



Chris Park/AP Photo

Four killer whales leap out of the water while performing during SeaWorld's Shamu show in San Diego in 2006. SeaWorld is acknowledging that it sent a worker to infiltrate animal rights groups who opposed the theme park. SeaWorld Entertainment CEO Joel Manby said Thursday that the company will no longer use the practice to spy on opponents.

SeaWorld says it planted worker in animal rights group

By MIKE SCHNEIDER
Associated Press

ORLANDO, Fla. — SeaWorld acknowledged that it sent its own workers to infiltrate an animal rights group which opposed the practices of the theme park.

The development comes months after People for the Ethical Treatment of Animals accused a SeaWorld employee of trying to incite violence while posing as a fellow animal rights activist.

SeaWorld Entertainment CEO Joel Manby vowed Thursday to end the practice, but said that it had sent its employees to protect the safety of its employees and customers.

"We recognize the need to ensure that all of our security and other activities align with our core values and ethical standards," Manby said.

However, the company refused to say who had authorized the infiltration, how long it had been going on, or how many workers were used to infiltrate animal rights groups or other opponents. SeaWorld spokeswoman Aimee Jean-sonne Becka cited the confidential nature of its security practices.

The employee at the center of the accusations by PETA, Paul McComb, is still employed by SeaWorld but working in another

department, the company said Thursday.

PETA said last summer that its own investigation revealed that McComb, a human resource worker, attempted to incite protesters and had posted incendiary comments on social media while masquerading as an animal-rights activist since 2012.

PETA officials said Thursday that SeaWorld's refusal to fire McComb shows that it condones corporate spying. The group has been especially vocal in its criticism of SeaWorld since the 2013 documentary, "Blackfish," suggested the treatment of captive orcas provokes violent behavior.

Park attendance dropped after the release of the documentary, which chronicled events at the park leading up to the death of a SeaWorld trainer in 2010.

"The tawdry orca side-shows and despicable spying tactics are sinking SeaWorld's ship," said Tracy Reiman, PETA's executive vice president.

SeaWorld could face civil, and even criminal, legal exposure depending on the information it obtained from McComb about PETA and what the company did with the information, said Sharon Sandeen, a law professor at Mitchell Hamline School of Law in St. Paul, Minnesota.

Wildlife secrets revealed with advanced tracking tools

Hard-to-study animals easier to spy on now

By KEITH RIDLER
Associated Press

BOISE, Idaho — Solar-powered trackers on wings have recorded California condors soaring to 15,000 feet, while locators attached to humpback whales have revealed 1,000-foot dives to underwater mountains. And GPS collars on Yellowstone grizzly bears are giving new insights into one of the most studied large carnivore populations in the world.

Technological advances in recent years have allowed what could be the most inquisitive Earth dweller of them all, humans, to invent ever more ingenious tracking devices to find out what their fellow inhabitants are up to.

"It's a large field that's developing very fast," said Alex Zerbini, a research biologist with the National Oceanic and Atmospheric Administration's National Marine Mammal Laboratory in Seattle. "There are many types of tags being developed for many species of marine animals."

Scientists say the trove of information thanks to ever smaller, tougher and more powerful tracking devices is leading to discoveries that could be used to make better wildlife and habitat management decisions.

The devices are also revealing the secret lives of hard-to-study animals.

For example, Zerbini said, scientists recently discovered humpback whales diving to underwater mountains on a regular basis, and also making the dives during migrations.

In Yellowstone National Park and the surrounding area, more sophisticated tracking devices on grizzly bears are providing information, notably on their ability to find food, that could be a factor in whether Endangered Species Act protections are lifted.

Scientists say whitebark pine, a key grizzly bear food source, has been diminishing due to insect infestation, possibly due to global warm-



Joseph Brandt/U.S. Fish and Wildlife Service

Condor No. 255 wears a GPS transmitter while perched near her nest in the Hopper Mountain National Wildlife Refuge near Fillmore, Calif. Solar-powered trackers on wings recording California condors soaring to 15,000 feet, locators attached to humpback whales that reveal 1,000-foot dives to underwater mountains, and GPS collars on Yellowstone ecosystem grizzly bears give new insights into one of the most-studied large carnivore populations in the world.



NOAA Fisheries/Instituto Aqualite/Brazil

A tiny GPS transmitter on the back of a humpback whale during a tagging expedition off the coast of Brazil.

ing. A recent study aimed at finding out if grizzlies are finding a replacement food source used more advanced GPS collars that could tell if a grizzly spending a long time in a specific area was guarding a dead carcass or napping.

"We were actually able to determine differences in the patterns between those types of activities," said Frank van Manen, leader of the Inter-

agency Grizzly Bear Study Team.

