

IceCube M&O Staffing Matrix sort by WBS and Tasks v9.0 2010.0915

WBS L2	WBS L3	US / Non-US	Institution	Labor 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	TE Technician				
2.1 Program Management	2.1.1 Administration	US	GTECH	KE	TABOADA, IGNACIO		Chair of speakers' committee			0.25		0.25
2.1 Program Management	2.1.1 Administration	US	LBNL	KE	KLEIN, SPENCER		Supervise LBNL effort	0.00				0.00
2.1 Program Management	2.1.1 Administration	US	LBNL	KE	KLEIN, SPENCER		Publications Comm. Member		0.10			0.10
2.1 Program Management	2.1.1 Administration	US	PSU	KE	COWEN, DOUG		ExecCom member		0.20			0.20
2.1 Program Management	2.1.1 Administration	US	UA	KE	TOALE, PATRICK		Software Coordinator		0.75			0.75
2.1 Program Management	2.1.1 Administration	US	UCB	KE	PRICE, BUFORD		Education & Outreach		0.10			0.10
2.1 Program Management	2.1.1 Administration	US	UCB	SC	WOSCHNAGG, KURT		Speakers Comm member		0.10			0.10
2.1 Program Management	2.1.1 Administration	US	UD	KE	GAISSER, TOM		Spokesperson		0.30			0.30
2.1 Program Management	2.1.1 Administration	US	UMD	KE	SULLIVAN, GREG		ExecCom member		0.20			0.20
2.1 Program Management	2.1.1 Administration	US	UMD	PO	OLIVAS, ALEX		Pubcom member		0.10			0.10
2.1 Program Management	2.1.1 Administration	US	UMD	PO	WISSING, HENRIKE		Pubcom member		0.10			0.10
2.1 Program Management	2.1.1 Administration	US	UW	KE	HALZEN, FRANCIS		Principle Investigator	0.08	0.33			0.42
2.1 Program Management	2.1.1 Administration	US	UW	KE	KARLE, ALBRECHT		Associate Director for Science	0.08	0.33			0.42
2.1 Program Management	2.1.1 Administration	US	UW	KE	WESTERHOFF, STEFAN		Pubcom member		0.10			0.10
2.1 Program Management	2.1.1 Administration	US	UW	KE	YECK, JAMES		Project Director	0.75				0.75
2.1 Program Management	2.1.1 Administration	US	UW	SC	HILL, GARY		Weekly call, ICC support		0.20			0.20
2.1 Program Management	2.1.1 Administration	US	UW	MA	MERCK, MARTIN		Computing Infrastructure Management	1.00				1.00
2.1 Program Management	2.1.1 Administration	US	UW	MA	PELES, ADI		Resource Coordinator	0.50				0.50
2.1 Program Management	2.1.1 Administration	US	UW	AD	UW AD		Administrative Support	0.50				0.50
2.1 Program Management	2.1.1 Administration	US	UW	AD	UW AD		Host Spring collaboration meeting		0.50			0.50
2.1 Program Management	2.1.1 Administration	US	US Total							3.29	3.29	6.58
2.1 Program Management	2.1.1 Administration	Non-US	DESY	KE	SPIERING, CHRISTIAN		ExecCom member				0.15	0.15
2.1 Program Management	2.1.1 Administration	Non-US	DESY	AD	DESY AD		Host Fall Collaboration Meeting				0.00	0.00
2.1 Program Management	2.1.1 Administration	Non-US	MPI	KE	RESCONI, ELISA		Analysis Coordinator				0.50	0.50
2.1 Program Management	2.1.1 Administration	Non-US	RWTH	KE	WIEBUSCH, CHRISTOPHER		Coordinate BMBF Funding				0.10	0.10
2.1 Program Management	2.1.1 Administration	Non-US	SU	KE	HULTH, PER OLOF		ExecCom member				0.20	0.20
2.1 Program Management	2.1.1 Administration	Non-US	SU	KE	HULTH, PER OLOF		Outreach				0.15	0.15
2.1 Program Management	2.1.1 Administration	Non-US	SU	KE	HULTH, PER OLOF		ICB Member				0.05	0.05
2.1 Program Management	2.1.1 Administration	Non-US	SU	KE	WALCK, CHRISTIAN		Pubcom member				0.10	0.10
2.1 Program Management	2.1.1 Administration	Non-US	SU	SC	FINLEY, CHAD SU		Coordination with LIGO				0.10	0.10
2.1 Program Management	2.1.1 Administration	Non-US	ULB	KE	BERTRAND, DANIEL		ExecCom member				0.20	0.20
2.1 Program Management	2.1.1 Administration	Non-US	UU	KE	BOTNER, OLGA		Outreach				0.05	0.05
2.1 Program Management	2.1.1 Administration	Non-US	UU	KE	BOTNER, OLGA		Pubcom Chair				0.40	0.40
2.1 Program Management	2.1.1 Administration	Non-US	UU	KE	HALLGREN, ALLAN		Outreach				0.05	0.05
2.1 Program Management	2.1.1 Administration	Non-US	UU	KE	HALLGREN, ALLAN		Speakers Comm member				0.10	0.10
2.1 Program Management	2.1.1 Administration	Non-US	WUPPERTAL	KE	HELBING, KLAUS		Speakers Comm member				0.10	0.10
2.1 Program Management	2.1.1 Administration	Non-US	MAINZ	KE	KOPKE, LUTZ		ExecCom member				0.15	0.15
2.1 Program Management	2.1.1 Administration	Non-US	BONN	KE	KOWALSKI, MAREK		Pubcom member				0.10	0.10
2.1 Program Management	2.1.1 Administration	Non-US	BOCHUM	KE	BECKER, JULIA		Pubcom member				0.10	0.10
2.1 Program Management	2.1.1 Administration	Non-US	Non-US Total								2.60	2.60
2.1 Program Management	2.1.1 Administration	WBS L3								3.29	3.29	9.18
2.1 Program Management	2.1.2 Engineering And R&D	US	KU	KE	BESSON, DAVE		EMI - Radio R&D			0.10		0.10
2.1 Program Management	2.1.2 Engineering And R&D	US	UMD	KE	HOFFMAN, KARA		Detector R&D			0.20		0.20
2.1 Program Management	2.1.2 Engineering And R&D	US	UW	SC	LANDSMAN, YAEL HAGAR		Science Support	0.25				0.25
2.1 Program Management	2.1.2 Engineering And R&D	US	UW	SE	LAUNDRIE, ANDREW		EMI, Instrumentation, I/F	0.25				0.25
2.1 Program Management	2.1.2 Engineering And R&D	US	UW	SE	LAUNDRIE, ANDREW		Engineering Support	0.65				0.65
2.1 Program Management	2.1.2 Engineering And R&D	US	UW	SE	SANDSTROM, PERRY		EMI, Instrumentation, I/F	0.25				0.25
2.1 Program Management	2.1.2 Engineering And R&D	US	UW	SE	SANDSTROM, PERRY		Engineering Support	0.25				0.25
2.1 Program Management	2.1.2 Engineering And R&D	US	UW	EN	UW EN		Engineering Support	0.10				0.10
2.1 Program Management	2.1.2 Engineering And R&D	US	UW	TE	UW TE		EMI, Instrumentation, I/F	0.25				0.25
2.1 Program Management	2.1.2 Engineering And R&D	US	US Total							2.00	0.30	2.30
2.1 Program Management	2.1.2 Engineering And R&D	Non-US	DESY	KE	NAHNHAUER, ROLF		Acoustic R&D Support				0.10	0.10
2.1 Program Management	2.1.2 Engineering And R&D	Non-US	EPFL	KE	EPFL KE		Acoustic R&D Support				0.10	0.10
2.1 Program Management	2.1.2 Engineering And R&D	Non-US	RWTH	SC	RWTH SC		Acoustic R&D Support				0.10	0.10
2.1 Program Management	2.1.2 Engineering And R&D	Non-US	ULB	KE	HANSON, KAELE ULB		EMI/R&D				0.10	0.10
2.1 Program Management	2.1.2 Engineering And R&D	Non-US	UU	KE	HALLGREN, ALLAN		Acoustic R&D Support				0.10	0.10
