.2 Physics Filters	US	PSU	KE	COWEN, DOUG	Tau WG Chair			0.25	0.25								
2.4 Triggering And Fil	2.4.2 Physics Filters	US	PSU	KE	DEYOUNG, TYCE	Deep Core WG - Co Chair			0.25	0.25								
2.4 Triggering And Fil	2.4.2 Physics Filters	US	PSU	PO	KOSKINEN, JASON	develop and verify Deep Core filters			0.18	0.18								
2.4 Triggering And Fil	2.4.2 Physics Filters	US	UCB	SC	WOSCHNAGG, KURT	Diffuse / atmosnu WG chair			0.25	0.25								
2.4 Triggering And Fil	2.4.2 Physics Filters	US	UD	PO	BERGHAUS, PATRICK - UD	imuon channel WG Co. Chair			0.25	0.25								
2.4 Triggering And Fil	2.4.2 Physics Filters	US	UMD	SC	BLAUFUSS, ERIK	GRB WG Chair			0.25	0.25								
2.4 Triggering And Fil	2.4.2 Physics Filters	US	UMD	PO	OLIVAS, ALEX	exotics- WG chair			0.25	0.25								
2.4 Triggering And Fil	2.4.2 Physics Filters	US	UW	SC	MARUYAMA, REINA	Supernova WG Chair			0.25	0.25								
2.4 Triggering And Fil	2.4.2 Physics Filters	US	UW	PO	AGUILAR SANCHEZ JUAN AN	muon filter			0.15	0.15								
2.4 Triggering And Fil	2.4.2 Physics Filters	US	UW	PO	TOSCANO, SIMONA	Cascade Online filter			0.15	0.15								
2.4 Triggering And Fil	2.4.2 Physics Filters	US	UW	GR	GLADSTONE, LAURA	Deep Core online Filter			0.15	0.15								
2.4 Triggering And Fil	2.4.2 Physics Filters	US	UW	GR	WHITEHORN, NATHAN	GRB Filter			0.15	0.15								
2.4 Triggering And Fil	2.4.2 Physics Filters	US	US Total				2.93			2.93								

IceCube M&O Staffing Matrix by WBS and Tasks v8.2 2010.0430.xls

WBS L2	WBS L3	US / Non-US	Institution	Lab or Cat.	Names	Tasks				NSF M&O Core	U.S. IN-KIND	Non U.S. In-Kind	Grand Total				
						Cat.	Description	Cat.	Description					Cat.	Description	Cat.	Description
						AD	Administration	GR	Graduate Student					PO	Postdoctoral Scientist	TE	Technician
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover										
EN	Engineer	MA	Management	SE	Senior Engineer												
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	CHIBA	KE	YOSHIDA, SHIGERU	EHE WG Lead				0.25	0.25						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	CHIBA	GR	ONO, MIO	EHE Filters				0.15	0.15						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	DESY	GR	FRANKE, ROBERT	Online Filter for Alerts				0.10	0.10						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	DESY	GR	FRANKE, ROBERT	Rate Data Bank South Pole				0.10	0.10						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	HUMB	SC	WALDENMAIER, TILO	CR-WG Lead				0.25	0.25						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	HUMB	SC	WALDENMAIER, TILO	CR-WG Filter				0.15	0.15						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	RWTH	PO	BOERSMA, DAVID RWTH	Gal Cen Filter (Moon Filter)				0.15	0.15						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	RWTH	PO	BOERSMA, DAVID RWTH	muon channel WG Co. Chair				0.25	0.25						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	SU	KE	HULTH, PER OLOF	Low Energy DeepCore WG Lead				0.25	0.25						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	SU	SC	SEO, SEON-HEE	Develop & verify filters				0.05	0.05						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	SU	SC	FINLEY, CHAD SU	WG Lead				0.25	0.25						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	SU	GR	JOHANSSON, HENRIK	UHE Trigger & Filter				0.10	0.10						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	SU	GR	DANNINGER, MATTIAS	WIMP Trigger & Filter				0.15	0.15						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	ULB	GR	ULB GR	Study of Tau Filters at South Pole				0.10	0.10						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	UU	KE	DE LOS HEROS, CARLOS	WIMP WG Lead				0.25	0.25						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	UU	GR	ENGDEGARD, OLLE	Online filter development & testing				0.15	0.15						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	VUB	KE	VUB KE	Verify Filters				0.20	0.20						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	VUB	PO	VUB PO	Verify Filters				