

IceCube M&O Staffing Matrix by WBS and Tasks v8.0 2010.0323.xls

WBS L2	WBS L3	Institution	U.S. / Non U.S.	Labor Cat.	Names	Tasks	NSF M&O Core	NSF MRE Pre Ops.	U.S. IN-KIND	Non U.S. In-Kind	Grand Total
2.1 Program Mgt.	2.1.1 Administration	DESY	Non U.S.	KE	SPIERING, CHRISTIAN	ExecCom member				0.20	0.20
2.1 Program Mgt.	2.1.1 Administration	DESY	Non U.S.	Inst. Total						0.20	0.20
2.1 Program Mgt.	2.1.1 Administration	GTECH	U.S.	KE	TABOADA, IGNACIO	Chair of speakers' committee			0.25		0.25
2.1 Program Mgt.	2.1.1 Administration	GTECH	U.S.	Inst. Total					0.25		0.25
2.1 Program Mgt.	2.1.1 Administration	LBNL	U.S.	KE	KLEIN,SPENCER	Supervise LBNL effort	0.05				0.05
2.1 Program Mgt.	2.1.1 Administration	LBNL	U.S.	Inst. Total			0.05				0.05
2.1 Program Mgt.	2.1.1 Administration	MPI	Non U.S.	KE	RESCONI, ELISA	Analysis Coordinator				0.50	0.50
2.1 Program Mgt.	2.1.1 Administration	MPI	Non U.S.	Inst. Total						0.50	0.50
2.1 Program Mgt.	2.1.1 Administration	PSU	U.S.	KE	COWEN, DOUG	ExecCom member			0.20		0.20
2.1 Program Mgt.	2.1.1 Administration	PSU	U.S.	PO	TOALE, PATRICK	Software Coordinator			0.75		0.75
2.1 Program Mgt.	2.1.1 Administration	PSU	U.S.	Inst. Total				0.75	0.20		0.95
2.1 Program Mgt.	2.1.1 Administration	RWTH	Non U.S.	KE	WIEBUSCH, CHRISTOPHER	Coordinate BMBF Funding				0.10	0.10
2.1 Program Mgt.	2.1.1 Administration	RWTH	Non U.S.	Inst. Total						0.10	0.10
2.1 Program Mgt.	2.1.1 Administration	SU	Non U.S.	KE	HULTH, PER OLOF	ExecCom member				0.20	0.20
2.1 Program Mgt.	2.1.1 Administration	SU	Non U.S.	KE	HULTH, PER OLOF	ICB Member				0.05	0.05
2.1 Program Mgt.	2.1.1 Administration	SU	Non U.S.	KE	HULTH, PER OLOF	Outreach				0.15	0.15
2.1 Program Mgt.	2.1.1 Administration	SU	Non U.S.	KE	WALCK, CHRISTIAN	Pubcom member				0.10	0.10
2.1 Program Mgt.	2.1.1 Administration	SU	Non U.S.	SC	FINLEY, CHAD SU	Coordination with LIGO				0.10	0.10
2.1 Program Mgt.	2.1.1 Administration	SU	Non U.S.	Inst. Total						0.60	0.60
2.1 Program Mgt.	2.1.1 Administration	UBOCHUM	Non U.S.	KE	BECKER, JULIA	Pubcom member				0.10	0.10
2.1 Program Mgt.	2.1.1 Administration	UBOCHUM	Non U.S.	Inst. Total						0.10	0.10
2.1 Program Mgt.	2.1.1 Administration	UBONN	Non U.S.	KE	KOWALSKI, MAREK	Pubcom member				0.10	0.10
2.1 Program Mgt.	2.1.1 Administration	UBONN	Non U.S.	AD	UBONN AD	Host Fall Collaboration Meeting				0.10	0.10
2.1 Program Mgt.	2.1.1 Administration	UBONN	Non U.S.	Inst. Total						0.20	0.20
2.1 Program Mgt.	2.1.1 Administration	UCB	U.S.	KE	PRICE, BUFORD	Speakers Comm member			0.10		0.10
2.1 Program Mgt.	2.1.1 Administration	UCB	U.S.	SC	WOSCHNAGG, KURT	Speakers Comm member			0.10		0.10
2.1 Program Mgt.	2.1.1 Administration	UCB	U.S.	Inst. Total					0.20		0.20
2.1 Program Mgt.	2.1.1 Administration	UD	U.S.	KE	GAISSER, TOM	Spokesperson				0.30	0.30
2.1 Program Mgt.	2.1.1 Administration	UD	U.S.	Inst. Total						0.30	0.30
2.1 Program Mgt.	2.1.1 Administration	ULB	Non U.S.	KE	BERTRAND, DANIEL	ExecCom member				0.20	0.20
2.1 Program Mgt.	2.1.1 Administration	ULB	Non U.S.	Inst. Total						0.20	0.20
2.1 Program Mgt.	2.1.1 Administration	UM	Non U.S.	KE	Köpke, Lutz	ExecCom member				0.15	0.15
2.1 Program Mgt.	2.1.1 Administration	UM	Non U.S.	Inst. Total						0.15	0.15
2.1 Program Mgt.	2.1.1 Administration	UMD	U.S.	KE	Sullivan, Greg	ExecCom member			0.20		0.20
2.1 Program Mgt.	2.1.1 Administration	UMD	U.S.	PO	OLIVAS, ALEX	Pubcom member			0.10		0.10
2.1 Program Mgt.	2.1.1 Administration	UMD	U.S.	Inst. Total					0.30		0.30
2.1 Program Mgt.	2.1.1 Administration	UU	Non U.S.	KE	BOTNER, OLGA	Outreach				0.05	0.05
2.1 Program Mgt.	2.1.1 Administration	UU	Non U.S.	KE	BOTNER, OLGA	Pubcom Chair				0.40	0.40
2.1 Program Mgt.	2.1.1 Administration	UU	Non U.S.	KE	HALLGREN, ALLAN	Outreach				0.05	0.05
2.1 Program Mgt.	2.1.1 Administration	UU	Non U.S.	KE	HALLGREN, ALLAN	Speakers Comm member				0.10	0.10
2.1 Program Mgt.	2.1.1 Administration	UU	Non U.S.	Inst. Total						0.60	0.60
2.1 Program Mgt.	2.1.1 Administration	UW	U.S.	KE	HALZEN, FRANCIS	Principle Investigator	0.08		0.33		0.42
2.1 Program Mgt.	2.1.1 Administration	UW	U.S.	KE	KARLE, ALBRECHT	Associate Director for Science	0.08		0.33		0.42
2.1 Program Mgt.	2.1.1 Administration	UW	U.S.	KE	WESTERHOFF, STEFAN	Pubcom member			0.10		0.10
2.1 Program Mgt.	2.1.1 Administration	UW	U.S.	KE	YECK, JAMES	Project Director	0.75				0.75
2.1 Program Mgt.	2.1.1 Administration	UW	U.S.	SC	HILL, GARY	Weekly call, ICC support			0.20		0.20
2.1 Program Mgt.	2.1.1 Administration	UW	U.S.	AD	UW AD	Administrative Support	0.50				0.50
2.1 Program Mgt.	2.1.1 Administration	UW	U.S.	AD	UW AD	Host Spring collaboration meeting			0.50		0.50
2.1 Program Mgt.	2.1.1 Administration	UW	U.S.	MA	MERCK, MARTIN	Computing Infrastructure Management	1.00				1.00
2.1 Program Mgt.	2.1.1 Administration	UW	U.S.	MA	PELES, ADI	Resource Coordinator	0.50				0.50
2.1 Program Mgt.	2.1.1 Administration	UW	U.S.	Inst. Total			2.92		1.47		4.38
2.1 Program Mgt.	2.1.1 Administration	WUPPERTAL	Non U.S.	KE	HELBING, KLAUS	Speakers Comm member				0.10	0.10
2.1 Program Mgt.	2.1.1 Administration	WUPPERTAL	Non U.S.	Inst. Total						0.10	0.10
2.1 Program Mgt.	2.1.1 Administration	WBS L3 Total					2.97	0.75	2.72	2.75	9.18
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	DESY	Non U.S.	GR	DESY GR	Acoustic R&D Support				0.10	0.10
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	DESY	Non U.S.	Inst. Total						0.10	0.10
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	EPFL	Non U.S.	KE	EPFL KE	Acoustic R&D Support				0.10	0.10
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	EPFL	Non U.S.	Inst. Total						0.10	0.10
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	KU	U.S.	KE	Besson, Dave	EMI - Radio R&D			0.10		0.10
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	KU	U.S.	Inst. Total					0.10		0.10
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	RWTH	Non U.S.	SC	RWTH SC	Acoustic R&D Support				0.10	0.10
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	RWTH	Non U.S.	Inst. Total						0.10	0.10
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	UGENT	Non U.S.	SC	UGENT SC	Acoustic R&D Support				0.05	0.05
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	UGENT	Non U.S.	GR	UGENT GR	Acoustic R&D Support				0.05	0.05
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	UGENT	Non U.S.	Inst. Total						0.10	0.10
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	ULB	Non U.S.	KE	HANSON, KAEL ULB	EMI/R&D				0.10	0.10
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	ULB	Non U.S.	Inst. Total						0.10	0.10
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	UMD	U.S.	KE	HOFFMAN, KARA	Detector R&D			0.20		0.20
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	UMD	U.S.	Inst. Total					0.20		0.20
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	UU	Non U.S.	KE	HALLGREN, ALLAN	Acoustic R&D Support				0.20	0.20
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	UU	Non U.S.	Inst. Total						0.20	0.20
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	UW	U.S.	SC	LANDSMAN, YAEL HAGAR	Science Support	0.25				0.25
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	UW	U.S.	EN	UW EN	Engineering Support	0.10				0.10
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	UW	U.S.	SE	LAUNDRIE, ANDREW	EMI, Instrumentation, I/F	0.25				0.25
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	UW	U.S.	SE	LAUNDRIE, ANDREW	Engineering Support	0.65				0.65
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	UW	U.S.	SE	SANDSTROM, PERRY	EMI, Instrumentation, I/F	0.25				0.25
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	UW	U.S.	SE	SANDSTROM, PERRY	Engineering Support	0.25				0.25
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	UW	U.S.	TE	UW TE	EMI, Instrumentation, I/F	0.25				0.25
