

CARICOOBS OBSERVING ASSETS																		
Station ID	WMO ID or NWS/CMAN ID	Station Long Name	Station Description (Optional)	Latitude (Dec deg)	Longitude (Dec deg)	Platform Type	Time Period	Current Status <small>1 = In Use (This includes moored buoys, buoys that are deployed, N = No Data Available/Inactive, or a buoy with no stream report. 0 = Off-line (buoy is not working or has no power or is damaged). 9 = Buoy is currently being repaired/maintained or is scheduled for maintenance. 10 = A buoy that is no longer actively being used.)</small>	RA/Federal Affiliation	Platform Funder/Sponsor	RA Funding Involvement <small>(Y = Fully funded, N = Partially funded, 0 = No funding)</small>	Platform Operator/Owner	Operator Sector	Platform Maintainer	Data Manager	Variable Names <small>(If name and column depth of measurements in depth)</small>	Additional Notes	CARICOOBS Contact <small>(Name and Email)</small>
OCEANOGRAPHIC AND WAVE DATA BUOYS																		
PI1	4305	Ponce Buoy		17.8637	-65.53	Moored buoy	05/09 - present	Operational	CARCOOS	CARCOOS	Y	Net Pettigrew/CARCOOS	Academia	University of Maine	Department of Physical Oceanography, School of Marine Sciences, University of Maine / CARCOOS	sea_water_speed (2.5 - 16 m), sea_water_to_direction (2.5 - 16 m), eastward_sea_water_velocity (2.5 - 16 m), northward_sea_water_velocity (2.5 - 16 m), sea_water_temperature, air_temperature (3 m), barometric_pressure (3 - 6 m), wind_speed (4 m), wind_speed_of_gust (4 m), wind_from_direction (4 m), sea_surface_wave_significant_height, sea_surface_wave_maximum_height, sea_surface_wave_from_direction, sea_surface_wave_period, sea_surface_wave_directional_spread, sea_surface_wave_electrical_conductivity (1 m), sea_surface_temperature (1 m), sea_surface_salinity (1 m), sea_surface_density (1 m)		Julio Morel (julio.morel@up.edu)
PI2	4303	San Juan Buoy		17.4743	-66.0964	Moored buoy	07/10 - present	Operational	CARCOOS	CARCOOS	Y	Net Pettigrew/CARCOOS	Academia	University of Maine	Department of Physical Oceanography, School of Marine Sciences, University of Maine / CARCOOS	sea_water_speed (2.5 - 20 m), sea_water_to_direction (2.5 - 20 m), eastward_sea_water_velocity (2.5 - 20 m), northward_sea_water_velocity (2.5 - 20 m), sea_water_temperature, air_temperature (3 m), barometric_pressure (3 - 6 m), wind_speed (4 m), wind_speed_of_gust (4 m), wind_from_direction (4 m), sea_surface_wave_significant_height, sea_surface_wave_maximum_height, sea_surface_wave_from_direction, sea_surface_wave_period, sea_surface_wave_directional_spread, sea_surface_wave_electrical_conductivity (1 m), sea_surface_temperature (1 m), sea_surface_salinity (1 m), sea_surface_density (1 m)		Julio Morel (julio.morel@up.edu)
PI3	4356	Veques Buoy		18.2629	-65.464	Moored buoy	08/21 - present	Operational	CARCOOS	CARCOOS	Y	Net Pettigrew/CARCOOS	Academia	University of Maine	Department of Physical Oceanography, School of Marine Sciences, University of Maine / CARCOOS	sea_water_speed (2.5 - 28 m), sea_water_to_direction (2.5 - 28 m), eastward_sea_water_velocity (2.5 - 28 m), northward_sea_water_velocity (2.5 - 28 m), sea_water_temperature, air_temperature (3 m), barometric_pressure (3 - 6 m), wind_speed (4 m), wind_speed_of_gust (4 m), wind_from_direction (4 m), sea_surface_wave_significant_height, sea_surface_wave_maximum_height, sea_surface_wave_from_direction, sea_surface_wave_period, sea_surface_wave_directional_spread, sea_surface_wave_electrical_conductivity (1 m), sea_surface_temperature (1 m), sea_surface_salinity (1 m), sea_surface_density (1 m), sea_water_electrical_conductivity (1 m)		Julio Morel (julio.morel@up.edu)