0.30	0.30						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	UBONN	KE	KOWALSKI, MAREK	Point source WG Co-Lead				0.25	0.25						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	UBONN	KE	KOWALSKI, MAREK	cascaes WG Co-Lead				0.25	0.25						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	UBONN	GR	PANKNIN, SEBASTIAN	IC-59 Pole Filters				0.05	0.05						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	UBONN	GR	FRANCKOWIAK, ANNA	Alert System for follow-up				0.20	0.20						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	BARBADOS	KE	SEUNARINE, SURUJ	Work on cascade filter				0.15	0.15						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US	WUPPERTAL	GR	WUPPERTAL GR	New SUSY Filter				0.20	0.20						
2.4 Triggering And Fil	2.4.2 Physics Filters	Non-US Non-US Total								4.30	4.30						
2.4 Triggering And Fil	2.4.2 Physics Filters	WBS L3								2.93	4.30	7.23					
2.4 Triggering And F	WBS L2 Total									0.30	3.43	4.60	8.33				
2.5 Data Quality, Rec	2.5 Data Quality, Reconstructio	Non-US	UC	SC	GROSS, ANDREAS	Data Quality, Reco. & Sim. Tools Coordinator ("Low-level" Analysis Coordinator)				0.50	0.50						
2.5 Data Quality, Rec	2.5 Data Quality, Reconstructio	Non-US	BARBADOS	KE	SEUNARINE, SURUJ	Analysis of flasher runs for inice calibration of saturation, and flasher and Standard Candle runs for absolute energy calibration for cascades.				0.15	0.15						
2.5 Data Quality, Rec	2.5 Data Quality, Reconstructio	Non-US Non-US Total								0.65	0.65						
2.5 Data Quality, Rec	2.5 Data Quality, Reconstructio	WBS L3								0.00	0.65	0.65					
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	LBNL	PO	BUITIN,STIJN	DOM simulator & calibrator				0.35	0.35						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	LBNL	PO	GERHARDT, LISA	Simulation Programs: cmc				0.20	0.20						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	PSU	PO	TOALE, PATRICK	maintain tau simulation tools				0.10	0.10						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	SUBR	KE	FAZELY, ALI	GEANT Simulation				0.15	0.15						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	SUBR	KE	IMLAY, RICHARD	Simulation Programs				0.15	0.15						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UA	PO	ZARZHITZKY, PAVEL	Simulation verification				0.30	0.30						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UAA	KE	RAWLINS, KATHERINE	SPASE / IceTop simulation; flat n-tuple				0.40	0.40						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UCB	SC	WOSCHNAGG, KURT	Maintain and Verify Simulation of Photon Propagation and update Ice Properties				0.50	0.50						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UD	PO	HUSSAIN, SHAHID	Ice Properties Simulation				0.30	0.30						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UD	GR	RUZYBAEV, BAKHTIYAR	Ice Properties Simulation				0.30	0.30						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UD	GR	XU, CHEN	Simulation Programs: sim-services				0.30	0.30						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UMD	PO	OLIVAS, ALEX	Simulation Software Programs coordinator				0.40	0.40						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UMD	PO	WISSING, HENRIKE	Maintain Detector Simulation (IceSim)				0.25	0.25						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UMD	GR	REDL, PETER	Maintain Detector Simulation (IceSim)				0.25	0.25						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UW	SC	CHIRKIN, DMITRY	Simulation Programs: mmc/mmc-icetray and ucr-icetray				0.20	0.20						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UW	SC	HILL, GARY	Maintain and Verify Simulation of Photon Propagation and update Ice Properties				0.25	0.25						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UW	PO	ABBASI, RASHA	DST data checking				0.10	0.10						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UW	PO	AGUILAR SANCHEZ JUAN AN	low level moun data verification (data/mc)				0.10	0.10						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UW	PO	UW PO	Maintain IceSim				0.40	0.40						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UW	GR	WHITEHORN, NATHAN	Photonics tables				0.10	0.10						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UW	GR	SANTANDER, MARCOS	Flasher Analysis				0.15	0.15						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US	UW	TE	DIAZ-VELEZ, JUAN CARLOS	Maintain Simulation Production Software				0.20	0.20						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	US Total								1.35	4.10	5.45					