2.1 Program Management	2.1.2 Engineering And R&D	Non-US	WUPPERTAL	KE	HELBING, KLAUS		R&D Lead				0.10	0.10
2.1 Program Management	2.1.2 Engineering And R&D	Non-US	WUPPERTAL	KE	WUPPERTAL KE		RFI				0.10	0.10
2.1 Program Management	2.1.2 Engineering And R&D	Non-US	WUPPERTAL	PO	KARG, TIMO		Acoustic Lead				0.10	0.10
2.1 Program Management	2.1.2 Engineering And R&D	Non-US	GENT	SC	UGENT SC		Acoustic R&D Support				0.05	0.05
2.1 Program Management	2.1.2 Engineering And R&D	Non-US	GENT	GR	UGENT GR		Acoustic R&D Support				0.05	0.05
2.1 Program Management	2.1.2 Engineering And R&D	Non-US	Non-US Total								0.90	0.90
2.1 Program Management	2.1.2 Engineering And R&D	WBS L3								2.00	0.30	3.20
2.1 Program Management	2.1.3 Usap Support	US	UW	MA	PAULOS, ROBERT		USAP Support	0.25				0.25
2.1 Program Management	2.1.3 Usap Support	US	US Total							0.25		0.25
2.1 Program Management	2.1.3 Usap Support	WBS L3								0.25		0.25
2.1 Program Management	2.1.4 Education & Outreach	US	OSU	PO	OSU PO		Outreach			0.05		0.05
2.1 Program Management	2.1.4 Education & Outreach	US	PSU	KE	COWEN, DOUG		Education & Outreach			0.05		0.05
2.1 Program Management	2.1.4 Education & Outreach	US	PSU	KE	DEYOUNG, TYCE		Education & Outreach			0.05		0.05
2.1 Program Management	2.1.4 Education & Outreach	US	UMD	KE	UMD KE		E&O			0.10		0.10
2.1 Program Management	2.1.4 Education & Outreach	US	UW	AD	MALKUS, EVELYN		Education & Outreach Coordination	0.75				0.75
2.1 Program Management	2.1.4 Education & Outreach	US	UW	AD	UW AD		Teachers	0.25				0.25
2.1 Program Management	2.1.4 Education & Outreach	US	UWRF	KE	MADSEN, JIM		Teachers' program and UWRF Upward Bound			0.10		0.10
2.1 Program Management	2.1.4 Education & Outreach	US	UWRF	TE	UWRF TE		Teachers Program	0.15				0.15
2.1 Program Management	2.1.4 Education & Outreach	US	US Total							1.15	0.35	1.50
2.1 Program Management	2.1.4 Education & Outreach	WBS L3								1.15	0.35	1.50
2.2 Detector Operations & Maintenance	2.2.1 Run Coordination	US	UW	SC	KRASBERG, MARK		Winterovers coordinator	0.25				0.25
2.2 Detector Operations & Maintenance	2.2.1 Run Coordination	US	UW	WO	UW WO		Operate Detector (Winter-Overs)	3.00				3.00
2.2 Detector Operations & Maintenance	2.2.1 Run Coordination	US	US Total							3.25		3.25
2.2 Detector Operations & Maintenance	2.2.1 Run Coordination	Non-US	UC	GR	UC GR		Flasher Runs				0.10	0.10
2.2 Detector Operations & Maintenance	2.2.1 Run Coordination	Non-US	BONN	PO	BOESER SEBASTIAN		Run Coordinator				0.50	0.50
2.2 Detector Operations & Maintenance	2.2.1 Run Coordination	Non-US	Non-US Total								0.60	0.60
2.2 Detector Operations & Maintenance	2.2.1 Run Coordination	WBS L3								3.25	0.60	3.85

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WBS L2	WBS L3	US / Non-US	Institution	Labor Cat.	Names			Tasks			NSF M&O Core	U.S. IN KIND	Non U.S. In-Kind	Grand Total
					Cat.	Description	Cat.	Description	Cat.	Description				
					AD Administration	GR Graduate Student	PO Postdoctoral Scientist	TE Technician	CS Computer Science Eng.	KE Key Personnel/Faculty				
2.2 Detector Operations &	2.2.2 Data Acquisition	US	LBNL	CS	BEATTIE,KEITH S		Maintain DAQ Software Systems (incl. triggers, DOM SW, etc. up to Event Builder)			0.00			0.00	
2.2 Detector Operations &	2.2.2 Data Acquisition	US	LBNL	EN	STEZELBERGER,THORSTEN		Maintain DAQ Hardware (Hubs, DOR, Clocks, GPS,...)			0.15			0.15	
2.2 Detector Operations &	2.2.2 Data Acquisition	US	UD	KE	UD KE		DAQ Monitoring			0.05			0.05	
2.2 Detector Operations &	2.2.2 Data Acquisition	US	UW	SC	KRASBERG, MARK		DOM Cal Maintenance, DOM Monitoring and Troubleshooting			0.35			0.35	
2.2 Detector Operations &	2.2.2 Data Acquisition	US	UW	SC	KRASBERG, MARK		Provide Real-time System Monitoring and Paging			0.20			0.20	
2.2 Detector Operations &	2.2.2 Data Acquisition	US	UW	SC	WENDT, CHRISTOPHER		DOM CAL Maintenance			0.25			0.25	
2.2 Detector Operations &	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 Operations &	2.2.2 Data Acquisition	US	UW	SE	SANDSTROM, PERRY		Maintain DAQ Hardware (Hubs, DOR, Clocks, GPS,...)			0.25			0.25	
2.2 Detector Operations &	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 Operations &	2.2.2 Data Acquisition	US	UW	GR	WEAVER, CHRISTOPHER		DOM CAL Maintenance			0.20			0.20	
2.2 Detector Operations &	2.2.2 Data Acquisition	US	US Total							2.35	0.25		2.60	
2.2 Detector Operations &	2.2.2 Data Acquisition	Non-US	DESY	SC	SULANKE, K.-H.		DAQ Firmware Support					0.15	0.15	
2.2 Detector Operations &	2.2.2 Data Acquisition	Non-US	ULB	KE	HANSON, KAELE ULB		Data Acquisition					0.20	0.20	
2.2 Detector Operations &	2.2.2 Data Acquisition	Non-US	Non-US Total									0.35	0.35	
2.2 Detector Operations &	2.2.2 Data Acquisition		WBS L3							2.35	0.25	0.35	2.95	
2.2 Detector Operations &	2.2.3 Online Filter (Pnf)	US	UMD	SC	BLAUFUSS, ERIK		Maintain PnF Software and Online Filters			0.20			0.20	
2.2 Detector Operations &	2.2.3 Online Filter (Pnf)	US	UMD	SC	SCHMIDT, TORSTEN		Maintain PnF Software and Online Filters			0.25			0.25	
2.2 Detector Operations &	2.2.3 Online Filter (Pnf)	US	UMD	GR	REDL, PETER		Online Filter Testing				0.25		0.25	
2.2 Detector Operations &	2.2.3 Online Filter (Pnf)	US	US Total							0.45	0.25		0.70	
2.2 Detector Operations &	2.2.3 Online Filter (Pnf)		WBS L3							0.45	0.25		0.70	
2.2 Detector Operations &	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 Operations &	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 Operations &	2.2.4 Sps Operations	US	UW	EN	WISNIEWSKI, PAUL		Networking and Security Maintenance			0.25			0.25	
2.2 Detector Operations &	2.2.4 Sps Operations	US	US Total							1.25			1.25	
2.2 Detector Operations &	2.2.4 Sps Operations		WBS L3							1.25			1.25	
2.2 Detector Operations &	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 Operations &	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 Operations &	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 Operations &	2.2.5 Spts Operations	US	US Total							0.85			0.85	