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	UW	U.S.	Inst. Total			2.00				2.00
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	WUPPERTAL	Non U.S.	KE	HELBING, KLAUS	R&D Lead				0.10	0.10
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	WUPPERTAL	Non U.S.	KE	WUPPERTAL KE	RFI				0.10	0.10
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	WUPPERTAL	Non U.S.	PO	KARG, TIMO	Acoustic Lead				0.10	0.10
2.1 Program Mgt.	2.1.2 Eng. and R&D Support	WUPPERTAL	Non U.S.	Inst. Total						0.30	0.30
2.1 Program Mgt.	2.1.2 Engineering and R&D Support	WBS L3 Total					2.00		0.30	1.00	3.30
2.1 Program Mgt.	2.1.3 USAP Support	UW	U.S.	MA	PAULOS, ROBERT	USAP Support	0.25				0.25
2.1 Program Mgt.	2.1.3 USAP Support	UW	U.S.	Inst. Total			0.25				0.25
2.1 Program Mgt.	2.1.3 USAP Support	WBS L3 Total					0.25				0.25

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WBS L2	WBS L3	Institution	U.S. / Non U.S.	Labor Cat.	Names	Tasks	NSF M&O Core	NSF MRE Pre Ops.	U.S. IN-KIND	Non U.S. In-Kind	Grand Total
2.1 Program Mgt.	2.1.4 Education & Outreach	OSU	U.S.	PO	OSU PO	Outreach			0.05		0.05
2.1 Program Mgt.	2.1.4 Education & Outreach	OSU	U.S.	Inst. Total					0.05		0.05
2.1 Program Mgt.	2.1.4 Education & Outreach	PSU	U.S.	KE	COWEN, DOUG	Education & Outreach			0.05		0.05
2.1 Program Mgt.	2.1.4 Education & Outreach	PSU	U.S.	KE	DEYOUNG, TYCE	Speakers Comm member			0.05		0.05
2.1 Program Mgt.	2.1.4 Education & Outreach	PSU	U.S.	Inst. Total					0.10		0.10
2.1 Program Mgt.	2.1.4 Education & Outreach	UMD	U.S.	KE	UMD KE	E&O			0.10		0.10
2.1 Program Mgt.	2.1.4 Education & Outreach	UMD	U.S.	Inst. Total					0.10		0.10
2.1 Program Mgt.	2.1.4 Education & Outreach	UW	U.S.	AD	MALKUS, EVELYN	Education & Outreach Coordination	0.75				0.75
2.1 Program Mgt.	2.1.4 Education & Outreach	UW	U.S.	AD	UW AD	Teachers	0.25				0.25
2.1 Program Mgt.	2.1.4 Education & Outreach	UW	U.S.	Inst. Total			1.00				1.00
2.1 Program Mgt.	2.1.4 Education & Outreach	UWRF	U.S.	KE	MADSEN, JIM	Teachers' program and UWRF Upward Bound			0.10		0.10
2.1 Program Mgt.	2.1.4 Education & Outreach	UWRF	U.S.	TE	UWRF TE	Teachers Program			0.15		0.15
2.1 Program Mgt.	2.1.4 Education & Outreach	UWRF	U.S.	Inst. Total					0.25		0.25
2.1 Program Mgt.	2.1.4 Education & Outreach	WBS L3 Total					1.00	0.50			1.50
2.1 Program Mgt.	WBS L2 Total						6.22	0.75	3.52	3.75	14.23
2.2 Detector Ops. & Maint.	2.2 Detector Ops. & Maint.	LBNL	U.S.	KE	NYGREN, DAVID R	Track Engine Trigger			0.10		0.10
2.2 Detector Ops. & Maint.	2.2 Detector Ops. & Maint.	LBNL	U.S.	Inst. Total					0.10		0.10
2.2 Detector Ops. & Maint.	2.2 Detector Ops. & Maint.	UW	U.S.	MA	LAITSCH, DENISE	Detector Operations Manager	0.88				0.88
2.2 Detector Ops. & Maint.	2.2 Detector Ops. & Maint.	UW	U.S.	Inst. Total			0.88				0.88
2.2 Detector Ops. & Maint.	2.2 Detector Ops. & Maint.	WBS L3 Total					0.88	0.10			0.98
2.2 Detector Ops. & Maint.	2.2.1 Run Coordination	UBONN	Non U.S.	PO	Boeser Sebastian	Run coordinator				0.50	0.50
2.2 Detector Ops. & Maint.	2.2.1 Run Coordination	UBONN	Non U.S.	Inst. Total						0.50	0.50
2.2 Detector Ops. & Maint.	2.2.1 Run Coordination	UC	Non U.S.	GR	UC GR	Flasher Runs			0.10		0.10
2.2 Detector Ops. & Maint.	2.2.1 Run Coordination	UC	Non U.S.	Inst. Total					0.10		0.10
2.2 Detector Ops. & Maint.	2.2.1 Run Coordination	UW	U.S.	SC	KRASBERG, MARK	Winterovers coordinator	0.25				0.25
2.2 Detector Ops. & Maint.	2.2.1 Run Coordination	UW	U.S.	WO	UW WO	Operate Detector (Winter-Overs)	3.00				3.00
2.2 Detector Ops. & Maint.	2.2.1 Run Coordination	UW	U.S.	Inst. Total			3.25				3.25
2.2 Detector Ops. & Maint.	2.2.1 Run Coordination	WBS L3 Total					3.25		0.60		3.85
2.2 Detector Ops. & Maint.	2.2.10 SuperNova Operations	UM	Non U.S.	GR	Kroll, Gösta	SuperNova Operations			0.50		0.50
2.2 Detector Ops. & Maint.	2.2.10 SuperNova Operations	UM	Non U.S.	GR	ROTHMAIER, FLORIAN	SuperNova Operations			0.20		0.20
2.2 Detector Ops. & Maint.	2.2.10 SuperNova Operations	UM	Non U.S.	Inst. Total					0.70		0.70
2.2 Detector Ops. & Maint.	2.2.10 SuperNova Operations	WBS L3 Total							0.70		0.70
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	DESY	Non U.S.	SC	DESY SC	DAQ Firmware Support			0.30		0.30
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	DESY	Non U.S.	Inst. Total					0.30		0.30
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	LBNL	U.S.	CS	BEATTIE, KEITH S	Maintain DAQ Software Systems (incl. triggers, DOM SW, etc. up to Event Builder)	0.25				0.25
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	LBNL	U.S.	EN	STEZELBERGER, THORSTEN	Maintain DAQ Hardware (Hubs, DOR, Clocks, GPS,...)	0.15				0.15
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	LBNL	U.S.	Inst. Total			0.40				0.40
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	UD	U.S.	KE	UD KE	DAQ Monitoring			0.05		0.05
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	UD	U.S.	Inst. Total					0.05		0.05
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	ULB	Non U.S.	KE	HANSON, KAEL ULB	Data Acquisition			0.20		0.20
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	ULB	Non U.S.	Inst. Total					0.20		0.20
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	UW	U.S.	SC	KRASBERG, MARK	DOM Cal Maintenance, DOM Monitoring and Troubleshooting	0.35				0.35
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	UW	U.S.	SC	KRASBERG, MARK	Provide Real-time System Monitoring and Paging	0.20				0.20
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	UW	U.S.	SC	WENDT, CHRISTOPHER	DOM CAL Maintenance	0.25				0.25
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	UW	U.S.	GR	Weaver, Christopher	DOM CAL Maintenance			0.20		0.20
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	UW	U.S.	CS	JACOBSEN, JOHN (NPX)	Maintain DAQ Hardware (Hubs, DOR, Clocks, GPS,...)			0.15		0.15
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	UW	U.S.	SE	GLOWACKI, DAVID	Maintain DAQ Software Systems (incl. triggers, DOM SW, etc. up to Event Builder)	1.00				1.00
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	UW	U.S.	SE	SANDSTROM, PERRY	Maintain DAQ Hardware (Hubs, DOR, Clocks, GPS,...)	0.25				0.25
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	UW	U.S.	Inst. Total			2.05	0.15	0.20		2.40
2.2 Detector Ops. & Maint.	2.2.2 Data Acquisition	WBS L3 Total					2.45	0.15	0.25	0.50	3.35
2.2 Detector Ops. & Maint.	2.2.3 Online Filter (PnF)	UMD	U.S.	SC	BLAUFUSS, ERIK	Maintain PnF Software and Online Filters	0.20				0.20
2.2 Detector Ops. & Maint.	2.2.3 Online Filter (PnF)	UMD	U.S.	SC	SCHMIDT, TORSTEN	Maintain PnF Software and Online Filters	0.25				0.25
2.2 Detector Ops. & Maint.	2.2.3 Online Filter (PnF)	UMD	U.S.	GR	REDL, PETER	Online Filter Testing			0.25		0.25
2.2 Detector Ops. & Maint.	2.2.3 Online Filter (PnF)	UMD	U.S.	Inst. Total			0.45		0.25		0.70
2.2 Detector Ops. & Maint.	2.2.3 Online Filter (PnF)	WBS L3 Total					0.45		0.25		0.70
2.2 Detector Ops. & Maint.	2.2.4 SPS Operations	UW	U.S.	CS	SOUNDARAPANDIAN, KARTHIK	Maintain South Pole Computing Hardware Infrastructure and operating systems	0.75				0.75
2.2 Detector Ops. & Maint.	2.2.4 SPS Operations	UW	U.S.	EN	WISNIEWSKI, PAUL	Networking and Security Maintenance	0.25				0.25
2.2 Detector Ops. & Maint.	2.2.4 SPS Operations	UW	U.S.	SE	SANDSTROM, PERRY	Maintain South Pole Computing Hardware Infrastructure and operating systems	0.25				0.25
2.2 Detector Ops. & Maint.	2.2.4 SPS Operations	UW	U.S.	Inst. Total			1.25				1.25
2.2 Detector Ops. & Maint.	2.2.4 SPS Operations	WBS L3 Total					1.25				1.25
2.2 Detector Ops. & Maint.	2.2.5 SPTS Operations	UW	U.S.	CS	SOUNDARAPANDIAN, KARTHIK	Maintain South Pole Test System Hardware and Operating Systems	0.25				0.25