VI1	4302	St John Buoy		18.2491	-64.7637	Moored buoy	04/01 - present	Operational	CARCOOS	CARCOOS	Y	Net Pettigrew/CARCOOS	Academia	University of Maine	Department of Physical Oceanography, School of Marine Sciences, University of Maine / CARCOOS	sea_water_speed (2.5 - 40 m), sea_water_to_direction (2.5 - 40 m), eastward_sea_water_velocity (2.5 - 40 m), northward_sea_water_velocity (2.5 - 40 m), sea_water_temperature, air_temperature (3 m), barometric_pressure (3 - 6 m), wind_speed (4 m), wind_speed_of_gust (4 m), wind_from_direction (4 m), sea_surface_wave_significant_height, sea_surface_wave_maximum_height, sea_surface_wave_from_direction, sea_surface_wave_period, sea_surface_wave_directional_spread, sea_surface_wave_electrical_conductivity (1 m), sea_surface_temperature (1 m), sea_surface_salinity (1 m), sea_water_electrical_conductivity (1 m)		Julio Morel (julio.morel@up.edu)
VI2	4351	North of St Thomas		18.4761	-65.1988	Moored buoy	08/2017-08/2017	Offline	CARCOOS	CARCOOS	Y	Net Pettigrew/CARCOOS	Academia	University of Maine	Department of Physical Oceanography, School of Marine Sciences, University of Maine / CARCOOS	sea_water_speed (2.5 - 22 m), sea_water_to_direction (2.5 - 22 m), eastward_sea_water_velocity (2.5 - 22 m), northward_sea_water_velocity (2.5 - 22 m), sea_water_temperature, air_temperature (3 m), barometric_pressure (3 - 6 m), wind_speed (4 m), wind_speed_of_gust (4 m), wind_from_direction (4 m), sea_surface_wave_significant_height, sea_surface_wave_maximum_height, sea_surface_wave_from_direction, sea_surface_wave_period, sea_surface_wave_directional_spread, sea_surface_wave_electrical_conductivity (1 m), sea_surface_temperature (1 m), sea_surface_salinity (1 m), sea_water_electrical_conductivity (1 m), dissolved_oxygen (1 m), mass_concentration_of_dissolved_oxygen (1 m), sea_water_turbidity (1 m)	Destroyed by Hurricane Irma. A new oceanographic data buoy will be deployed in 2022.	Julio Morel (julio.morel@up.edu)
VI4	4301	North of St Thomas		18.2514	-65.04	Moored buoy	03/2011-04/2015	N	CARCOOS	CARCOOS	N	Net Pettigrew/University of Virgin Islands	Academia	University of Virgin Islands	Department of Physical Oceanography, School of Marine Sciences, University of Maine / CARCOOS	sea_water_speed (2.5 - 22 m), sea_water_to_direction (2.5 - 22 m), eastward_sea_water_velocity (2.5 - 22 m), northward_sea_water_velocity (2.5 - 22 m), sea_water_temperature, air_temperature (3 m), barometric_pressure (3 - 6 m), wind_speed (4 m), wind_speed_of_gust (4 m), wind_from_direction (4 m), sea_surface_wave_significant_height, sea_surface_wave_maximum_height, sea_surface_wave_from_direction, sea_surface_wave_period, sea_surface_wave_directional_spread, sea_surface_wave_electrical_conductivity (1 m), sea_surface_temperature (1 m), sea_surface_salinity (1 m), sea_water_electrical_conductivity (1 m), dissolved_oxygen (1 m), mass_concentration_of_dissolved_oxygen (1 m), sea_water_turbidity (1 m)	Relayed to another location. Now is identified as VI2.	Julio Morel (julio.morel@up.edu)
18y1	4115	Rincon Weather Buoy		18.3764	-67.2799	Moored buoy	05/2011 - present	Operational	CARCOOS	CARCOOS/ODP	N	Coastal Data Information Program, SIO/UCD	Academia	CARCOOS	Coastal Data Information Program	sea_water_speed (2.5 - 22 m), sea_water_to_direction (2.5 - 22 m), eastward_sea_water_velocity (2.5 - 22 m), northward_sea_water_velocity (2.5 - 22 m), sea_water_temperature, air_temperature (3 m), barometric_pressure (3 - 6 m), wind_speed (4 m), wind_speed_of_gust (4 m), wind_from_direction (4 m), sea_surface_wave_significant_height, sea_surface_wave_maximum_height, sea_surface_wave_from_direction, sea_surface_wave_period, sea_surface_wave_directional_spread, sea_surface_wave_electrical_conductivity (1 m), sea_surface_temperature (1 m), sea_surface_salinity (1 m), sea_water_electrical_conductivity (1 m), dissolved_oxygen (1 m), mass_concentration_of_dissolved_oxygen (1 m), sea_water_turbidity (1 m)		Miguel Canals (miguel.canals@up.edu)