2.2 Detector Operations &	2.2.5 Spts Operations		WBS L3							0.85			0.85	
2.2 Detector Operations &	2.2.6 Experiment Control	US	UW	CS	JACOBSEN, JOHN (NPX)		IceCube Live Maintenance and Upgrades			0.85			0.85	
2.2 Detector Operations &	2.2.6 Experiment Control	US	US Total							0.85			0.85	
2.2 Detector Operations &	2.2.6 Experiment Control		WBS L3							0.85			0.85	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	CAU	KE	JAPARIDZE, GEORGE		Monitoring shifts				0.02		0.02	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	GTECH	GR	GTECH GR		Monitoring shifts				0.03		0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	KU	KE	BESSON, DAVE		Monitoring shifts				0.02		0.02	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	LBNL	SC	KIRYLK, JOANNA		BadDomList				0.20		0.20	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	LBNL	PO	LBNL PO		Monitoring shifts				0.09		0.09	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	OSU	PO	OSU PO		Monitoring shifts				0.02		0.02	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	OSU	PO	ROTT, CARSTEN		Maintain good run list				0.20		0.20	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	OSU	GR	DAVIS, JAMES		Monitoring shifts				0.01		0.01	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	PSU	PO	KOSKINEN, JASON		Monitoring shifts				0.03		0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	PSU	GR	PSU GR		Monitoring shifts				0.03		0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	SUBR	SC	TER-ANTONYAN, SAMVEL		Detector Monitoring				0.02		0.02	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	UA	GR	XU, DONGLIAN		Monitoring shifts				0.03		0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	UAA	KE	RAWLINS, KATHERINE		Monitoring shifts				0.02		0.02	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	UCB	SC	FILIMONOV, KIRILL		Coordinate Monitoring				0.50		0.50	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	UCB	SC	UCB SC		Monitoring shifts				0.02		0.02	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	UCB	GR	UCB GR		Monitoring shifts				0.02		0.02	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	UCI	PO	SILVERSTRI, ANDREA		Monitoring shifts				0.01		0.01	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	UCI	GR	HANSON, JORDAN		Monitoring shifts				0.01		0.01	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	UD	PO	KUWABARA, TAKAO		Temp. & Pressure atmospheric monitoring				0.25		0.25	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	UMD	PO	UMD PO		Monitoring shifts				0.03		0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	UMD	GR	UMD GR		Monitoring shifts				0.06		0.06	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	UW	PO	UW PO		Monitoring shifts				0.12		0.12	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	UW	GR	BAKER, MICHAEL		Stability				0.10		0.10	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	UW	GR	UW GR		Monitoring shifts				0.12		0.12	
2.2 Detector Operations &	2.2.7 Detector Monitoring	US	US Total							1.94			1.94	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	CHIBA	GR	CHIBA GR		Detector Monitoring					0.03	0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	DESY	SC	DESY SC		Detector Monitoring					0.06	0.06	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	DESY	SC	BENABDERRAHMANE, LOFTI		Deputy Monitoring Coordinator					0.20	0.20	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	DESY	GR	DESY GR		Detector Monitoring					0.12	0.12	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	DTMND	GR	DTMD GR		Detector Monitoring					0.03	0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	EPFL	GR	EPFL GR		Detector Monitoring					0.03	0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	MPI	GR	MPI GR		Detector Monitoring					0.05	0.05	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	RWTH	GR	RWTH GR		Monitoring (3 weeks)					0.09	0.09	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	SU	GR	SU GR		Detector Monitoring					0.06	0.06	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	UC	GR	UC GR		Detector Monitoring					0.02	0.02	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	ULB	GR	ULB GR		Detector Monitoring					0.03	0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	UMH	GR	KOHNEN, GEORGE		Detector Monitoring					0.03	0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	UOX	KE	SARKAR, SUBIR		Detector Monitoring					0.02	0.02	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	UU	GR	UU GR		Detector Monitoring					0.03	0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	VUB	PO	VUB PO		Monitoring shifts					0.06	0.06	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	VUB	GR	VUB GR		Detector Monitoring					0.03	0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	WUPPERTAL	GR	WUPPERTAL GR		South Pole EMI Monitoring					0.15	0.15	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	WUPPERTAL	GR	WUPPERTAL GR		AURA, SPATS, surface antenna operations (RICE)					0.45	0.45	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	MAINZ	GR	UM GR		Detector Monitoring					0.05	0.05	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	MAINZ	GR	SCHATTO, KAI		Monitoring IceCube Live integration					0.35	0.35	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	HUMBOLDT	SC	HUMB SC		Detector Monitoring					0.03	0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	GENT	GR	UGENT GR		Detector Monitoring					0.03	0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	BONN	GR	UBONN GR		Detector Monitoring					0.03	0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	BOCHUM	GR	UBOCHUM GR		Detector Monitoring					0.03	0.03	
2.2 Detector Operations &	2.2.7 Detector Monitoring	Non-US	Non-US Total									2.01	2.01	
2.2 Detector Operations &	2.2.7 Detector Monitoring		WBS L3							1.94	2.01		3.95	