2.2 Detector Ops. & Maint.	2.2.5 SPTS Operations	UW	U.S.	EN	UW EN	Maintain South Pole Test System Hardware and Operating Systems	0.20				0.20
2.2 Detector Ops. & Maint.	2.2.5 SPTS Operations	UW	U.S.	SE	LAUNDRIE, ANDREW	Maintain South Pole Test System Hardware and Operating Systems	0.10				0.10
2.2 Detector Ops. & Maint.	2.2.5 SPTS Operations	UW	U.S.	Inst. Total			0.55				0.55
2.2 Detector Ops. & Maint.	2.2.5 SPTS Operations	WBS L3 Total					0.55				0.55
2.2 Detector Ops. & Maint.	2.2.6 Experiment Control	DESY	Non U.S.	GR	BAZO ALBA, JOSE	Decommission AMANDA				0.10	0.10
2.2 Detector Ops. & Maint.	2.2.6 Experiment Control	DESY	Non U.S.	Inst. Total						0.10	0.10
2.2 Detector Ops. & Maint.	2.2.6 Experiment Control	UW	U.S.	CS	JACOBSEN, JOHN (NPX)	IceCube Live Maintenance and Upgrades		0.85			0.85
2.2 Detector Ops. & Maint.	2.2.6 Experiment Control	UW	U.S.	TE	UW TE	IceCube Live Maintenance and Upgrades	0.15				0.15
2.2 Detector Ops. & Maint.	2.2.6 Experiment Control	UW	U.S.	Inst. Total			0.15	0.85			1.00
2.2 Detector Ops. & Maint.	2.2.6 Experiment Control	WBS L3 Total					0.15	0.85		0.10	1.10

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WBS L2	WBS L3	Institution	U.S. / Non U.S.	Labor Cat.	Names	Tasks	NSF M&O Core	NSF MRE Pre Ops.	U.S. IN-KIND	Non U.S. In-Kind	Grand Total
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	CAU	U.S.	KE	Japaridze, George	Monitoring shifts			0.02		0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	CAU	U.S.	Inst. Total					0.02		0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	CHIBA	Non U.S.	GR	CHIBA GR	Detector Monitoring				0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	CHIBA	Non U.S.	Inst. Total						0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	DESY	Non U.S.	SC	BENABDERRAHMANE, LOFTI	Deputy Monitoring Coordinator				0.20	0.20
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	DESY	Non U.S.	SC	DESY SC	Detector Monitoring				0.06	0.06
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	DESY	Non U.S.	GR	DESY GR	Detector Monitoring				0.12	0.12
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	DESY	Non U.S.	Inst. Total						0.38	0.38
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	DTMND	Non U.S.	GR	DTMD GR	Detector Monitoring				0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	DTMND	Non U.S.	Inst. Total						0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	EPFL	Non U.S.	GR	EPFL GR	Detector Monitoring				0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	EPFL	Non U.S.	Inst. Total						0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	GTECH	U.S.	GR	GTECH GR	Monitoring shifts			0.03		0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	GTECH	U.S.	Inst. Total					0.03		0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	HUMB	Non U.S.	SC	HUMB SC	Detector Monitoring				0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	HUMB	Non U.S.	Inst. Total						0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	KU	U.S.	KE	Besson, Dave	Monitoring shifts			0.02		0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	KU	U.S.	Inst. Total					0.02		0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	LBNL	U.S.	SC	KIRYLUK,JOANNA	BadDomList				0.20	0.20
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	LBNL	U.S.	PO	LBNL PO	Monitoring shifts				0.09	0.09
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	LBNL	U.S.	Inst. Total						0.29	0.29
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	MPI	Non U.S.	GR	MPI GR	Detector Monitoring				0.05	0.05
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	MPI	Non U.S.	Inst. Total						0.05	0.05
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	OSU	U.S.	PO	OSU PO	Monitoring shifts			0.02		0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	OSU	U.S.	PO	ROTT, CARSTEN	Maintain good run list			0.20		0.20
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	OSU	U.S.	GR	Davis, James	Monitoring shifts				0.01	0.01
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	OSU	U.S.	Inst. Total						0.23	0.23
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	PSU	U.S.	PO	PSU PO	Monitoring shifts			0.03		0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	PSU	U.S.	GR	PSU GR	Monitoring shifts				0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	PSU	U.S.	Inst. Total						0.06	0.06
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	RWTH	Non U.S.	GR	RWTH GR	Monitoring (3 weeks)				0.09	0.09
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	RWTH	Non U.S.	Inst. Total						0.09	0.09
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	SU	Non U.S.	GR	SU GR	Detector Monitoring				0.06	0.06
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	SU	Non U.S.	Inst. Total						0.06	0.06
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	SUBR	U.S.	SC	TER-ANTONYAN, SAMVEL	Detector Monitoring			0.02		0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	SUBR	U.S.	Inst. Total						0.02	0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UA	U.S.	GR	Xu, Donglian	Monitoring shifts			0.03		0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UA	U.S.	Inst. Total						0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UAA	U.S.	KE	Rawlins, Katherine	Monitoring shifts			0.02		0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UAA	U.S.	Inst. Total						0.02	0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UBOCHUM	Non U.S.	GR	UBOCHUM GR	Detector Monitoring				0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UBOCHUM	Non U.S.	Inst. Total						0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UBONN	Non U.S.	GR	UBONN GR	Detector Monitoring				0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UBONN	Non U.S.	Inst. Total						0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UC	Non U.S.	GR	UC GR	Detector Monitoring				0.02	0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UC	Non U.S.	Inst. Total						0.02	0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UCB	U.S.	SC	FILIMONOV, KIRILL	Coordinate Monitoring			0.50		0.50
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UCB	U.S.	SC	UCB SC	Monitoring shifts			0.02		0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UCB	U.S.	GR	UCB GR	Monitoring shifts			0.02		0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UCB	U.S.	Inst. Total						0.53	0.53
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UCI	U.S.	PO	Silverstri, Andrea	Monitoring shifts			0.01		0.01
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UCI	U.S.	GR	Hanson, Jordan	Monitoring shifts			0.01		0.01
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UCI	U.S.	Inst. Total						0.02	0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UD	U.S.	PO	Kuwabara, Takao	Temp. & Pressure atmospheric monitoring			0.25		0.25
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UD	U.S.	Inst. Total						0.25	0.25
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UGENT	Non U.S.	GR	UGENT GR	Detector Monitoring				0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UGENT	Non U.S.	Inst. Total						0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	ULB	Non U.S.	GR	ULB GR	Detector Monitoring				0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	ULB	Non U.S.	Inst. Total						0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UM	Non U.S.	GR	SCHATTO, KAI	Monitoring work w/ K. Filimonov				0.30	0.30
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UM	Non U.S.	Inst. Total						0.30	0.30
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UMD	U.S.	PO	UMD PO	Monitoring shifts			0.03		0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UMD	U.S.	GR	UMD GR	Monitoring shifts			0.06		0.06
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UMD	U.S.	Inst. Total						0.09	0.09
