List of BATS ancillary users over the entire duration of the BATS program. Those in bold are current or were in place for a significant fraction of the prior BATS award (Years 16-20).

Investigators	Institution	Funding Agency	Duration	Topic
J. Ammerman & J. Cotner	TAMU & U. Minnesota	NSF-CO	4/95 - 3/00	Microbial phosphorus cycling
A. Anbar	Univ. Rochester			Trace metal fluxes
R. Armstrong & J. Sarmiento	Princeton Univ.			Multi-element biogeochemical modelling
V. Asper	Univ. Southern Miss.	NSF-CO	1/92 - 12/94	Carbon & nitrogen export fluxes
K. Barbeau	Univ. California - Santa Cruz			Trace metals & Trichodesmium nitrogen fixation
N. Bates & A. Knap	BBSR	NSF-CO (2 proj.)	8/99 - 7/03	Dynamics of the inorganic carbon cycle
Beele				Bomb metal radionuclides
M. Bender & B. Luz	Princeton Univ. & Hebrew Univ. of Jerusalem			Oxygen triple isotope method
R. Bidigare, R. Andersen & M. Keller	Univ. Hawaii & Bigelow Lab for Ocean Sciences			HPLC pigments and phytoplankton composition
Bishop	Univ. South Florida			Leptocephali physiology
E. Boyle	**MIT**	**NSF-CO (2 proj.)**	**8/03 - 2/10**	**Lead in Seawater**
Boysen	UCSC			Coccolithophores as carbon flux tracers
M. Brzezinski & D. Nelson	UCSB & OSU	NSF-CO/BO	6/91 - 5/95	Silica cycling and export flux
K. Buesseler	WHOI			Thorium and colloid dynamics
K. Buesseler, A. Michaels & A. Knap	WHOI & BBSR			3D Calibration of traps with thorium
K. Buesseler, C. Lamborg, D. Siegel, D. Steinberg & M. Lomas	WHOI, UCSB, VIMS & BBSR	NSF-CandH2O	9/06 - 8/10	new engineering designs for NBST's
R. Byrne	Univ. South Florida			profiling pH meter
C. Carlson	BBSR	NSF-CO/BO	10/01 - 9/03	Bacterial and DOC dynamics
C. Carlson & S. Giovannoni	**UCSB & OSU**	**NSF-MCB (2 proj.)**	**6/99 - 5/08**	**Microbial genomics & biogeochemical processes**
S. Chisholm & R. Olson	MIT & WHOI	NSF-BO	3/91- 8/94	Picoplankton dynamics by flow cytometry
S. Chisholm	**MIT**	**NSF-BO**	**9/04 - 8/09**	**Genomics of Prochlorococcus populations**
T. Church & G. Kim	Univ. Delaware			Trace metal fluxes, radionuclide-based POC export
J. Cullen	Dalhousie Univ.			Phytoplankton dynamics
Colman	WHOI			Oxygen isotopes in inorganic phosphate
Connely	BBSR			Chromium dynamics in the Sargasso Sea
M. Conte	WHOI			Aerosol lipid distribution
J. Dacey, S. Wakeham & A. Michaels	WHOI, SkIO, BBSR	NSF-CO	10/91- 3/95	DMS dynamics
J. Dacey, D. Toole, N. Bates	**WHOI & BBSR**	**NSF-CO**	**9/04 - 8/08**	**Organic sulfur cycling in the Sargasso Sea**
G. DiTullio (U. Charleston)	College of Charleston			Dust enrichment experiments & phytoplankton growth
S. Doney & Large	Nat'l Center for Atm. Research			Biogeochemical and physical modelling
H. Ducklow & C. Carlson	Horn Point Env. Laboratory	NSF-BO/CO	9/90 - 9/94	Bacteria dynamics
Edmonds	MIT & WHOI			Iodine 129 in seawater
F. Ferrari	**Smithsonian Env. Research Center**			**Copepod sex ratios**
R. Francois	WHOI			Particulate Ba, Sr, S in seawater
D. Frye & T. Dickey	WHOI & UCSB			ALTOMOOR - Biogeochemical mooring
J. Fuhrman	Univ. Southern California			Bacterial dynamics
S. Giovannoni	OSU			Bacterial phylogeny
K. Gundersen	BBSR			Bacteria carbon and nitrogen cycling