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WBS L2	WBS L3	US / Non-US	Institution	Labor 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	TE Technician				
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	US	GTECH	GR	DAUGHMETEE, JACOB	Standard Candle Vertex and Energy Calibration			0.20		0.20	
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	US	LBNL	SC	KIRYLUK, JOANNA	Flasher Runs			0.10		0.10	
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	US	UA	KE	WILLIAMS, DAWN	managing flasher runs and other calibrations (stage 2 geometry)			0.15		0.15	
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	US	UA	PO	ZARZHITZKY, PAVEL	taking flasher runs			0.20		0.20	
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	US	UA	GR	XU, DONGLIAN	geometry systematic			0.25		0.25	
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	US	UCB	SC	WOSCHNAGG, KURT	Calibration Lead			0.15		0.15	
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	US	UCB	GR	UCB GR	Calibration			0.10		0.10	
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	US	UW	SC	WENDT, CHRISTOPHER	Prepare and Evaluate Flasher Calibrations 0.25			0.28		0.28	
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	US	UW	GR	GLADSTONE, LAURA	Evaluate (DomCal) Calibration Runs and update Calibration constants 0.1			0.15		0.15	
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	US	UW	GR	SANTANDER, MARCOS	Calibration with flashers			0.20		0.20	
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	US	US Total						0.28	1.50	1.78	
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	Non-US	DESY	GR	ACHIM STOESSL	Flasher Analysis				0.20	0.20	
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	Non-US	DESY	GR	EIKE MIDDLELL	Flasher Analysis				0.10	0.10	
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	Non-US	UW	PO	MILLER, JONATHAN	Flasher Calibration				0.20	0.20	
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	Non-US	Non-US Total							0.50	0.50	
2.2 Detector Operations & Maintenance	2.2.8 Detector Calibration	2.2.8 Detector Calibration WBS L3										
2.2 Detector Operations & Maintenance	2.2.9 IceTop Operations	US	UD	SC	UD SC	Coordinate IceTop Operations			1.00		1.00	
2.2 Detector Operations & Maintenance	2.2.9 IceTop Operations	US	UWRF	KE	SPICZAK, GLENN	IceTop tank Monitoring			0.03		0.03	
2.2 Detector Operations & Maintenance	2.2.9 IceTop Operations	US	UWRF	SC	TAMBURRO, ALESSIO	IceTop tank Monitoring			0.03		0.03	
2.2 Detector Operations & Maintenance	2.2.9 IceTop Operations	US	US Total						1.00	0.05	1.05	
2.2 Detector Operations & Maintenance	2.2.9 IceTop Operations	Non-US	HUMBOLDT	SC	WALDENMAIER, TILO	IceTop Operations				0.10	0.10	
2.2 Detector Operations & Maintenance	2.2.9 IceTop Operations	Non-US	Non-US Total							0.10	0.10	
2.2 Detector Operations & Maintenance	2.2.9 IceTop Operations	2.2.9 IceTop Operations WBS L3										
2.2 Detector Operations & Maintenance	2.2.10 Supernova Operations	Non-US	MAINZ	GR	KROLL, GÖSTA	SuperNova Operations				0.50	0.50	
2.2 Detector Operations & Maintenance	2.2.10 Supernova Operations	Non-US	MAINZ	GR	WIEBE, KLAUS	SuperNova IceCube Live integration				0.10	0.10	
2.2 Detector Operations & Maintenance	2.2.10 Supernova Operations	Non-US	Non-US Total							0.60	0.60	
2.2 Detector Operations & Maintenance	2.2.10 Supernova Operations	2.2.10 Supernova Operations WBS L3										
2.2 Detector Operations & Maintenance	2.2.10 Supernova Operations	2.2.10 Supernova Operations WBS L2 Total										
2.2 Detector Operations & Maintenance	2.2.10 Supernova Operations								11.15	4.09	14.16	
2.3 Computing And Data Management	2.3.1 Core Software	US	UMD	SC	BLAUFUSS, ERIK	Core Software			0.00		0.00	
2.3 Computing And Data Management	2.3.1 Core Software	US	UMD	SC	SCHMIDT, TORSTEN	Maintain Core Analysis Framework (IceTray)			0.50		0.50	
2.3 Computing And Data Management	2.3.1 Core Software	US	UMD	CS	UMD CS	Maintain Core Software Repository			0.25		0.25	
2.3 Computing And Data Management	2.3.1 Core Software	US	UMD	GR	UMD GR	Core Software			0.25		0.25	
2.3 Computing And Data Management	2.3.1 Core Software	US	UMD	GR	EHRlich, RALF	Core Software			0.50		0.50	
2.3 Computing And Data Management	2.3.1 Core Software	US	UMD	TE	STRASZHEIM, TROY	Maintain Core Analysis Framework (IceTray)			0.88		0.88	
2.3 Computing And Data Management	2.3.1 Core Software	US	UW	TE	DIAZ-VELEZ, JUAN CARLOS	Simulation Programs: diploia			0.80		0.80	
2.3 Computing And Data Management	2.3.1 Core Software	US	UW	TE	FADIRAN, OLADIPO	Maintain Data Processing Software			0.20		0.20	
2.3 Computing And Data Management	2.3.1 Core Software	US	UW	TE	UW TE	Maintain Data Processing Software			0.30		0.30	
2.3 Computing And Data Management	2.3.1 Core Software	US	US Total						2.93	0.75	3.68	
2.3 Computing And Data Management	2.3.1 Core Software	Non-US	RWTH	SC	RWTH SC	Maintain Reconstruction Framework				0.10	0.10	
2.3 Computing And Data Management	2.3.1 Core Software	Non-US	RWTH	GR	RWTH GR	Maintain Reconstruction Framework				0.15	0.15	
2.3 Computing And Data Management	2.3.1 Core Software	Non-US	ULB	PO	MAROTTA, ALBERTO	Maintain and Operate Database Systems (I3OmDb)				0.20	0.20	
2.3 Computing And Data Management	2.3.1 Core Software	Non-US	Non-US Total							0.45	0.45	
2.3 Computing And Data Management	2.3.1 Core Software	2.3.1 Core Software WBS L3										
2.3 Computing And Data Management	2.3.1 Core Software								2.93	0.75	3.68	
2.3 Computing And Data Management	2.3.2 Data Storage & Transfer	US	UW	EN	MACKENZIE, CYNTHIA	Transfer Data from S. Pole to UW Data Warehouse and Archive at S. Pole			0.50		0.50	
2.3 Computing And Data Management	2.3.2 Data Storage & Transfer	US	UW	AD	RICHARDS, JOHN	Maintain Data Transfer Software (SPADE)			1.00		1.00	
2.3 Computing And Data Management	2.3.2 Data Storage & Transfer	US	UW	TE	FADIRAN, OLADIPO	Maintain Data Warehouse Standards, Software (Ingest), Data Access (FTP), and Web Interface			0.20		0.20	