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UMH	Non U.S.	GR	KOHNEN, GEORGE	Detector Monitoring				0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UMH	Non U.S.	Inst. Total						0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UOX	Non U.S.	SC	Ahlers, Markus	Detector Monitoring				0.02	0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UOX	Non U.S.	Inst. Total						0.02	0.02
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UU	Non U.S.	GR	UU GR	Detector Monitoring				0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UU	Non U.S.	Inst. Total						0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UW	U.S.	PO	UW PO	Monitoring shifts			0.12		0.12
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UW	U.S.	GR	BAKER, MICHAEL	Stability			0.10		0.10
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UW	U.S.	GR	UW GR	Monitoring shifts			0.12		0.12
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	UW	U.S.	Inst. Total						0.34	0.34
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	VUB	Non U.S.	GR	VUB GR	Detector Monitoring				0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	VUB	Non U.S.	Inst. Total						0.03	0.03
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	WUPPERTAL	Non U.S.	GR	WUPPERTAL GR	AURA, SPATS, surface antenna operations (RICE)			0.45		0.45
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	WUPPERTAL	Non U.S.	GR	WUPPERTAL GR	South Pole EMI Monitoring				0.15	0.15
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	WUPPERTAL	Non U.S.	Inst. Total						0.60	0.60
2.2 Detector Ops. & Maint.	2.2.7 Detector Monitoring	2.2.7 Detector Monitoring	WBS L3 Total						1.94	1.85	3.79

IceCube M&O Staffing Matrix by WBS and Tasks v8.0 2010.0323.xls

WBS L2	WBS L3	Institution	U.S. / Non U.S.	Labor Cat.	Names	Tasks	NSF M&O Core	NSF MRE Pre Ops.	U.S. IN-KIND	Non U.S. In-Kind	Grand Total
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	DESY	Non U.S.	GR	DESY GR	Flasher Analysis				0.10	0.10
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	DESY	Non U.S.	Inst. Total						0.10	0.10
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	GTECH	U.S.	GR	Tooker, Jonathan	Standard Candle Vertex and Energy Calibration			0.40		0.40
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	GTECH	U.S.	Inst. Total					0.40		0.40
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	LBNL	U.S.	SC	KIRYLK,JOANNA	Flasher Runs			0.10		0.10
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	LBNL	U.S.	Inst. Total					0.10		0.10
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	UA	U.S.	KE	Williams, Dawn	managing flasher runs and other calibrations (stage 2 geometry)			0.15		0.15
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	UA	U.S.	PO	Zarzhitzky, Pavel	taking flasher runs			0.20		0.20
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	UA	U.S.	GR	Xu, Donglian	geometry systematic			0.25		0.25
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	UA	U.S.	Inst. Total					0.60		0.60
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	UCB	U.S.	SC	WOSCHNAGG, KURT	Calibration Lead			0.15		0.15
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	UCB	U.S.	GR	DAGOSTINO, MICHELANGELO	Hole Ice			0.10		0.10
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	UCB	U.S.	Inst. Total					0.25		0.25
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	UW	U.S.	SC	WENDT, CHRISTOPHER	Prepare and Evaluate Flasher Calibrations. Evaluate (DomCal) Calibration Runs & update constants	0.28				0.28
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	UW	U.S.	GR	GLADSTONE, LAURA	Moon Shadow			0.15		0.15
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	UW	U.S.	GR	Santander, Marcos	Calibration with flashers			0.20		0.20
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	UW	U.S.	Inst. Total			0.28		0.35		0.63
2.2 Detector Ops. & Maint.	2.2.8 Detector Calibration	WBS L3 Total					0.28		1.70	0.10	2.08
2.2 Detector Ops. & Maint.	2.2.9 IceTop Operations	UD	U.S.	SC	UD SC	Coordinate IceTop Operations	1.00				1.00
2.2 Detector Ops. & Maint.	2.2.9 IceTop Operations	UD	U.S.	Inst. Total			1.00				1.00
2.2 Detector Ops. & Maint.	2.2.9 IceTop Operations	UWRF	U.S.	KE	SPICZAK, GLENN	IceTop tank Monitoring			0.03		0.03
2.2 Detector Ops. & Maint.	2.2.9 IceTop Operations	UWRF	U.S.	SC	Tamburro, Alessio	IceTop tank Monitoring			0.03		0.03
2.2 Detector Ops. & Maint.	2.2.9 IceTop Operations	UWRF	U.S.	Inst. Total					0.05		0.05
2.2 Detector Ops. & Maint.	2.2.9 IceTop Operations	WBS L3 Total					1.00		0.05		1.05
2.2 Detector Ops. & Maint.	WBS L2 Total						10.25	1.00	4.29	3.85	19.39
2.3 Computing & Data Mgt.	2.3 Computing & Data Mgt.	UW	U.S.	SE	UW SE	Computing & Data Coordinator	0.50				0.50
2.3 Computing & Data Mgt.	2.3 Computing & Data Mgt.	UW	U.S.	Inst. Total			0.50				0.50
2.3 Computing & Data Mgt.	2.3 Computing & Data Mgt.	WBS L3 Total					0.50				0.50
2.3 Computing & Data Mgt.	2.3.1 Core Software	RWTH	Non U.S.	SC	RWTH SC	Maintain Reconstruction Framework				0.10	0.10
2.3 Computing & Data Mgt.	2.3.1 Core Software	RWTH	Non U.S.	GR	RWTH GR	Maintain Reconstruction Framework				0.15	0.15
2.3 Computing & Data Mgt.	2.3.1 Core Software	RWTH	Non U.S.	Inst. Total						0.25	0.25
2.3 Computing & Data Mgt.	2.3.1 Core Software	ULB	Non U.S.	PO	Marotta, Alberto	Maintain and Operate Database Systems (I3OmDb)				0.20	0.20
2.3 Computing & Data Mgt.	2.3.1 Core Software	ULB	Non U.S.	Inst. Total						0.20	0.20
2.3 Computing & Data Mgt.	2.3.1 Core Software	UMD	U.S.	SC	SCHMIDT, TORSTEN	Maintain Core Analysis Framework (IceTray)	0.50				0.50
2.3 Computing & Data Mgt.	2.3.1 Core Software	UMD	U.S.	GR	Ehrlich, Ralf	Core Software			0.50		0.50
2.3 Computing & Data Mgt.	2.3.1 Core Software	UMD	U.S.	GR	UMD GR	Core Software			0.25		0.25
2.3 Computing & Data Mgt.	2.3.1 Core Software	UMD	U.S.	CS	UMD CS	Maintain Core Software Repository	0.25				0.25
2.3 Computing & Data Mgt.	2.3.1 Core Software	UMD	U.S.	TE	STRASZHEIM, TROY	Maintain Core Analysis Framework (IceTray)	0.88				0.88
2.3 Computing & Data Mgt.	2.3.1 Core Software	UMD	U.S.	Inst. Total			1.63		0.75		2.38
2.3 Computing & Data Mgt.	2.3.1 Core Software	UW	U.S.	TE	DIAZ-VELEZ, JUAN CARLOS	Simulation Programs: dipopia	0.80				0.80
2.3 Computing & Data Mgt.	2.3.1 Core Software	UW	U.S.	TE	FADIRAN, OLADIPO	Maintain Data Processing Software	0.20				0.20
2.3 Computing & Data Mgt.	2.3.1 Core Software	UW	U.S.	TE	UW TE	Maintain Data Processing Software	0.30				0.30
2.3 Computing & Data Mgt.	2.3.1 Core Software	UW	U.S.	Inst. Total			1.30				1.30
2.3 Computing & Data Mgt.	2.3.1 Core Software	WBS L3 Total					2.93		0.75	0.45	4.13
2.3 Computing & Data Mgt.	2.3.2 Data Storage & Transfer	UW	U.S.	TE	MACKENZIE, CYNTHIA	Transfer Data from S. Pole to UW Data Warehouse. Maintain Data Transfer and Warehouse Software	1.00				1.00
2.3 Computing & Data Mgt.	2.3.2 Data Storage & Transfer	UW	U.S.	TE	MEADE, PATRICK	Transfer Data from S. Pole to UW Data Warehouse. Maintain Data Transfer and Warehouse Software	0.50				0.50
2.3 Computing & Data Mgt.	2.3.2 Data Storage & Transfer	UW	U.S.	TE	MCGUIRE, PAUL	Maintain and Operate Data Storage Infrastructure	0.50				0.50
2.3 Computing & Data Mgt.	2.3.2 Data Storage & Transfer	UW	U.S.	TE	RICHARDS, JOHN	Maintain and Operate Data Storage Infrastructure	1.00				1.00
2.3 Computing & Data Mgt.	2.3.2 Data Storage & Transfer	UW	U.S.	TE	FADIRAN, OLADIPO	Transformation of Data for Long-Term Persistence and Archival, e.g., HDF5.	0.20				0.20
2.3 Computing & Data Mgt.	2.3.2 Data Storage & Transfer	UW	U.S.	TE	UW TE	Transformation of Data for Long-Term Persistence and Archival, e.g., HDF5.	0.30				0.30
2.3 Computing & Data Mgt.	2.3.2 Data Storage & Transfer	UW	U.S.	Inst. Total			3.50				3.50
2.3 Computing & Data Mgt.	2.3.2 Data Storage & Transfer	WBS L3 Total					3.50				3.50