The results, he said, suggest grizzlies are relying more on carcasses and less on whitebark pine in the fall when the tree produces edible, high calorie seeds just as the bears are trying to pack on weight before hibernation.

New information is also revealing the nuances of how wildlife interact with the environment. California

condors soar high and land to feed on dead animals. But why do they climb to nearly 3 miles above the Earth?

Tracking data shows that once the condors attain a high altitude, they take a long downhill glide, sloping in a specific direction toward a dead animal they've already fed on or to an area they have found dead animals in the past. One condor made a 70-mile flight, traveling 210 miles in a single day.

Joseph Brandt, a wildlife biologist with the U.S. Fish and Wildlife Service at the Hopper Mountain National Wildlife Refuge in California, said wing flapping is inefficient for the birds that can weigh 25 pounds and have wingspans of 10 feet. Instead, they use rising currents of heated air called thermals to gain altitude.

Tracking the birds suggests that flying conditions might be the primary factor dictating where condors live. "Maybe they're finding food where the flying conditions are best," Brandt said.

He said the new tracking information, along with meteorological data, is being used to create maps of areas with weather conditions suitable for condors as part of Fish and Wildlife's plan to continue recovery efforts of the federally protected bird.

"We really see how the birds are using the topography," Brandt said. "We compare wind conditions to see how the bird is reacting in that kind of 3-D world."

Similar analysis involves how the behavior of Steller sea lions off Alaska is linked to ocean cycles. Many species of birds around the world are also being tracked, including long-billed curlews, and sage grouse in Idaho.

The findings have led to more questions. For example, after learning that humpbacks dive to underwater mountains, scientists wanted to know why, Zerbini said. Are they feeding? Are they socializing?

"It's always like that in science," he said. "The more you know, the more questions you have. Which is good. Then you can develop the technology specifically to address your new questions."