2.3 Computing And Data Management	2.3.2 Data Storage & Transfer	US	UW	TE	MCGUIRE, PAUL	Maintain and Operate Data Storage Infrastructure			0.50		0.50	
2.3 Computing And Data Management	2.3.2 Data Storage & Transfer	US	UW	TE	UW TE	Transformation of Data for Long-Term Persistence and Archival, e.g., HDF5			0.30		0.30	
2.3 Computing And Data Management	2.3.2 Data Storage & Transfer	US	UW	TE	MEADE, PATRICK	Maintain Data Warehouse Standards, Software (Ingest), Data Access (FTP), and Web Interface			0.50		0.50	
2.3 Computing And Data Management	2.3.2 Data Storage & Transfer	US	US Total						3.00		3.00	
2.3 Computing And Data Management	2.3.2 Data Storage & Transfer	2.3.2 Data Storage & Transfer WBS L3										
2.3 Computing And Data Management	2.3.2 Data Storage & Transfer								3.00		3.00	
2.3 Computing And Data Management	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 Data Management	2.3.3 Computing Resources	US	SUBR	SC	TER-ANTONYAN, SAMVEL	LONI Grid computing			0.30		0.30	
2.3 Computing And Data Management	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 Data Management	2.3.3 Computing Resources	US	UW	EN	BARNET, STEVE	0.75 Maintain Core High Performance Computing Systems			1.00		1.00	
2.3 Computing And Data Management	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 Data Management	2.3.3 Computing Resources	US	UW	EN	WISNIEWSKI, PAUL	Maintain Data Center Infrastructure			0.75		0.75	
2.3 Computing And Data Management	2.3.3 Computing Resources	US	UW	TE	MCGUIRE, PAUL	Maintain Data Center Networking and Security			0.50		0.50	
2.3 Computing And Data Management	2.3.3 Computing Resources	US	UW	TE	UW TE	Maintain Data Center Infrastructure			0.50		0.50	
2.3 Computing And Data Management	2.3.3 Computing Resources	US	UW	TE	UW TE	Maintain Core High Performance Computing Systems			0.44		0.44	
2.3 Computing And Data Management	2.3.3 Computing Resources	US	US Total						4.19	0.30	4.49	
2.3 Computing And Data Management	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 Data Management	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 Data Management	2.3.3 Computing Resources	Non-US	DTMND	SC	PIELOTH, DAMIAN	Coordinate GRID computing in Germany				0.25	0.25	
2.3 Computing And Data Management	2.3.3 Computing Resources	Non-US	SU	SC	SU SC	Computing Resources				0.50	0.50	
2.3 Computing And Data Management	2.3.3 Computing Resources	Non-US	UMH	GR	KOHNNEN, GEORGE	IC database management				0.30	0.30	
2.3 Computing And Data Management	2.3.3 Computing Resources	Non-US	Non-US Total							3.20	3.20	
2.3 Computing And Data Management	2.3.3 Computing Resources	2.3.3 Computing Resources WBS L3										
2.3 Computing And Data Management	2.3.3 Computing Resources								4.19	0.30	4.49	

IceCube M&O Staffing Matrix sort by WBS and Tasks v9.0 2010.0915

WBS L2	WBS L3	US / Non-US	Institution	Labor Cat.	Names		Tasks		NSF M&O Core	U.S. IN KIND	Non U.S. In-Kind	Grand Total			
					Cat.	Description	Cat.	Description							
2.3 Computing And Data M	2.3.4 Data Production Process	US	UW	PO	TOSCANO, SIMONA		Cascade data processing			0.35		0.35			
							0.2 Unpacking, Decoding and Calibration of Raw Data in the North (Level1)								
							0.3 Run Common Reconstructions on UW IceCube Compute Cluster (Level2)								
2.3 Computing And Data M	2.3.4 Data Production Process	US	UW	TE	MEADE, PATRICK			0.50				0.50			
2.3 Computing And Data M	2.3.4 Data Production Process	US	US Total					0.50	0.35			0.85			
2.3 Computing And Data M	2.3.4 Data Production Process	Non-US	RWTH	GR	SCHUKRAFT, ANNE		Photonics Production				0.25	0.25			
2.3 Computing And Data M	2.3.4 Data Production Process	Non-US	Non-US Total								0.25	0.25			
2.3 Computing And Data M	2.3.4 Data Production Process	WBS L3										0.50	0.35	0.25	1.10
2.3 Computing And Data M	2.3.5 Simulation Production	US	GTECH	PO	TEPE, ANDREAS		Simulation Production			0.20		0.20			
2.3 Computing And Data M	2.3.5 Simulation Production	US	LBNL	SC	KIRYLUK, JOANNA		Simulation Production on PDSF			0.20		0.20			
2.3 Computing And Data M	2.3.5 Simulation Production	US	PSU	PO	PSU PO		Simulation Production			0.17		0.17			
2.3 Computing And Data M	2.3.5 Simulation Production	US	UD	PO	HUSSAIN, SHAHID		IceTop Simulation Production			0.15		0.15			
2.3 Computing And Data M	2.3.5 Simulation Production	US	UMD	GR	CHRISTY, BRIAN		Simulation Production coordination			0.25		0.25			
2.3 Computing And Data M	2.3.5 Simulation Production	US	UW	SC	DESIATI, PAOLO		Coordination of Simulation Production	0.70				0.70			
2.3 Computing And Data M	2.3.5 Simulation Production	US	UW	PO	HOSHINA, K		Photon prop. Calibration			0.10		0.10			
2.3 Computing And Data M	2.3.5 Simulation Production	US	UW	GR	EISCH, JONATHAN		IceTop Simulation Production			0.30		0.30			
							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 Data M	2.3.5 Simulation Production	US	UW	TE	FADIRAN, OLADIPO			0.60				0.60			
2.3 Computing And Data M	2.3.5 Simulation Production	US	US Total					1.30	1.37			2.67			
2.3 Computing And Data M	2.3.5 Simulation Production	Non-US	DESY	KE	WALTER, MICHAEL		Simulation Production Cluster				0.20	0.20			
2.3 Computing And Data M	2.3.5 Simulation Production	Non-US	DESY	SC	BERGMANN, JENS		Simulation Production Cluster				0.25	0.25			
2.3 Computing And Data M	2.3.5 Simulation Production	Non-US	DESY	GR	DESY GR		Simulation Production Cluster				0.15	0.15			
2.3 Computing And Data M	2.3.5 Simulation Production	Non-US	DTMND	GR	DTMD GR		Simulation Production				0.40	0.40			
2.3 Computing And Data M	2.3.5 Simulation Production	Non-US	RWTH	SC	RWTH SC		Simulation Production on cluster/GRID				0.10	0.10			
2.3 Computing And Data M	2.3.5 Simulation Production	Non-US	RWTH	GR	RWTH GR		Simulation Production on cluster/GRID				0.85	0.85			
2.3 Computing And Data M	2.3.5 Simulation Production	Non-US	SU	GR	JOHANSSON, HENRIK		GRID/Simulation production & development				0.20	0.20			