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	DESY	Non U.S.	SC	DESY SC	Maintain Reconstruction Framework				0.10	0.10
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	DESY	Non U.S.	GR	DESY GR	Reconiciton Coordinator (acting), Maintain Reconstruction Framework				0.15	0.15
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	DESY	Non U.S.	TE	DESY TE	European Data Center -Distributed Computing and Labor				1.60	1.60
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	DESY	Non U.S.	Inst. Total						1.85	1.85
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	DTMND	Non U.S.	SC	PIELOTH, DAMIAN	Coordinate GRID computing in Germany				0.25	0.25
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	DTMND	Non U.S.	Inst. Total						0.25	0.25
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	PSU	U.S.	PO	PSU PO	Coordination and Support for Grid and distributed computing	0.25				0.25
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	PSU	U.S.	Inst. Total			0.25				0.25
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	SU	Non U.S.	SC	SU SC	Computing Resources				0.50	0.50
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	SU	Non U.S.	Inst. Total						0.50	0.50
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	SUBR	U.S.	SC	TER-ANTONYAN, SAMVEL	LONI Grid computing			0.30		0.30
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	SUBR	U.S.	Inst. Total					0.30		0.30
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	UMD	U.S.	TE	UMD TE	Coordination and Support for Grid and distributed computing	0.25				0.25
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	UMD	U.S.	Inst. Total			0.25				0.25
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	UMH	Non U.S.	GR	KOHNEN, GEORGE	IC database management				0.30	0.30
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	UMH	Non U.S.	Inst. Total						0.30	0.30

IceCube M&O Staffing Matrix by WBS and Tasks v8.0 2010.0323.xls

WBS L2	WBS L3	Institution	U.S. / Non U.S.	Labor Cat.	Names	Tasks	NSF M&O Core	NSF MRE Pre Ops.	U.S. IN-KIND	Non U.S. In-Kind	Grand Total	
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	UW	U.S.	EN	BARNET, STEVE	Maintain Core High Performance Computing Sys. Coordination, Support for Grid & distributed comp.	1.00				1.00	
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	UW	U.S.	EN	BOGEN, DAVID	Maintain Data Center Infrastructure	1.00				1.00	
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	UW	U.S.	EN	WISNIEWSKI, PAUL	Maintain Data Center Networking and Security	0.75				0.75	
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	UW	U.S.	TE	MCGUIRE, PAUL	Maintain Data Center Infrastructure	0.50				0.50	
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	UW	U.S.	TE	UW TE	Maintain Core High Performance Computing Systems	0.25				0.25	
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	UW	U.S.	Inst. Total			3.50				3.50	
2.3 Computing & Data Mgt.	2.3.3 Computing Resources	WBS L3 Total						4.00	0.30	2.90		7.20
2.3 Computing & Data Mgt.	2.3.4 Data Production Processing	RWTH	Non U.S.	GR	SCHUKRAFT, ANNE	Photonics Production				0.25	0.25	
2.3 Computing & Data Mgt.	2.3.4 Data Production Processing	RWTH	Non U.S.	Inst. Total						0.25	0.25	
2.3 Computing & Data Mgt.	2.3.4 Data Production Processing	UW	U.S.	PO	Toscano, Simona	Cascade data processing			0.35		0.35	
2.3 Computing & Data Mgt.	2.3.4 Data Production Processing	UW	U.S.	TE	MEADE, PATRICK	Unpacking, Decoding & Calibration of Raw Data in the North (Level1). Run Common Reconstructions on UW IceCube Compute Cluster (Level2)	0.50				0.50	
2.3 Computing & Data Mgt.	2.3.4 Data Production Processing	UW	U.S.	Inst. Total			0.50		0.35		0.85	
2.3 Computing & Data Mgt.	2.3.4 Data Production Processing	WBS L3 Total						0.50	0.35	0.25		1.10
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	DESY	Non U.S.	SC	DESY SC	Simulation Production Cluster				0.15	0.15	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	DESY	Non U.S.	GR	DESY GR	Simulation Production Cluster				0.35	0.35	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	DESY	Non U.S.	Inst. Total						0.50	0.50	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	DTMND	Non U.S.	GR	DTMD GR	Simulation Production				0.40	0.40	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	DTMND	Non U.S.	Inst. Total						0.40	0.40	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	GTECH	U.S.	PO	Tepe, Andreas	Simulation Production			0.20		0.20	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	GTECH	U.S.	Inst. Total					0.20		0.20	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	LBNL	U.S.	SC	KIRYLK,JOANNA	Simulation Production on PDSF			0.20		0.20	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	LBNL	U.S.	Inst. Total					0.20		0.20	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	PSU	U.S.	PO	LAFFEBRE, SVEN	Simulation Production			0.17		0.17	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	PSU	U.S.	GR	Dunkman, Matt	Simulation Production			0.17		0.17	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	PSU	U.S.	Inst. Total					0.33		0.33	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	RWTH	Non U.S.	SC	RWTH SC	Simulation Production on cluster/GRID				0.10	0.10	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	RWTH	Non U.S.	GR	RWTH GR	Simulation Production on cluster/GRID				0.85	0.85	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	RWTH	Non U.S.	Inst. Total						0.95	0.95	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	SU	Non U.S.	GR	JOHANSSON, HENRIK	GRID/Simulation production & development				0.20	0.20	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	SU	Non U.S.	Inst. Total						0.20	0.20	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	UD	U.S.	PO	Hussain, Shahid	IceTop Simulation Production			0.15		0.15	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	UD	U.S.	Inst. Total					0.15		0.15	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	ULB	Non U.S.	PO	Marotta, Alberto	Computer Cluster - simulation			0.30		0.30	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	ULB	Non U.S.	Inst. Total					0.30		0.30	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	UM	Non U.S.	GR	UM GR	Simulation Production			0.45		0.45	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	UM	Non U.S.	Inst. Total					0.45		0.45	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	UMD	U.S.	GR	CHRISTY, BRIAN	Simulation Production coordination			0.25		0.25	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	UMD	U.S.	Inst. Total					0.25		0.25	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	UW	U.S.	SC	DESIATI, PAOLO	Coordination of Simulation Production	0.70				0.70	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	UW	U.S.	PO	HOSHINA, K	Photon prop. Calibration			0.10		0.10	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	UW	U.S.	GR	EISCH, JONATHAN	IceTop Simulation Production			0.30		0.30	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	UW	U.S.	TE	FADIRAN, OLADIPO	Maintain Sim. Prod. configurations, manage test prod. and maintain web portal.	0.60				0.60	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	UW	U.S.	Inst. Total			1.30		0.40		1.70	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	VUB	Non U.S.	PO	Strahler, Erik	Vetting new sim. releases with test datasets & compare with experimental data at low level				0.50	0.50	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	VUB	Non U.S.	Inst. Total						0.50	0.50	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	ALBERTA	Non U.S.	KE	GRANT, DARREN	WestGrid computing				0.10	0.10	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	ALBERTA	Non U.S.	GR	ALBERTA GR	WestGrid computing				0.20	0.20	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	ALBERTA	Non U.S.	Inst. Total						0.30	0.30	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	WUPPERTAL	Non U.S.	PO	KARG, TIMO	Simulation Production				0.20	0.20	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	WUPPERTAL	Non U.S.	GR	WUPPERTAL GR	Simulation Production				0.20	0.20	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	WUPPERTAL	Non U.S.	Inst. Total						0.40	0.40	