THE DAILY
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TV LISTINGS

Evening listings
WEDNESDAY

WEDNESDAY EVENING													MARCH 2	
A	L	6 PM	6:30	7 PM	7:30	8 PM	8:30	9 PM	9:30	10 PM	10:30	11 PM	11:30	
2	KATU	(2) KATU News at 6		Jeopardy!	Wheel of Fortune	The Goldbergs (N)	Real O'Neals (P) (N)	Modern Family (N)	Real O'Neals (N)	Crime "Season Two: Episode Nine" (N)	KATU News at 11	(35) Jimmy Kimmel		
3	KRCW	(3) Seinfeld	Seinfeld	Modern Family	Modern Family	Animal Commercial (N)		MADtv's 20th Anniversary Reunion		KGW News at 10	(35) Access H.	Met Your Mother	Met Your Mother	
4	KOMO	(4) KOMO 4 News		Wheel of Fortune	Jeopardy!	The Goldbergs (N)	Real O'Neals (P) (N)	Modern Family (N)	Real O'Neals (N)	Crime "Season Two: Episode Nine" (N)	KOMO 4 News	(35) Jimmy Kimmel		
5	KING	(5) NBC Nightly News	KING 5 News	KING 5 News	Evening	The Mysteries of Laura (N)		Law&O: SVU "Manhattan Transfer" (N)		Chicago "Forty-Caliber Bread Crumb" (N)	KING 5 News	(35) Tonight Show		
6	KOIN	(6) KOIN 6 News at 6	CBS Evening News	Extra	Ent. Tonight	Survivor: Kaoh Rong (N)		Criminal Minds "Derek" (N)		CSI: Cyber "Python's Revenge" (N)	KOIN 6 News @ 11	(35) S.Colbert		
7	KIRO	(7) KIRO 7 News at 6	CBS Evening News	The Insider	Ent. Tonight	Survivor: Kaoh Rong (N)		Criminal Minds "Derek" (N)		CSI: Cyber "Python's Revenge" (N)	KIRO News	(35) S.Colbert		
8	KGW	(8) KGW News at 6:00 p.m.		Live at Seven	Inside Edition	The Mysteries of Laura (N)		Law&O: SVU "Manhattan Transfer" (N)		Chicago "Forty-Caliber Bread Crumb" (N)	KGW News at 11	(35) Tonight Show		
10	KOPB	(10) Journeys in Japan	Business (N)	PBS NewsHour		A Year in Space (N)		Nova "First Man on the Moon"		Apollo Wives	John Glenn: A Life of Service			
12	KPTV	(12) 6 O'Clock News		Family Feud	Family Feud	Rosewood "Paralytics and Priorities" (N)		Hell's Kitchen "10 Chefs Compete" (N)		10 O'Clock News	11 O'Clock News	Loves Ray		
13	KPDx	(13) Mike & Molly	Mike & Molly	Big Bang Theory	Big Bang Theory	FOX 12's 8 O'Clock News on PDX-TV		FOX 12's 9 O'Clock News on PDX-TV		The Closer "Speed Bump"	The Closer "Cherry Bomb"			
19	KCPQ	(19) Name Game	Modern Family	Big Bang Theory	Big Bang Theory	Rosewood "Paralytics and Priorities" (N)		Hell's Kitchen "10 Chefs Compete" (N)		Q13 News at 10	Q13 News	Modern Family		
20	TBS	(20) Seinfeld	Seinfeld	Seinfeld	Seinfeld	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Friends	Friends	
22	KZJO	(22) Two and Half Men	Two and Half Men	The Simpsons	The Simpsons	Modern Family	Modern Family	Q13 News at 9		Big Bang Theory	Big Bang Theory	Friends	Friends	
29	ESPN	(29) (5:00) NBA Basketball Detroit Pistons at San Antonio Spurs (L)		NBA Basketball Oklahoma City Thunder at Los Angeles Clippers Site: Staples Center (L)						SportsCenter	SportsCenter			
30	ESPN2	(30) NCAA Basketball Oregon at UCLA (L)				SportsCenter		SportsCenter		NBA Tonight	College Basketball	Jalen & Jacoby (N)	NBA Tonight	
31	NICK	(31) The Thundermans	The Thundermans	Paradise Run	Henry Danger	Henry Danger	NickyRickyDicky	Full House	Full House	Full House	Full House	Friends	Friends	
32	DISN	(32) Liv and Maddie	Friends Whenever	Girl Meets World	K.C. Undercover	Bunk'd	Liv and Maddie	K.C. Undercover	K.C. Undercover	Austin & Ally	Bunk'd	K.C. Undercover	Girl Meets World	
34	FAM	(34) ** 13 Going on 30 (2004, Comedy) Mark Ruffalo, Judy Greer, Jennifer Garner.			YoungHungry (N)	Baby Daddy (N)	** Hocus Pocus (1993, Comedy) Sarah Jessica Parker, Kathy Najimy, Bette Midler.			The 700 Club				
35	FMC	(35) (5:00) ** 2012 (2009, Action) Amanda Peet, Thandie Newton, John Cusack.			(10) *** Salt (2010, Action) Liev Schreiber, Chiwetel Ejiofor, Angelina Jolie.		(05) FXM Presents * Getaway (2013, Action) Selena Gomez, Ethan Hawke.			Little W "Mo Monie, Mo Problems" (N)	Little Women ATL "Bad Apples" (N)	NCAA Basketball ACC Tournament	NCAA Basketball ACC Tournament	
36	LIFE	(36) LW Atlanta "Birthday Blowout"		Little Women: Atlanta "Bad Apples"	Women "Couples Party Catastrophe" (N)	Women "Special Pizza Delivery" (N)	Little W "Mo Monie, Mo Problems" (N)			Little W "Mo Monie, Mo Problems" (N)	Little Women ATL "Bad Apples" (N)	NCAA Basketball ACC Tournament	NCAA Basketball ACC Tournament	
38	ROOT	(38) NCAA Basketball Boston College at North Carolina State (L)			Mark Few	In Depth (N)	NCAA Basketball ACC Tournament Women's First Round			Castle "Realty Star Struck"	Castle "Target"			