2.3 Computing And Data M	2.3.5 Simulation Production	Non-US	ULB	PO	MAROTTA, ALBERTO		Computer Cluster - simulation				0.30	0.30			
2.3 Computing And Data M	2.3.5 Simulation Production	Non-US	VUB	PO	STRAHLER, ERIK		simulation of ice properties and DOM sensitivities				0.25	0.25			
2.3 Computing And Data M	2.3.5 Simulation Production	Non-US	ALBERTA	KE	GRANT, DARREN		WestGrid computing				0.10	0.10			
2.3 Computing And Data M	2.3.5 Simulation Production	Non-US	WUPPERTAL	PO	KARG, TIMO		Simulation Production				0.20	0.20			
2.3 Computing And Data M	2.3.5 Simulation Production	Non-US	WUPPERTAL	GR	WUPPERTAL GR		Simulation Production				0.20	0.20			
2.3 Computing And Data M	2.3.5 Simulation Production	Non-US	MAINZ	SC	AHRENS, JENS		Simulation Production				0.15	0.15			
2.3 Computing And Data M	2.3.5 Simulation Production	Non-US	MAINZ	GR	WIEBE, KLAUS		Simulation Production				0.30	0.30			
2.3 Computing And Data M	2.3.5 Simulation Production	Non-US	Non-US Total								3.65	3.65			
2.3 Computing And Data M	2.3.5 Simulation Production	WBS L3										1.30	1.37	3.65	6.32
2.3 Computing And Data M	WBS L2 Total											11.92	2.77	7.55	22.23
2.4 Triggering And Filtering	2.4.1 Tft Coordination	US	UD	KE	SECKEL, DAVID		TFT Board member				0.10	0.10			
2.4 Triggering And Filtering	2.4.1 Tft Coordination	US	UMD	SC	BLAUFUSS, ERIK		Coordinate process for filter requests, bandwidth	0.30				0.30			
							Prepare datasets for filter testing and common MC datasets for testing				0.20	0.20			
2.4 Triggering And Filtering	2.4.1 Tft Coordination	US	UW	KE	MONTARULI, TERESA		TFT Board member				0.10	0.10			
2.4 Triggering And Filtering	2.4.1 Tft Coordination	US	US Total					0.30	0.40			0.70			
2.4 Triggering And Filtering	2.4.1 Tft Coordination	Non-US	ULB	KE	HANSON, KAEULB		TFT Board member				0.10	0.10			
2.4 Triggering And Filtering	2.4.1 Tft Coordination	Non-US	UU	KE	DE LOS HEROS, CARLOS		TFT Board member				0.10	0.10			
2.4 Triggering And Filtering	2.4.1 Tft Coordination	Non-US	BONN	KE	KOWALSKI, MAREK		TFT Board member				0.10	0.10			
2.4 Triggering And Filtering	2.4.1 Tft Coordination	Non-US	Non-US Total								0.30	0.30			
2.4 Triggering And Filtering	2.4.1 Tft Coordination	WBS L3										0.30	0.40	0.30	1.00
2.4 Triggering And Filtering	2.4.2 Physics Filters	US	LBNL	KE	KLEIN, SPENCER		Co. Chair of Cascade WG				0.25	0.25			
2.4 Triggering And Filtering	2.4.2 Physics Filters	US	OSU	GR	DAVIS, JAMES		Vertical Events Filter				0.15	0.15			
2.4 Triggering And Filtering	2.4.2 Physics Filters	US	PSU	KE	COWEN, DOUG		Hybrid/Tau WG Chair				0.25	0.25			
2.4 Triggering And Filtering	2.4.2 Physics Filters	US	PSU	KE	DEYOUNG, TYCE		Deep Core WG - Co Chair				0.25	0.25			
2.4 Triggering And Filtering	2.4.2 Physics Filters	US	PSU	PO	KOSKINEN, JASON		develop and verify Deep Core filters				0.18	0.18			
2.4 Triggering And Filtering	2.4.2 Physics Filters	US	UCB	SC	WOSCHNAGG, KURT		Diffuse / atmosnu WG chair				0.25	0.25			
2.4 Triggering And Filtering	2.4.2 Physics Filters	US	UD	PO	BERGHAUS, PATRICK - UD		muon channel WG Co. Chair				0.25	0.25			
2.4 Triggering And Filtering	2.4.2 Physics Filters	US	UMD	SC	BLAUFUSS, ERIK		GRB WG Chair				0.25	0.25			
2.4 Triggering And Filtering	2.4.2 Physics Filters	US	UMD	PO	OLIVAS, ALEX		exotics- WG chair				0.25	0.25			
2.4 Triggering And Filtering	2.4.2 Physics Filters	US	UW	SC	MARUYAMA, REINA		Supernova WG Chair				0.25	0.25			
2.4 Triggering And Filtering	2.4.2 Physics Filters	US	UW	PO	AGUILAR SANCHEZ JUAN AN		muon filter				0.15	0.15			
2.4 Triggering And Filtering	2.4.2 Physics Filters	US	UW	PO	TOSCANO, SIMONA		Cascade Online filter				0.15	0.15			
2.4 Triggering And Filtering	2.4.2 Physics Filters	US	UW	GR	GLADSTONE, LAURA		Deep Core online Filter				0.15	0.15			
2.4 Triggering And Filtering	2.4.2 Physics Filters	US	UW	GR	WHITEHORN, NATHAN		GRB Filter				0.15	0.15			
2.4 Triggering And Filtering	2.4.2 Physics Filters	US	US Total								2.93	2.93			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	CHIBA	KE	YOSHIDA, SHIGERU		EHE WG Lead				0.25	0.25			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	CHIBA	GR	ONO, MIO		EHE Filters				0.15	0.15			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	DESY	GR	FRANKE, ROBERT		Online Filter for Alerts				0.10	0.10			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	DESY	GR	FRANKE, ROBERT		Rate Data Bank South Pole				0.10	0.10			
2.4 Triggering And Filtering	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 Filtering	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 Filtering	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 Filtering	2.4.2 Physics Filters	Non-US	SU	SC	SEO, SEON-HEE		Develop & verify filters				0.05	0.05			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	SU	SC	FINLEY, CHAD SU		Point Source WG Lead				0.25	0.25			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	SU	GR	JOHANSSON, HENRIK		UHE Trigger & Filter				0.10	0.10			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	SU	GR	DANNINGER, MATTIAS		WIMP Trigger & Filter				0.15	0.15			
2.4 Triggering And Filtering	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 Filtering	2.4.2 Physics Filters	Non-US	UU	KE	HALLGREN, ALLAN		online filter development				0.05	0.05			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	UU	KE	DE LOS HEROS, CARLOS		WIMP WG Lead				0.25	0.25			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	UU	GR	HENRIC, TAAVOLA		Online filter development & testing				0.10	0.10			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	UU	GR	STROM, RICKARD		Online filter development & testing				0.10	0.10			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	VUB	PO	LABARE, MATHIEU		Filter for Southern sky muons				0.25	0.25			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	VUB	PO	SINGH, KALPANA		Filter for Southern sky muons				0.25	0.25			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	BARBADOS	KE	SEUNARINE, SURUJ		Work on cascade filter				0.15	0.15			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	WUPPERTAL	GR	WUPPERTAL GR		New SUSY Filter				0.20	0.20			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	HUMBOLDT	SC	WALDENMAIER, TILO		CR-WG Lead				0.25	0.25			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	HUMBOLDT	SC	WALDENMAIER, TILO		CR-WG Filter				0.15	0.15			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	BONN	KE	KOWALSKI, MAREK		cascaes WG Co-Lead				0.25	0.25			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	BONN	GR	FRANCKOWIAK, ANNA		Alert System for follow-up				0.10	0.10			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	BONN	GR	HOMRIER, ANDREAS		Alert System for follow-up				0.10	0.10			