G. Gust	Univ. Hamberg		11/89 - 10/91	Sediment trap hydrodynamics
Hays	Univ. Wales			Vertical migrant fluxes
D. Hansell & C. Carlson	BBSR			DOC and DON dynamics in the Sargasso Sea
G. Hurtt	Princeton Univ.			Biogeochemical modelling at BATS
H. Jannasch	MBARI			Moored nutrient sensors
W. Jenkins & S. Doney	WHOI	NSF-CO	9/02 - 8/07	Ocean Primary Production Paradox
T. Jickells	Univ. East Anglia			Iodine, iodate dynamics
R. Johnson	BBSR			Biological-physical modeling
D. Kadko	**Univ. Miami**	**NSF-CO**	**8/06 - 7/09**	**Mixed layer/thermocline interactions using Be-7**
D. Karl	Univ. Hawaii			Inorganic nutrient distributions
C. Keeling	**Scripps Inst. Oceanography**		**continuous**	**Surface CO_2 time-series**
D. Kirchman & R. Malstrom	Univ. Delaware	NSF-MCB	8/04 - 10/04	Bacterial specific DOM uptake
Kurz	Cornell Univ.			Silica in Aerosols
F. Lipschultz	BBSR	NSF-CO	5/91 - 10/94	Nitrogen cycling
M. Lomas, S. Dyhrman & J. Ammerman	**BBSR, WHOI, Rutgers**	**NSF-BO**	**5/05 - 4/09**	**Phytoplankton Phosphorus limitation**
Le Clercq	Centrum Isotopen Onderzoek			$DO^{14}C$
Mackie	Univ. Victoria			Salp physiology
L. Madin	WHOI			Zooplankton biomass dynamics
M. McKay, F. Bullerjohn, M. Lomas	**Bowling Green State Univ. & BBSR**	**NSF-MCB**	**9/07 - 8/10**	**Phosphorus deficiency bioreporter**
L. Merlivat	Univ. Paris			pCO_2 time series mooring
D. McGillicuddy & D. Siegel	WHOI & UCSB			3-D physical dynamics and biogeochemistry
A. Michaels	BBSR	NSF-BO	3/94 - 2/97	Acantharian population distributions
A. Michaels, D. Caron, E. Swanberg	BBSR, WHOI, IGBP			Symbiotic protozoa and carbon fluxes
B. Millard & B. Schmidt	WHOI			High precision CTD heads for Palace floats
S.B. Moran	URI			Pa-231 and Th-230
S.B. Moran & M. Lomas	URI & BBSR	NSF-CO	5/06 - 3/07	Phytoplankton & size-fractionated ^{234}Th export fluxes
N. Nelson, A. Michaels & D. Siegel	**UCSB & BBSR**	**NASA**	**continuous**	**Satellite Biogeochemisty**
N. Nelson, C. Carlson, D. Steinberg	BBSR	NSF-CO	9/99 - 8/94	CDOM dynamics
R. Olson	WHOI	NSF-BO	2/94 - 1/98	Picoplankton population distributions
K. Orcutt (BBSR)	BBSR			Nitrogen fixation at BATS
J. Price & J. Valdez	WHOI			Neutrally buoyant sediment traps
P. Quay	Univ. Washington	NSF-CO	10/03 - 9/07	$DI^{13}C$ dynamics
P. Sedwick, T. Church, E. Sholkovicz	**BBSR, UDel, WHOI**	**NSF-CO**	**2/06 - 1/09**	**Atmospheric iron deposition and speciation**
J. Sharp	Univ. Delaware	NSF-CO	4/04 - 3/07	DIN method comparison and standardization
C. Sheridan & D. Steinberg	SUNY - Stony Brook & BBSR			Trichodesmium community dynamics
E. Sholkovitz	WHOI			Rare earth element dynamics
D. Siegel, N. Nelson & A. Michaels	UCSB & BBSR			Bio-optical profiling
D. Siegel	UCSB			Eddy dynamics in Topex-Poseiden data at
D. Siegel, Garver , J. Sorensen & A. Michaels	UCSB & BBSR	NSF-CO	6/91 -12/94	Inherent optical properties
D. Sigman	Princeton Univ.	NSF-CO		^{15}N isotopes in DON

D. Steinberg	BBSR	NSF-BO	2/01 - 1/04	Vertical migrants and C, N, P fluxes
D. Steinberg, McClintock & Baker	BBSR	NSF-BO	7/97 - 6/99	Holoplankton chemical ecology
G. Stewart, S.B. Moran, M. Lomas	Queens College, URI, BBSR		11/06 - 3/07	Po export & phytoplankton communities
M. Taylor	Univ. British Columbia			Phytoplankton community structure
H. Trapido-Rosenthal	BBSR			Microbial genomics
Troy	Univ. Hawaii			Deep carbonate dissolution
H. Thierstein	ETH			Coccolithophore population distributions
R. Valliancourt, J. Marra, V. Lance	**Lamont Doherty Earth Observatory**	**NSF-BO**	**4/07 - 8/08**	**Diel photosynthetic quantum efficiency**
C. Venter	Inst. Biol. Energy Alternatives	DOE	1/04 - 5/04	Prokaryotic genomics
B. Van Mooy & M. Lomas	**WHOI & BBSR**	**NSF-CO**	**6/06 - 5/09**	**Phospho- and Sulfo-lipids in marine microbes**
S. Wakeham	Skidaway Inst. Oceanography			Distributions of lipid biomarkers
N. Waser	WHOI			Natural 32P and 33P cycling
O. Zafiriou	WHOI	NSF-CO	12/94 - 5/00	Deep ocean nitrite dynamics
J. Zehr	Rensellear Polytechnic Inst.			Nitrogenase genes at BATS and HOT