2.5 Data Quality, Rec	2.5.1 Simulation Programs	Non-US	DTMND	GR	MILKE, NATALIE	Simulation Programs: noise-generator				0.20	0.20						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	Non-US	SU	KE	WALCK, CHRISTIAN	Photonics/Simulation Work				0.05	0.05						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	Non-US	SU	KE	HULTQVIST, KLAS	Photonics/Simulation Work, hit-maker				0.15	0.15						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	Non-US	SU	SC	FINLEY, CHAD SU	Simulation Programs: neutrino-generator				0.20	0.20						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	Non-US	UGENT	SC	UGENT SC	Support IceTop Simulations, IceTop Calibrations, IceTop Reconstruction				0.10	0.10						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	Non-US	UGENT	GR	UGENT GR	Support IceTop Simulations, IceTop Calibrations, IceTop Reconstruction				0.40	0.40						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	Non-US	UOX	KE	SARKAR, SUBIR	Yellow Book-maintenance				0.10	0.10						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	Non-US	UU	PO	MILLER, JONATHAN	Simulation Programs: photonics				0.20	0.20						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	Non-US	UBOCHUM	PO	DREYER, JENS	Update MMC from Java to C++				0.25	0.25						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	Non-US	UBOCHUM	PO	DREYER, JENS	Simulation Programs: neutrino-generator				0.20	0.20						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	Non-US	UBOCHUM	GR	OLIVO, MARTINO	Update MMC from Java to C++				0.25	0.25						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	Non-US Non-US Total								2.10	2.10						
2.5 Data Quality, Rec	2.5.1 Simulation Programs	WBS L3								1.35	4.10	2.10	7.55				
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	US	LBNL	KE	KLEIN,SPENCER	co-chair of Diffuse WG				0.25	0.25						
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	US	PSU	PO	KOSKINEN, JASON	Coordinate Deep Core reconstruction for production				0.12	0.12						
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	US	PSU	PO	LAFEBRE, SVEN	develop starting track reconstruction				0.19	0.19						
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	US	PSU	GR	HA, CHANG HYON	develop starting track reconstruction				0.13	0.13						
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	US	SUBR	KE	FAZELY, ALI	Reconstruction/ Analysis tools				0.15	0.15						
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	US	SUBR	KE	IMLAY, RICHARD	Reconstruction/ Analysis tools				0.15	0.15						
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	US	UMD	PO	WISSING, HENRIKE	develop & test reconstruction				0.25	0.25						
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	US	UMD	GR	REDL, PETER	Reconstruction/ Analysis tools				0.25	0.25						
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	US	UW	SC	CHIRKIN, DMITRY	Direct photon tracking / iceproperties calibration 0.3 ; FE/pulse extractor 0.1 ; reco software 0.1				0.30	0.30						
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	US	UW	GR	DUMM, JONATHAN	Reconstruction Tools				0.15	0.15						
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	US	UW	GR	RODRIGUES, JOAO-PAULO	Supernova simulation / moun energy reconstruction				0.20	0.20						
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	US	UWRF	KE	MADSEN, JIM	Cosmic ray shower simulations and reconstruction				0.10	0.10						