2.3 Computing & Data Mgt.	2.3.5 Simulation Production	WBS L3 Total						1.30	1.53	4.00		6.83
2.3 Computing & Data Mgt.	WBS L2 Total							12.73	2.93	7.60		23.26
2.4 Triggering & Filtering	2.4.1 TFT Coordination	PSU	U.S.	KE	COWEN, DOUG	TFT Board member			0.10		0.10	
2.4 Triggering & Filtering	2.4.1 TFT Coordination	PSU	U.S.	Inst. Total					0.10		0.10	
2.4 Triggering & Filtering	2.4.1 TFT Coordination	UBONN	Non U.S.	KE	KOWALSKI, MAREK	TFT Board member				0.10	0.10	
2.4 Triggering & Filtering	2.4.1 TFT Coordination	UBONN	Non U.S.	Inst. Total						0.10	0.10	
2.4 Triggering & Filtering	2.4.1 TFT Coordination	UD	U.S.	KE	SECKEL, DAVID	TFT Board member			0.10		0.10	
2.4 Triggering & Filtering	2.4.1 TFT Coordination	UD	U.S.	Inst. Total					0.10		0.10	
2.4 Triggering & Filtering	2.4.1 TFT Coordination	ULB	Non U.S.	KE	HANSON, KAEL ULB	TFT Board member				0.10	0.10	
2.4 Triggering & Filtering	2.4.1 TFT Coordination	ULB	Non U.S.	Inst. Total						0.10	0.10	
2.4 Triggering & Filtering	2.4.1 TFT Coordination	UMD	U.S.	SC	BLAUFUSS, ERIK	Coordinate process for filter requests, bandwidth	0.30				0.30	
2.4 Triggering & Filtering	2.4.1 TFT Coordination	UMD	U.S.	GR	UMD GR	Prepare datasets for filter testing and common MC datasets for testing			0.20		0.20	
2.4 Triggering & Filtering	2.4.1 TFT Coordination	UMD	U.S.	Inst. Total			0.30		0.20		0.50	
2.4 Triggering & Filtering	2.4.1 TFT Coordination	UU	Non U.S.	KE	de los HEROS, CARLOS	TFT Board member				0.10	0.10	
2.4 Triggering & Filtering	2.4.1 TFT Coordination	UU	Non U.S.	Inst. Total						0.10	0.10	
2.4 Triggering & Filtering	2.4.1 TFT Coordination	UW	U.S.	KE	MONTARULLI, TERESA	TFT Board member			0.10		0.10	
2.4 Triggering & Filtering	2.4.1 TFT Coordination	UW	U.S.	Inst. Total					0.10		0.10	
2.4 Triggering & Filtering	2.4.1 TFT Coordination	WBS L3 Total						0.30	0.50	0.30		1.10
2.4 Triggering & Filtering	2.4.2 Physics Filters	ALBERTA	Non U.S.	GR	ALBERTA GR	DeepCore SMT3 trigger/veto filter				0.15	0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	ALBERTA	Non U.S.	Inst. Total						0.15	0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	BARBADOS	Non U.S.	KE	Seunarine, Suruj	Work on cascade filter				0.15	0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	BARBADOS	Non U.S.	Inst. Total						0.15	0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	CHIBA	Non U.S.	KE	YOSHIDA, SHIGERU	EHE WG Lead				0.25	0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	CHIBA	Non U.S.	GR	ONO, MIO	EHE Filters				0.15	0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	CHIBA	Non U.S.	Inst. Total						0.40	0.40	

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WBS L2	WBS L3	Institution	U.S. / Non U.S.	Labor Cat.	Names	Tasks	NSF M&O Core	NSF MRE Pre Ops.	U.S. IN-KIND	Non U.S. In-Kind	Grand Total	
2.4 Triggering & Filtering	2.4.2 Physics Filters	DESY	Non U.S.	GR	FRANKE, ROBERT	Online Filter for Alerts				0.15	0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	DESY	Non U.S.	GR	FRANKE, ROBERT	Rate Data Bank South Pole				0.10	0.10	
2.4 Triggering & Filtering	2.4.2 Physics Filters	DESY	Non U.S.	GR	MIDDELL, EIKE	Cascade Filter (IC-59)				0.10	0.10	
2.4 Triggering & Filtering	2.4.2 Physics Filters	DESY	Non U.S.	Inst. Total						0.35	0.35	
2.4 Triggering & Filtering	2.4.2 Physics Filters	HUMB	Non U.S.	SC	WALDENMAIER, TILO	CR-WG Filter				0.15	0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	HUMB	Non U.S.	SC	WALDENMAIER, TILO	CR-WG Lead				0.25	0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	HUMB	Non U.S.	SC	WALDENMAIER, TILO	ICC member for reconstruction				0.15	0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	HUMB	Non U.S.	Inst. Total						0.55	0.55	
2.4 Triggering & Filtering	2.4.2 Physics Filters	LBNL	U.S.	KE	KLEIN,SPENCER	Co. Chair of Cascade WG			0.25		0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	LBNL	U.S.	Inst. Total						0.25	0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	OSU	U.S.	PO	OSU PO	Filter: vertical events for oscillation analysis & Earth WIMPs			0.15		0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	OSU	U.S.	GR	Davis, James	Deep Core Filter			0.15		0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	OSU	U.S.	Inst. Total						0.30	0.30	
2.4 Triggering & Filtering	2.4.2 Physics Filters	PSU	U.S.	KE	COWEN, DOUG	Tau WG Chair			0.25		0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	PSU	U.S.	KE	DEYOUNG, TYCE	Deep Core WG - Co Chair			0.25		0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	PSU	U.S.	PO	KOSKINEN, JASON	develop and verify Deep Core filters			0.18		0.18	
2.4 Triggering & Filtering	2.4.2 Physics Filters	PSU	U.S.	GR	Adams, Laura	develop and verify Deep Core filters			0.18		0.18	
2.4 Triggering & Filtering	2.4.2 Physics Filters	PSU	U.S.	Inst. Total						0.85	0.85	
2.4 Triggering & Filtering	2.4.2 Physics Filters	RWTH	Non U.S.	PO	BOERSMA, DAVID	Gal Cen Filter (Moon Filter)			0.15		0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	RWTH	Non U.S.	PO	BOERSMA, DAVID	moon channel WG Co. Chair			0.25		0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	RWTH	Non U.S.	GR	HülB, Jan-Patrick	Downgoing Starting Filter			0.15		0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	RWTH	Non U.S.	Inst. Total						0.55	0.55	
2.4 Triggering & Filtering	2.4.2 Physics Filters	SU	Non U.S.	KE	HULTH, PER OLOF	Low Energy DeepCore WG Lead			0.25		0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	SU	Non U.S.	SC	FINLEY, CHAD	WG Lead			0.25		0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	SU	Non U.S.	SC	SEO, SEON-HEE	Develop & verify filters			0.05		0.05	
2.4 Triggering & Filtering	2.4.2 Physics Filters	SU	Non U.S.	GR	DANNINGER, MATTIAS	WIMP Trigger & Filter			0.15		0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	SU	Non U.S.	GR	JOHANSSON, HENRIK	UHE Trigger & Filter			0.10		0.10	
2.4 Triggering & Filtering	2.4.2 Physics Filters	SU	Non U.S.	Inst. Total						0.80	0.80	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UBONN	Non U.S.	KE	KOWALSKI, MAREK	cascaes WG Co-Lead			0.25		0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UBONN	Non U.S.	KE	KOWALSKI, MAREK	Point source WG Co-Lead			0.25		0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UBONN	Non U.S.	GR	FRANCKOWIAK, ANNA	Alert System for follow-up			0.20		0.20	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UBONN	Non U.S.	GR	PANKNIN, SEBASTIAN	IC-59 Pole Filters			0.05		0.05	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UBONN	Non U.S.	Inst. Total						0.75	0.75	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UCB	U.S.	SC	WOSCHNAGG, KURT	Diffuse / atomnu WG chair			0.25		0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UCB	U.S.	Inst. Total						0.25	0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UD	U.S.	PO	BERGHAUS, PATRICK	moun channel WG Co. Chair			0.25		0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UD	U.S.	Inst. Total						0.25	0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	ULB	Non U.S.	GR	ULB GR	Study of Tau Filters at South Pole			0.10		0.10	