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US	Non-US Total								4.10	4.10			
2.4 Triggering And Filtering	2.4.2 Physics Filters	WBS L3										2.93	4.10	7.03	
2.4 Triggering And Filtering	WBS L2 Total											0.30	3.33	4.40	8.03

IceCube M&O Staffing Matrix sort by WBS and Tasks v9.0 2010.0915

WBS L2	WBS L3	US / Non-US	Institution	Labor 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	TE	Technician	
					CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover	
					EN	Engineer	MA	Management	SE	Senior Engineer			
2.5 Data Quality, Reconstru	2.5 Data Quality, Reconstruction	Non-US	UC	SC	GROSS, ANDREAS			Data Quality, Reco. & Sim. Tools Coordinator ("Low-level" Analysis Coordinator)			0.50	0.50	
2.5 Data Quality, Reconstru	2.5 Data Quality, Reconstruction	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, Reconstru	2.5 Data Quality, Reconstruction	Non-US	Non-US	Non-US Total							0.65	0.65	
2.5 Data Quality, Reconstru	2.5 Data Quality, Reconstruction	Non-US	Non-US	Non-US Total							0.65	0.65	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	US	LBNL	PO	BUITIN,STIJN			DOM simulator & calibrator			0.35	0.35	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	US	LBNL	PO	GERHARDT,LISA			Simulation Programs: cmc			0.20	0.20	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	US	SUBR	KE	FAZELY, ALI			GEANT Simulation			0.15	0.15	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	US	SUBR	KE	IMLAY, RICHARD			Simulation Programs			0.15	0.15	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	US	UA	PO	ZARZHITZKY, PAVEL			Simulation verification			0.30	0.30	
2.5 Data Quality, Reconstru	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, Reconstru	2.5.1 Simulation Programs	US	UD	PO	HUSSAIN, SHAHID			Ice Properties Simulation			0.30	0.30	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	US	UD	GR	RUZYBAEV, BAKHTIYAR			Ice Properties Simulation			0.30	0.30	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	US	UD	GR	XU, CHEN			Simulation Programs: sim-services			0.30	0.30	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	US	UMD	PO	OLIVAS, ALEX			Simulation Software Programs coordinator			0.40	0.40	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	US	UMD	PO	WISSING, HENRIKE			Maintain Detector Simulation (IceSim)			0.25	0.25	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	US	UMD	GR	REDL, PETER			Maintain Detector Simulation (IceSim)			0.25	0.25	
2.5 Data Quality, Reconstru	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, Reconstru	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, Reconstru	2.5.1 Simulation Programs	US	UW	PO	ABBASI, RASHA			DST data checking			0.10	0.10	
2.5 Data Quality, Reconstru	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, Reconstru	2.5.1 Simulation Programs	US	UW	PO	UW PO			Maintain IceSim			0.40	0.40	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	US	UW	GR	WHITEHORN, NATHAN			Photonics tables			0.10	0.10	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	US	UW	GR	SANTANDER, MARCOS			Flasher Analysis			0.15	0.15	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	US	UW	TE	DIAZ-VELEZ, JUAN CARLOS			Maintain Simulation Production Software			0.20	0.20	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	US	US Total								1.35	4.00	5.35
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	Non-US	DTMND	GR	MILKE, NATALIE			Simulation Programs: noise-generator			0.20	0.20	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	Non-US	SU	KE	WALCK, CHRISTIAN			Photonics/Simulation Work			0.05	0.05	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	Non-US	SU	KE	HULTQVIST, KLAS			Photonics/Simulation Work, hit-maker			0.15	0.15	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	Non-US	SU	SC	FINLEY, CHAD SU			Simulation Programs: neutrino-generator			0.20	0.20	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	Non-US	UOX	KE	SARKAR, SUBIR			Yellow Book-maintenance			0.10	0.10	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	Non-US	UU	PO	MILLER, JONATHAN			Simulation Programs: photonics			0.05	0.05	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	Non-US	GENT	SC	UGENT SC			Support IceTop Simulations, IceTop Calibrations, IceTop Reconstruction			0.10	0.10	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	Non-US	GENT	GR	UGENT GR			Support IceTop Simulations, IceTop Calibrations, IceTop Reconstruction			0.40	0.40	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	Non-US	BOCHUM	GR	OLIVO, MARTINO			Update MMC from Java to C++			0.25	0.25	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	Non-US	Non-US Total								1.45	1.45	
2.5 Data Quality, Reconstru	2.5.1 Simulation Programs	Non-US	Non-US Total								1.35	4.00	6.80