24y1	4121	Arecibo Weather Buoy		18.4609	-67.7005	Moored buoy	05/2011 - present	Operational	NREL/CARCOOS	CARCOOS/ODP/NREL	Y	Coastal Data Information Program, SIO/UCD	Government-Federal/Academia	CARCOOS	Coastal Data Information Program	sea_water_speed (2.5 - 22 m), sea_water_to_direction (2.5 - 22 m), eastward_sea_water_velocity (2.5 - 22 m), northward_sea_water_velocity (2.5 - 22 m), sea_water_temperature, air_temperature (3 m), barometric_pressure (3 - 6 m), wind_speed (4 m), wind_speed_of_gust (4 m), wind_from_direction (4 m), sea_surface_wave_significant_height, sea_surface_wave_maximum_height, sea_surface_wave_from_direction, sea_surface_wave_period, sea_surface_wave_directional_spread, sea_surface_wave_electrical_conductivity (1 m), sea_surface_temperature (1 m), sea_surface_salinity (1 m), sea_water_electrical_conductivity (1 m), dissolved_oxygen (1 m), mass_concentration_of_dissolved_oxygen (1 m), sea_water_turbidity (1 m)		Miguel Canals (miguel.canals@up.edu)
		Rincon Spare Buoy				Moored buoy	Available since 2014	Offline	CARCOOS	CARCOOS/ODP	Y	Coastal Data Information Program, SIO/UCD	Academia	CARCOOS	Coastal Data Information Program	sea_water_speed (2.5 - 22 m), sea_water_to_direction (2.5 - 22 m), eastward_sea_water_velocity (2.5 - 22 m), northward_sea_water_velocity (2.5 - 22 m), sea_water_temperature, air_temperature (3 m), barometric_pressure (3 - 6 m), wind_speed (4 m), wind_speed_of_gust (4 m), wind_from_direction (4 m), sea_surface_wave_significant_height, sea_surface_wave_maximum_height, sea_surface_wave_from_direction, sea_surface_wave_period, sea_surface_wave_directional_spread, sea_surface_wave_electrical_conductivity (1 m), sea_surface_temperature (1 m), sea_surface_salinity (1 m), sea_water_electrical_conductivity (1 m), dissolved_oxygen (1 m), mass_concentration_of_dissolved_oxygen (1 m), sea_water_turbidity (1 m)		Miguel Canals (miguel.canals@up.edu)
HF RADARS																		
FURA	Afaco			18.2918	-67.1983	Fixed	2009 - present	Operational	CARCOOS, University of Puerto Rico at Mayaguez	CARCOOS	Y	CARCOOS	Academia/Non-Profit	CARCOOS	Coastal Observing Research and Development Center	current speed and direction		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
GD00	North Cabo Rico			18.1500	-67.1905	Fixed	2009 - present	Operational	CARCOOS, University of Puerto Rico at Mayaguez	CARCOOS	Y	CARCOOS	Academia/Non-Profit	CARCOOS	Coastal Observing Research and Development Center	current speed and direction		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
FARD	South Cabo Rico			17.9333	-67.1930	Fixed	2009 - present	Operational	CARCOOS, University of Puerto Rico at Mayaguez	CARCOOS	Y	CARCOOS	Academia/Non-Profit	CARCOOS	Coastal Observing Research and Development Center	current speed and direction		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
PFYC	Ponce			17.9628	-67.6183	Fixed	2009 - present	Operational	CARCOOS, University of Puerto Rico at Mayaguez	CARCOOS	Y	CARCOOS	Academia/Non-Profit	CARCOOS	Coastal Observing Research and Development Center	current speed and direction		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
MAR0	Maunabo			17.9862	-65.8850	Fixed	2009 - present	Operational	CARCOOS, University of Puerto Rico at Mayaguez	CARCOOS	Y	CARCOOS	Academia/Non-Profit	CARCOOS	Coastal Observing Research and Development Center	current speed and direction		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
WINDNET Wind Stations																		
PLATAS	PI804	Rincon, PR	RM Young	18.3627	-67.2514	Fixed	11/2012 - present	Operational	CARCOOS	CARCOOS	Y	CARCOOS	Academia/Non-Profit	CARCOOS	NWS/CARCOOS	wind_speed (15 m), wind_speed_of_gust (15 m), wind_from_direction (15 m), air_temperature (15 m), air_pressure (15 m), relative_humidity (15 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