2.4 Triggering & Filtering	2.4.2 Physics Filters	ULB	Non U.S.	Inst. Total						0.10	0.10	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UMD	U.S.	SC	BLAUFUSS, ERIK	GRB WG Chair			0.25		0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UMD	U.S.	PO	OLIVAS, ALEX	exotics- WG chair			0.25		0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UMD	U.S.	Inst. Total						0.50	0.50	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UU	Non U.S.	KE	de los HEROS, CARLOS	WIMP WG Lead			0.25		0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UU	Non U.S.	GR	ENGDEGARD, OLLE	Online filter development & testing			0.15		0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UU	Non U.S.	Inst. Total						0.40	0.40	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UW	U.S.	SC	MARUYAMA, REINA	Supernova WG Chair			0.25		0.25	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UW	U.S.	PO	Aguilar Sanchez Juan Antonio	muon filter			0.15		0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UW	U.S.	PO	Toscano, Simona	Cascade Online filter			0.15		0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UW	U.S.	GR	GLADSTONE, LAURA	Deep Core online Filter			0.15		0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UW	U.S.	GR	Whitehorn, Nathan	GRB Filter			0.15		0.15	
2.4 Triggering & Filtering	2.4.2 Physics Filters	UW	U.S.	Inst. Total						0.85	0.85	
2.4 Triggering & Filtering	2.4.2 Physics Filters	VUB	Non U.S.	KE	VUB KE	Verify Filters				0.20	0.20	
2.4 Triggering & Filtering	2.4.2 Physics Filters	VUB	Non U.S.	PO	VUB PO	Verify Filters				0.30	0.30	
2.4 Triggering & Filtering	2.4.2 Physics Filters	VUB	Non U.S.	Inst. Total						0.50	0.50	
2.4 Triggering & Filtering	2.4.2 Physics Filters	WUPPERTAL	Non U.S.	GR	WUPPERTAL GR	New SUSY Filter			0.20		0.20	
2.4 Triggering & Filtering	2.4.2 Physics Filters	WUPPERTAL	Non U.S.	Inst. Total						0.20	0.20	
2.4 Triggering & Filtering	2.4.2 Physics Filters	WBS L3 Total								3.25	4.90	8.15
2.4 Triggering & Filtering	WBS L2 Total						0.30		3.75	5.20	9.25	
2.5 Data Q., Reco. & Sim. Tools	2.5 Data Quality, Reco. & Sim. Tools	BARBADOS	Non U.S.	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 Q., Reco. & Sim. Tools	2.5 Data Quality, Reco. & Sim. Tools	BARBADOS	Non U.S.	Inst. Total						0.15	0.15	
2.5 Data Q., Reco. & Sim. Tools	2.5 Data Quality, Reco. & Sim. Tools	UC	Non U.S.	SC	GROSS, ANDREAS	Data Quality, Reco. & Sim. Tools Coordinator ("Low-level" Analysis Coordinator)			0.50		0.50	
2.5 Data Q., Reco. & Sim. Tools	2.5 Data Quality, Reco. & Sim. Tools	UC	Non U.S.	Inst. Total						0.50	0.50	
2.5 Data Q., Reco. & Sim. Tools	2.5 Data Quality, Reco. & Sim. Tools	WBS L3 Total								0.65	0.65	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	DTMND	Non U.S.	GR	Milke, Natalie	Simulation Programs: noise-generator			0.20		0.20	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	DTMND	Non U.S.	Inst. Total						0.20	0.20	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	LBNL	U.S.	PO	BUITIN,STIJN	DOM simulator & calibrator			0.35		0.35	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	LBNL	U.S.	PO	GERHARDT,LISA	Simulation Programs: cmc			0.20		0.20	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	LBNL	U.S.	Inst. Total						0.55	0.55	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	PSU	U.S.	PO	TOALE, PATRICK	maintain tau simulation tools			0.10		0.10	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	PSU	U.S.	Inst. Total						0.10	0.10	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	SU	Non U.S.	KE	HULTQVIST, KLAS	Photonics/Simulation Work, hit-maker			0.15		0.15	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	SU	Non U.S.	KE	WALCK, CHRISTIAN	Photonics/Simulation Work			0.05		0.05	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	SU	Non U.S.	SC	FINLEY, CHAD SU	Simulation Programs: neutrino-generator			0.20		0.20	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	SU	Non U.S.	Inst. Total						0.40	0.40	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	SUBR	U.S.	KE	FAZELY, ALI	GEANT Simulation			0.15		0.15	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	SUBR	U.S.	KE	Imlay, Richard	Simulation Programs			0.15		0.15	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	SUBR	U.S.	Inst. Total						0.30	0.30	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UA	U.S.	PO	Zarzhitzky, Pavel	Simulation verification			0.30		0.30	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UA	U.S.	Inst. Total						0.30	0.30	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UAA	U.S.	KE	Rawlins, Katherine	SPASE / IceTop simulation; flat n-tuple			0.40		0.40	
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UAA	U.S.	Inst. Total						0.40	0.40	

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WBS L2	WBS L3	Institution	U.S. / Non U.S.	Labor Cat.	Names	Tasks	NSF M&O Core	NSF MRE Pre Ops.	U.S. IN-KIND	Non U.S. In-Kind	Grand Total
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UBOCHUM	Non U.S.	PO	Dreyer, Jens	Simulation Programs: neutrino-generator				0.20	0.20
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UBOCHUM	Non U.S.	PO	Dreyer, Jens	Update MMC from Java to C++				0.25	0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UBOCHUM	Non U.S.	GR	Olivo, Maríno	Update MMC from Java to C++				0.25	0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UBOCHUM	Non U.S.	Inst. Total						0.70	0.70
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UCB	U.S.	SC	WOSCHNAGG, KURT	Maintain and Verify Simulation of Photon Propagation and update Ice Properties	0.50				0.50
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UCB	U.S.	Inst. Total			0.50				0.50
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UD	U.S.	PO	Hussain, Shahid	Ice Properties Simulation			0.30		0.30
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UD	U.S.	GR	Ruzybaev, Bakhtiyar	Ice Properties Simulation			0.30		0.30
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UD	U.S.	GR	Xu, Chen	Simulation Programs: sim-services			0.30		0.30
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UD	U.S.	Inst. Total					0.90		0.90
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UGENT	Non U.S.	SC	UGENT SC	Support IceTop Simulations, IceTop Calibrations, IceTop Reconstruction				0.10	0.10
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UGENT	Non U.S.	GR	UGENT GR	Support IceTop Simulations, IceTop Calibrations, IceTop Reconstruction				0.40	0.40
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UGENT	Non U.S.	Inst. Total						0.50	0.50
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UMD	U.S.	PO	OLIVAS, ALEX	Simulation Software Programs coordinator	0.40				0.40
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UMD	U.S.	PO	Wissing, Henrike	Maintain Detector Simulation (IceSim)			0.25		0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UMD	U.S.	GR	REDL, PETER	Maintain Detector Simulation (IceSim)			0.25		0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UMD	U.S.	Inst. Total			0.40		0.50		0.90
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UOX	Non U.S.	KE	SARKAR, SUBIR	Yellow Book				0.25	0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UOX	Non U.S.	SC	Ahlers, Markus	Yellow Book				0.25	0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UOX	Non U.S.	Inst. Total						0.50	0.50
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UU	Non U.S.	PO	MILLER, JONATHAN	Simulation Programs: photonics				0.20	0.20
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UU	Non U.S.	Inst. Total						0.20	0.20
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UW	U.S.	SC	CHIRKIN, DMITRY	Simulation Programs: mmc/mmc-icetray and ucr-icetray			0.20		0.20
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UW	U.S.	SC	HILL, GARY	Maintain and Verify Simulation of Photon Propagation and update Ice Properties	0.25				0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UW	U.S.	PO	ABBASI, RASHA	DST data checking			0.10		0.10