39	FS1	(39) (5:30) NCAA Basketball Seton Hall vs. Butler (L)		Fox College Hoops	NCAA Basketball Oregon State vs. USC (L)					Fox Sports Live	TMZ Sports (N)	Fox Sports Live With Jay and Dan	Armageddon ('98)	
43	SPIKE	(43) (5:00) *** Bad Boys (1995, Action) Martin Lawrence, Téa Leoni, Will Smith.			** Bad Boys II (2003, Action) Will Smith, Jordy Mollá, Martin Lawrence.									
44	COM	(44) (20) Futurama	(55) South Park	Canada on Strike" (L)	(25) South Park	(55) South Park	(25) South Park	South Park	South Park	Broad City (N)	South Park	The Daily Show	Nightly Show (N)	
45	HIST	(45) A. Pickers "Escape to Motor Mountain"		American Pickers "From Coupe to Nuts"	American Pickers "Frank's Birthday"	American Pickers "Frank's Birthday"	American Pickers (N)	American Pickers (N)		(05) Pawn Stars	(35) Join or Die	(05) Pawn Stars	Pawn Stars	
46	A&E	(46) The First 48 "Graveyard Love"		Duck Dynasty "Duck Dynasty	Duck Dynasty "Duck Dynasty	Duck Dynasty "RV There Yet?"		Jep and Jessica (N)	Duck Dynasty	Duck Dynasty	Duck Dynasty	Duck Dynasty	Duck Dynasty	
47	TLC	(47) Fat Chance "Daniel"		My 600-lb Life "June's Story"	600-lb Life "Chad's Story" (N)	My 600-lb Life "Randy's Story" (N)		Fat Chance "Vanessa" (N)		My 600-lb Life "Randy's Story"				
48	DISC	(48) Dual Survival "Scorched Earth"		Dual Survival "On Thin Ice"	Dual Survival "High and Dry" (N)	Dual Survival (N)		Venom Hunters "A Score to Settle" (N)		Dual Survival				
49	NGEO	(49) Big Fish, Texas "Hit Rock Bottom"		Big Fix Alaska "Muddying the Waters"	Big Fish, Texas "Hit Rock Bottom"	Big Fish "Clash of the Guindons" (N)		Big Fix Alaska "Frankendozer" (N)		Big Fish, Texas "Clash of the Guindons"				
50	TNT	(50) Castle "Significant Others"		Castle "Under the Influence"	Castle "Death Gone Crazy"	Castle "Realty Star Struck"		Castle "Realty Star Struck"		Castle "Target"				
51	AMC	(51) (5:30) *** The Bourne Supremacy ('04) Franka Potente, Brian Cox, Matt Damon.			*** Rocky III (1982, Drama) Talia Shire, Carl Weathers, Sylvester Stallone.			*** Rocky IV (1985, Drama) Talia Shire, Sylvester Stallone.		Suits "25th Hour" (SF) (N)	(05) Modern Family	(35) Modern Family	Modern Family	
52	USA	(52) (5:00) Fast & Furious (2009) Vin Diesel.		(10) *** Fast Five (2011, Action) Paul Walker, Dwayne Johnson, Vin Diesel.				Diners, Drive-Ins "Wildest Joins"		Diners, Drive-Ins "Guy & Hunter Vac	Diners, Drive-Ins "Guy & Hunter Vac	Diners, Drive-Ins	Diners, Drive-Ins	
53	FOOD	(53) Diners, Drive-Ins "Diners, Drive-Ins		Diners, Drive-Ins "Diners, Drive-Ins	Diners, Drive-Ins "Diners, Drive-Ins	Diners, Drive-Ins "Diners, Drive-Ins		Property Brothers		Property Brothers				
54	HGTV	(54) Buying and Selling "Escape to the City"		Buying and Selling	Property Brothers	Property Brothers (N)		House Hunters (N)	House Hunters Int'l	Property Brothers				
56	FX	(56) (5:00) *** The Avengers ('12) Chris Evans, Scarlett Johansson, Robert Downey Jr.			*** Pirates of the Caribbean: The Curse of the Black Pearl (2003, Adventure) Geoffrey Rush, Orlando Bloom, Johnny Depp.			Anderson Cooper 360		Anderson Cooper 360				
57	CNN	(57) Anderson Cooper 360		CNN Tonight With Don Lemon	CNN Tonight With Don Lemon	Anderson Cooper 360		Anderson Cooper 360		Anderson Cooper 360				
58	FNC	(58) The Kelly File with Megyn Kelly		Hannity	The O'Reilly Factor	The Kelly File with Megyn Kelly		Hannity		On the Record				
61	CNBC	(61) Shark Tank		Resto. Start "Too Hot To Handle" (N)	Shark Tank	Shark Tank		Restaurant Startup "Too Hot To Handle"		Paid Program	Paid Program			
63	BRV	(63) Vanderpump R. "Too Little, Too Late"		Housewives P. "Error on the High Seas"	The Real Housewives of Beverly Hills	Atlanta "Read School is in Session"		Newlyweds: The First Year (N)		WatchWhat (N)	Newlyweds			
64	TCM	(64) (5:00) *** Spartacus (1960, Epic) Laurence Olivier, Charles Laughton, Kirk Douglas.			*** Lust for Life (1956, Biography) Anthony Quinn, James Donald, Kirk Douglas. (45) A Funny Thing			Happened on the Way to the Forum		Face Off "Smoke and Mirrors" (N)	The Magicians	Face Off "Smoke and Mirrors"	Product Showcase	
65	SYFY	(65) (4:30) The Conjuring ('13) Patrick Wilson.		** The Possession ('12, Hor) Jeffrey Dean Morgan, Kyra Sedgwick, Natasha Calis.		Face Off "Smoke and Mirrors" (N)		The Magicians		Face Off "Smoke and Mirrors"				
182	RFD	(182) WesternSportWeek/Noble Outfitters		Dennis Reils Univ	Equestrian Nation	RW Horsemanship	Rural Eve. News	Women's Rodeo	The Final Spin	WesternSportWeek	Noble Outfitters			

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