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	US	LBNL	KE	KLEIN,SPENCER			co-chair of Diffuse WG			0.25	0.25	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	US	PSU	PO	KOSKINEN, JASON			Coordinate Deep Core reconstruction for production			0.12	0.12	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	US	PSU	PO	PSU PO			develop starting track reconstruction			0.08	0.08	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	US	PSU	GR	HA, CHANG HYON			develop starting track reconstruction			0.13	0.13	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	US	SUBR	KE	FAZELY, ALI			Reconstruction/ Analysis tools			0.15	0.15	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	US	SUBR	KE	IMLAY, RICHARD			Reconstruction/ Analysis tools			0.15	0.15	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	US	UAA	KE	RAWLINS, KATHERINE			flat-ntuple; muon-bundle-reco; Snow correction for IceTop			0.30	0.30	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	US	UMD	PO	WISSING, HENRIKE			develop & test reconstruction			0.25	0.25	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	US	UMD	GR	REDL, PETER			Reconstruction/ Analysis tools			0.25	0.25	
2.5 Data Quality, Reconstru	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, Reconstru	2.5.2 Reconstruction/ Analysis	US	UW	GR	DUMM, JONATHAN			Reconstruction Tools			0.15	0.15	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	US	UW	GR	RODRIGUES, JOAO-PAULO			Supernova simulation / moun energy reconstruction			0.20	0.20	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	US	UWRF	KE	MADSEN, JIM			Cosmic ray shower simulations and reconstruction			0.10	0.10	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	US	UWRF	SC	TAMBURRO, ALESSIO			Shower simulations, TankTop simulation			0.20	0.20	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	US	US Total								2.23	2.23	
2.5.1 Program Management	2.5.2 Reconstruction/ Analysis	Non-US	RWTH	PO	BOERSMA, DAVID RWTH			Reconstruction Coordinator			0.15	0.15	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	CHIBA	KE	CHIBA KE			Maintain Romeo, EHE Simulations			0.20	0.20	
2.5 Data Quality, Reconstru	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, Reconstru	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, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	DESY	GR	MIDDELL, EIKE			Cascade Reconstruction			0.30	0.30	
2.5 Data Quality, Reconstru	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, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	RWTH	GR	RWTH GR			Reconstruction Software			0.30	0.30	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	RWTH	GR	WALLRAFF, MARIUS			New Feature Extractor			0.50	0.50	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	SU	SC	SEO, SEON-HEE			Photonics/Simulation Work			0.15	0.15	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	VUB	KE	VUB KE			development of reconstruction tools (IcePack framework)			0.25	0.25	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	VUB	PO	BOSE, DEBANJAN			muon track reconstruction in IceCube and DeepCore, waveform feature extractor			0.25	0.25	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	VUB	PO	LABARE, MATHIEU			muon track reconstruction in IceCube and DeepCore			0.13	0.13	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	VUB	PO	SINGH, KALPANA			muon track reconstruction in IceCube and DeepCore, waveform feature extractor			0.13	0.13	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	ALBERTA	KE	GRANT, DARREN			Maintenance of IceCube-Photonics interface			0.10	0.10	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	ALBERTA	PO	ALBERTA, PO			Maintenance of IceCube-Photonics interface			0.30	0.30	
2.5 Data Quality, Reconstru	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, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	MAINZ	GR	LUNEMANN, JAN			Reconstruction Tools			0.20	0.20	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	HUMBOLDT	SC	HUMB SC			Reconstruction/ Analysis tools			0.10	0.10	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	BONN	GR	UBONN GR			Reconstruction/ Analysis tools			0.20	0.20	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	BONN	GR	PANKNIN, SEBASTIAN			IC-40 L3 processing			0.20	0.20	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	Non-US Total								4.60	4.60	
2.5 Data Quality, Reconstru	2.5.2 Reconstruction/ Analysis	Non-US	Non-US Total								2.23	4.60	6.83

IceCube M&O Staffing Matrix sort by WBS and Tasks v9.0 2010.0915

WBS L2	WBS L3	US / Non-US	Institution	Labor 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	TE Technician				
CS Computer Science Eng.	KE Key Personnel/Faculty	SC Scientist	WO Winterover									
EN Engineer	MA Management	SE Senior Engineer										
2.5 Data Quality, Reconstru	2.5.3 Data Quality	US	OSU	PO	ROTT, CARSTEN		Data Quality		0.10		0.10	
2.5 Data Quality, Reconstru	2.5.3 Data Quality	US	UA	KE	WILLIAMS, DAWN		Data Quality Lead		0.15		0.15	
2.5 Data Quality, Reconstru	2.5.3 Data Quality	US	US Total						0.25		0.25	
2.5 Data Quality, Reconstru	2.5.3 Data Quality	Non-US	MPI	PO	MPI PO		Data Quality & DeepCore			0.60	0.60	
2.5 Data Quality, Reconstru	2.5.3 Data Quality	Non-US	VUB	KE	VUB KE		data quality verification		0.25		0.25	
2.5 Data Quality, Reconstru	2.5.3 Data Quality	Non-US	VUB	PO	STRAHLER, ERIK		verification Deep Core data quality		0.25		0.25	
2.5 Data Quality, Reconstru	2.5.3 Data Quality	Non-US	VUB	PO	BOSE, DEBANJAN		verification Deep Core data quality		0.25		0.25	
2.5 Data Quality, Reconstru	2.5.3 Data Quality	Non-US	VUB	PO	LABARE, MATHIEU		verification Deep Core data quality		0.13		0.13	
2.5 Data Quality, Reconstru	2.5.3 Data Quality	Non-US	VUB	PO	SINGH, KALPANA		verification Deep Core data quality		0.13		0.13	
2.5 Data Quality, Reconstru	2.5.3 Data Quality	Non-US	Non-US Total						1.60		1.60	
2.5 Data Quality, Reconstru	2.5.3 Data Quality	WBS L3							0.25	1.60	1.85	
2.5 Data Quality, Reconstru	2.5.4 Offline Data Processing	US	UW	SC	HILL, GARY		Offline processing		0.25		0.25	
2.5 Data Quality, Reconstru	2.5.4 Offline Data Processing	US	UW	GR	DUMM, JONATHAN		Offline Data Processing		0.15		0.15	
2.5 Data Quality, Reconstru	2.5.4 Offline Data Processing	US	US Total						0.25	0.15	0.40	
2.5 Data Quality, Reconstru	2.5.4 Offline Data Processing	WBS L3							0.25	0.15	0.40	
2.5 Data Quality, Reconstru	WBS L2 Total								1.60	6.63	8.30	
Grand Total									31.51	20.75	28.06	80.31