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UW	U.S.	PO	Aguilar Sanchez Juan Antonio	low level moun data verification (data/mc)			0.10		0.10
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UW	U.S.	PO	UW PO	Maintain IceSim			0.40		0.40
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UW	U.S.	GR	Santander, Marcos	Flasher Analysis			0.15		0.15
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UW	U.S.	GR	Whitehorn, Nathan	Photonics tables			0.10		0.10
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UW	U.S.	TE	DIAZ-VELEZ, JUAN CARLOS	Maintain Simulation Production Software	0.20				0.20
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	UW	U.S.	Inst. Total			0.45		1.05		1.50
2.5 Data Q., Reco. & Sim. Tools	2.5.1 Simulation Programs	WBS L3 Total					1.35		4.10	2.50	7.95
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	CHIBA	Non U.S.	KE	CHIBA KE	Maintain Romeo, EHE Simulations				0.20	0.20
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	CHIBA	Non U.S.	SC	CHIBA SC	Maintain Romeo, EHE Simulations, reco. projects (Portia), MC/Data comparison, Standard Candle Analysis				0.20	0.20
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	CHIBA	Non U.S.	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 Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	CHIBA	Non U.S.	Inst. Total						0.60	0.60
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	DESY	Non U.S.	GR	MIDDELL, EIKE	Cascade Reconstruction				0.10	0.10
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	DESY	Non U.S.	Inst. Total						0.10	0.10
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	EPFL	Non U.S.	SC	EPFL SC	SLF, Low Energy, Energy reconstruction (development)			0.25		0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	EPFL	Non U.S.	Inst. Total					0.25		0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	HUMB	Non U.S.	SC	HUMB SC	Reconstruction/ Analysis tools			0.50		0.50
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	HUMB	Non U.S.	Inst. Total					0.50		0.50
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	LBNL	U.S.	KE	KLEIN,SPENCER	co-chair of Diffuse WG			0.25		0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	LBNL	U.S.	Inst. Total					0.25		0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	PSU	U.S.	PO	LAFFEBRE, SVEN	Develop starting track reconstruction, coordinate Deep Core reconstruction for production			0.19		0.19
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	PSU	U.S.	GR	Adams, Laura	coordinate Deep Core reconstruction for production			0.06		0.06
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	PSU	U.S.	GR	Dunkman, Matt	develop starting track reconstruction			0.13		0.13
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	PSU	U.S.	Inst. Total					0.37		0.37
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	RWTH	Non U.S.	GR	RWTH GR	Reconstruction Software				0.30	0.30
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	RWTH	Non U.S.	GR	WALLRAFF, MARIUS	New Feature Extractor				0.50	0.50
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	RWTH	Non U.S.	Inst. Total						0.80	0.80
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	SU	Non U.S.	SC	SEO, SEON-HEE	Photonics/Simulation Work				0.15	0.15
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	SU	Non U.S.	Inst. Total						0.15	0.15
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	SUBR	U.S.	KE	FAZELY, ALI	Reconstruction/ Analysis tools			0.15		0.15
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	SUBR	U.S.	KE	Imlay, Richard	Reconstruction/ Analysis tools			0.15		0.15
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	SUBR	U.S.	Inst. Total					0.30		0.30
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	UBONN	Non U.S.	GR	UBONN GR	Reconstruction/ Analysis tools				0.20	0.20
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	UBONN	Non U.S.	Inst. Total						0.20	0.20
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	UM	Non U.S.	GR	Lünemann, Jan	Reconstruction Tools				0.20	0.20
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	UM	Non U.S.	Inst. Total						0.20	0.20
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	UMD	U.S.	PO	OLIVAS, ALEX	develop & test reconstruction			0.25		0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	UMD	U.S.	GR	REDL, PETER	Reconstruction/ Analysis tools			0.25		0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	UMD	U.S.	Inst. Total					0.50		0.50
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	UW	U.S.	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 Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	UW	U.S.	GR	DUMM, JONATHAN	Reconstruction Tools			0.15		0.15
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	UW	U.S.	GR	Rodrigues, Joao-Paulo	Supernova simulation / moun energy reconstruction			0.20		0.20
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	UW	U.S.	Inst. Total					0.65		0.65
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	UWRF	U.S.	KE	MADSEN, JIM	Cosmic ray shower simulations and reconstruction			0.10		0.10
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	UWRF	U.S.	SC	Abuzayyad, Tareq	Photon transport in-ice			0.25		0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	UWRF	U.S.	SC	Tamburro, Alessio	Shower simulations, TankTop simulation			0.25		0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	UWRF	U.S.	Inst. Total					0.60		0.60
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	ALBERTA	Non U.S.	KE	GRANT, DARREN	Maintenance of IceCube-Photonics interface				0.10	0.10
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	ALBERTA	Non U.S.	PO	ALBERTA, PO	Maintenance of IceCube-Photonics interface				0.30	0.30
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	ALBERTA	Non U.S.	GR	ALBERTA GR	Maintenance of IceCube-Photonics interface				0.40	0.40
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon/ Analysis tools	ALBERTA	Non U.S.	Inst. Total						0.80	0.80

IceCube M&O Staffing Matrix by WBS and Tasks v8.0 2010.0323.xls

WBS L2	WBS L3	Institution	U.S. / Non U.S.	Labor Cat.	Names	Tasks	NSF M&O Core	NSF MRE Pre Ops.	U.S. IN-KIND	Non U.S. In-Kind	Grand Total
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon./ Analysis tools	WUPPERTAL	Non U.S.	GR	WUPPERTAL GR	New SUSY Reconstruction, Simulation, Propagation, Monopole, Photonics				0.50	0.50
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon./ Analysis tools	WUPPERTAL	Non U.S.	Inst. Total						0.50	0.50
2.5 Data Q., Reco. & Sim. Tools	2.5.2 Recon./ Analysis tools	WBS L3 Total							2.67	4.10	6.77
2.5 Data Q., Reco. & Sim. Tools	2.5.3 Data Quality	MPI	Non U.S.	PO	MPI PO	Data Quality & DeepCore				0.60	0.60
2.5 Data Q., Reco. & Sim. Tools	2.5.3 Data Quality	MPI	Non U.S.	Inst. Total						0.60	0.60
2.5 Data Q., Reco. & Sim. Tools	2.5.3 Data Quality	OSU	U.S.	PO	ROTT, CARSTEN	Data Quality			0.40		0.40
2.5 Data Q., Reco. & Sim. Tools	2.5.3 Data Quality	OSU	U.S.	Inst. Total						0.40	0.40
2.5 Data Q., Reco. & Sim. Tools	2.5.3 Data Quality	UA	U.S.	KE	Williams, Dawn	Data Quality Lead			0.15		0.15
2.5 Data Q., Reco. & Sim. Tools	2.5.3 Data Quality	UA	U.S.	Inst. Total						0.15	0.15
2.5 Data Q., Reco. & Sim. Tools	2.5.3 Data Quality	WBS L3 Total							0.55	0.60	1.15
2.5 Data Q., Reco. & Sim. Tools	2.5.4 Offline Data Processing	UW	U.S.	SC	HILL, GARY	Offline processing	0.25				0.25
2.5 Data Q., Reco. & Sim. Tools	2.5.4 Offline Data Processing	UW	U.S.	GR	DUMM, JONATHAN	Offline Data Processing			0.15		0.15
2.5 Data Q., Reco. & Sim. Tools	2.5.4 Offline Data Processing	UW	U.S.	Inst. Total			0.25		0.15		0.40
2.5 Data Q., Reco. & Sim. Tools	2.5.4 Offline Data Processing	WBS L3 Total					0.25		0.15		0.40
2.5 Data Quality, Reco. & Sim. Tools	WBS L2 Total						1.60		7.47	7.85	16.92
Grand Total							31.09	1.75	21.96	28.25	83.04