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	US	UWRF	SC	TAMBURRO, ALESSIO	Shower simulations, TankTop simulation				0.20	0.20						
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	US Total								2.43	2.43						

IceCube M&O Staffing Matrix by WBS and Tasks v8.2 2010.0430.xls

WBS L2	WBS L3	US / Non-US	Institution	Lab or Cat.	Names			Tasks			NSF M&O Core	U.S. IN-KIND	Non U.S. In-Kind	Grand Total
					Cat.	Description		Cat.	Description					
					AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist				
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientists	WO	Winterover							
EN	Engineer	MA	Management	SE	Senior Engineer									
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	Non-US	CHIBA	KE	CHIBA KE			Maintain Romeo, EHE Simulations			0.20	0.20		
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	Non-US	CHIBA	SC	CHIBA SC			Maintain Romeo, EHE Simulations, Maintain reconstruction projects (Portia), MC/Data comparison for EHE-filtered and IceTop events, Standard Candle Analysis			0.20	0.20		
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	Non-US	CHIBA	GR	CHIBA GR			Improve the Ice Model, Afterpulse Simulator, Standard Candle Analysis, Maintain reconstruction projects (Ophelia, ehe-star)			0.20	0.20		
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	Non-US	DESY	GR	MIDDELL, EIKE			Cascade Reconstruction			0.30	0.30		
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	Non-US	EPFL	SC	EPFL SC			SLF, Low Energy, Energy reconstruction (development)			0.25	0.25		
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	Non-US	HUMB	SC	HUMB SC			Reconstruction/ Analysis tools			0.10	0.10		
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	Non-US	RWTH	GR	RWTH GR			Reconstruction Software			0.30	0.30		
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	Non-US	RWTH	GR	WALLRAFF, MARIUS			New Feature Extractor			0.50	0.50		
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	Non-US	SU	SC	SEO, SEON-HEE			Photonics/Simulation Work			0.15	0.15		
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	Non-US	UBONN	GR	UBONN GR			Reconstruction/ Analysis tools			0.20	0.20		
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	Non-US	ALBERTA	KE	GRANT, DARREN			Maintenance of IceCube-Photonics interface			0.10	0.10		
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	Non-US	ALBERTA	PO	ALBERTA, PO			Maintenance of IceCube-Photonics interface			0.30	0.30		
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	Non-US	WUPPERTAL	GR	WUPPERTAL GR			New SUSY Reconstruction, Simulation, Propagation, Monopole, Photonics			0.50	0.50		
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	Non-US	MAINZ	GR	LÜNEMANN, JAN			Reconstruction Tools			0.20	0.20		
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis	Non-US Non-US Total									3.50	3.50		
2.5 Data Quality, Rec	2.5.2 Reconstruction/ Analysis WBS L3										2.43	3.50	5.93	
2.5 Data Quality, Rec	2.5.3 Data Quality	US	OSU	PO	ROTT, CARSTEN			Data Quality			0.10	0.10		
2.5 Data Quality, Rec	2.5.3 Data Quality	US	UA	KE	WILLIAMS, DAWN			Data Quality Lead			0.15	0.15		
2.5 Data Quality, Rec	2.5.3 Data Quality	US US Total									0.25	0.25		
2.5 Data Quality, Rec	2.5.3 Data Quality	Non-US	MPI	PO	MPI PO			Data Quality & DeepCore			0.60	0.60		
2.5 Data Quality, Rec	2.5.3 Data Quality	Non-US Non-US Total									0.60	0.60		
2.5 Data Quality, Rec	2.5.3 Data Quality WBS L3										0.25	0.60	0.85	
2.5 Data Quality, Rec	2.5.4 Offline Data Processing	US	UW	SC	HILL, GARY			Offline processing			0.25	0.25		
2.5 Data Quality, Rec	2.5.4 Offline Data Processing	US	UW	GR	DUMM, JONATHAN			Offline Data Processing			0.15	0.15		
2.5 Data Quality, Rec	2.5.4 Offline Data Processing	US US Total									0.25	0.15	0.40	
2.5 Data Quality, Rec	2.5.4 Offline Data Processing WBS L3										0.25	0.15	0.40	
2.5 Data Quality, Rec WBS L2 Total											1.60	6.93	6.85	15.38
											32.18	20.93	27.00	80.10