IceCube M&O MoU SOW Summary v18 2015.0422.xlsx
Authors Contribution

v 18.0, April 15, 2015	Authors Head Count				IceCube Authors: M&O Responsibilities (FTE)					
Institution (Lead)	Ph.D. Authors	Faculty	Scientists / Post Docs	Ph.D. Students	WBS 2.1 Program Management	WBS 2.2 Detector Operations & Maintenance	WBS 2.3 Computing & Data Management	WBS 2.4 Triggering & Filtering	WBS 2.5 Data Quality, Reconstruction & Simulation Tools	Total
University of Alabama (Dawn Williams)	3	(2	1	1)		0.45	0.25	0.35	0.20	1.25
University of Alaska (Katherine Rawlins)	1	(1	0	0)		0.02		0.20	0.20	0.42
Clark Atlanta (George Japaridze)	1	(1	0	0)		0.02				0.02
Drexel University (Naoko Kurahashi Neilson)	1	(1	0	0)	0.05			0.30		0.35
Georgia Tech (Ignacio Taboada)	1	(1	0	1)		0.23		0.25		0.48
LBNL (Spencer Klein)	6	(4	2	3)	0.15	0.24	0.20	0.25	0.95	1.79
Michigan State University (Tyce DeYoung)	5	(2	3	2)	0.30	0.06	0.41	0.00	0.70	1.47
Ohio State University (James Beatty)	4	(1	3	0)		0.35	0.10	0.00	0.05	0.50
Pennsylvania State University (Doug Cowen)	4	(1	3	3)	0.40	0.82	0.33	0.47	0.92	2.94
South Dakota School (Xinhua Bai)	1	(1	0	1)	0.05	0.05			1.10	1.20
Southern University (Ali Fazely)	3	(2	1	0)		0.02	0.30		0.60	0.92
Stony Brook University (Joanna Kiryluk)	1	(1	0	2)	0.05	0.25		0.50	0.15	0.95
University of California, Berkeley (Buford Price)	3	(1	2	0)	0.40	0.27		0.25	0.38	1.30
University of California, Irvine (Steve Barwick)	1	(1	0	1)		0.02				0.02
University of Delaware (Tom Gaisser)	7	(4	3	2)	0.45	1.05	0.00	0.20	0.90	2.60
University of Kansas (Dave Besson)	1	(1	0	0)	0.10	0.02				0.12
University of Maryland (Greg Sullivan)	6	(3	3	4)	1.20	0.96	1.63	0.40	0.73	4.91
University of Wisconsin, River Falls (Jim Madsen)	3	(3	0	0)	0.60	0.20			0.20	1.00
University of Wisconsin, Madison (Albrecht Karle)	20	(6	14	11)	2.63	3.45	1.25	0.40	2.40	10.13
Yale University (Reina Maruyama)	1	(1	0	1)	0.05	0.10			0.60	0.75
U.S. Institutions Subtotal	**73**	**(38**	**35**	**32)**	**6.43**	**8.57**	**4.47**	**3.57**	**10.08**	**33.11**
DESY-Zeuthen (Markus Ackermann)	8	(6	2	10)	0.60	0.17	1.65	0.35	1.25	4.02
RWTH Aachen (Christopher Wiebusch)	2	(1	1	9)	1.10	0.37	1.00	0.30	0.80	3.57
Universität Dortmund (Wolfgang Rhode)	2	(1	1	3)		0.03	0.55	0.40	0.50	1.48
Universität Mainz (Lutz Köpke)	2	(2	0	7)	0.50	0.50	0.30	0.40	0.50	2.20
Universität Wuppertal (Klaus Helbing)	2	(1	1	7)	0.10	0.50	0.20	0.45	0.60	1.85
Humboldt Universität Berlin (H.Kolanoski_interim)	1	(1	0	5)	0.10			0.20	0.05	0.35
Universität Bochum (Julia Tjus)	2	(1	1	3)		0.03		0.10	0.20	0.33
Technische Universität München (Elisa Resconi)	3	(1	2	3)		0.05			0.60	0.65
Universite Libre de Bruxelles (Juan Antonio Aguilar)	3	(1	2	3)	0.10	1.12	0.20	0.45	0.25	2.12
Universite de Mons (Evelyne Daubie)	1	(0	1	0)		0.10	0.55			0.65
University of Gent (Dirk Ryckbosch)	3	(1	2	3)	0.10	0.03			0.40	0.53
Vrije Universiteit Brussel (Catherine de Clercq)	4	(2	2	5)	0.20	0.12		0.25	3.00	3.57
Stockholm University (Klas Hultqvist)	5	(4	1	4)	0.30	0.06		1.25	0.35	1.96
Uppsala University (Olga Botner)	5	(3	2	2)	0.80	0.13	0.20	0.60		1.73
University of Alberta (Darren, Grant)	3	(2	1	1)	0.95		0.95	0.20	0.60	2.70
University of Oxford (Subir Sarkar)	1	(1	0	0)	0.10	0.02				0.12
University of Canterbury (Jenni Adams)	1	(1	0	2)	0.05	0.05		0.40	0.10	0.60
University of Adelaide (Gary Hill)	2	(1	1	1)					1.90	1.90
Chiba University (Shigeru Yoshida)	7	(2	5	2)		0.03	0.20	0.40	1.05	1.68
Université de Genève (Teresa Montaruli)	2	(1	1	2)	0.20	0.20		0.50	0.85	1.75
Universität Erlangen-Nürnberg (A. Kappes)	1	(1	0	3)	0.50				0.50	1.00
Niels Bohr Institute (Jason Koskinen)	1	(1	0	2)	0.30	0.06	0.30	0.25	0.30	1.21
University of Toronto (Kenneth Clark)	1	(1	0	0)			0.35		0.10	0.45
Sungkyunkwan University (Carsten Rott)	2	(1	1	4)	0.20	0.03	0.00	0.45	0.20	0.88
Non-U.S. Institutions Subtotal	**64**	**(37**	**27**	**81)**	**6.20**	**3.60**	**6.45**	**6.95**	**14.10**	**37.30**
Total U.S. & Non-U.S.	**137**	**(75**	**62**	**113)**	**12.63**	**12.17**	**10.92**	**10.52**	**24.18**	**70.41**

Changes since last official version are colored red