MAGUEYES	8024	Isla Maguayes, PR	RM Young	17.9634	-67.0442	Fixed	10/2015 - 9/2017	No	CARCOOS	CARCOOS	N	CARCOOS	Academia/Non-Profit	CARCOOS	NWS/CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)	Destroyed by Hurricane Maria	Patricia Chardon-Maldonado (patricia.chardon@up.edu)
MAGUEYES	F297	Devo Vantage Pro 2 Plus		17.9644	-67.0442	Fixed	10/2018 - present	Operational	CARCOOS	CARCOOS	Y	CARCOOS	Academia/Non-Profit	CARCOOS	Gladden / CARCOOS	wind_speed (8 m), wind_speed_of_gust (8 m), wind_from_direction (8 m), air_temperature (8 m), air_pressure (8 m), relative_humidity (8 m)	Replace MAGN station	Patricia Chardon-Maldonado (patricia.chardon@up.edu)
PYC	E791	Devo Vantage Pro 2 Plus		17.9644	-66.6177	Fixed	12/2018 - present	Operational	CARCOOS	CARCOOS	Y	CARCOOS	Academia/Non-Profit	CARCOOS	Gladden / CARCOOS	wind_speed (15 m), wind_speed_of_gust (15 m), wind_from_direction (15 m), air_temperature (15 m), air_pressure (15 m), relative_humidity (15 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
FCR	E786	Devo Vantage Pro 2 Plus		17.9315	-67.1192	Fixed	12/2018 - present	Operational	CARCOOS	CARCOOS	Y	CARCOOS	Academia/Non-Profit	CARCOOS	Gladden / CARCOOS	wind_speed (3 m), wind_speed_of_gust (3 m), wind_from_direction (3 m), air_temperature (3 m), air_pressure (3 m), relative_humidity (3 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
TPR	E989	Devo Vantage Pro 2 Plus		18.367	-67.2613	Fixed	12/2018 - present	Operational	CARCOOS	CARCOOS	Y	CARCOOS	Academia/Non-Profit	CARCOOS	Gladden / CARCOOS	wind_speed (3 m), wind_speed_of_gust (3 m), wind_from_direction (3 m), air_temperature (3 m), air_pressure (3 m), relative_humidity (3 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
MESONET Weather Stations																		
XAGU	TAGU	Jetty Aguadilla, PR		18.4295	-67.1963	Fixed	2009 - present	Operational	CARCOOS	Weatherflow / CARCOOS	Y	CARCOOS	Industry	CARCOOS	Weatherflow / CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
XAMA	T86A	Charlote Amalia Harbor, USVI		18.3303	-64.9364	Fixed	2009 - 2015	No	CARCOOS	Weatherflow / CARCOOS	N	CARCOOS	Industry	CARCOOS	Weatherflow / CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
XBR0	T8D0	Two Brothers, USVI		18.3491	-64.8170	Fixed	2009 - present	Operational	CARCOOS	Weatherflow / CARCOOS	Y	CARCOOS	Industry	CARCOOS	Weatherflow / CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
XBRK	T8K0	Back Island, USVI		18.2703	-64.8030	Fixed	2009 - present	Operational	CARCOOS	Weatherflow / CARCOOS	Y	CARCOOS	Industry	CARCOOS	Weatherflow / CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
XCDP	TADP	Cabo Rigo, PR (NWS EWT866)		18.0995	-67.1887	Fixed	JAR	Operational	CARCOOS	Weatherflow / CARCOOS	Y	CARCOOS	Industry	CARCOOS	Weatherflow / CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
XCKX	T8KX	Sandy Point NWR, USVI		17.6771	-64.8999	Fixed	2009 - present	Operational	CARCOOS	Weatherflow / CARCOOS	Y	CARCOOS	Industry	CARCOOS	Weatherflow / CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
XCLA	TALX	Culebra Island		18.3170	-65.2242	Fixed	2016 - present	Operational	CARCOOS	Weatherflow / CARCOOS	Y	CARCOOS	Industry	CARCOOS	Weatherflow / CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
XCLR	TARX	San Juan, PR		18.2623	-65.9567	Fixed	2009 - present	Operational	CARCOOS	Weatherflow / CARCOOS	Y	CARCOOS	Industry	CARCOOS	Weatherflow / CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
XJUA	TALX	San Juan, PR		18.4512	-66.1286	Fixed	2009 - present	Operational	CARCOOS	Weatherflow / CARCOOS	Y	CARCOOS	Industry	CARCOOS	Weatherflow / CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
XARS	T8S0	Las Marias, Guayama, PR		17.9289	-66.1570	Fixed	2009 - present	Operational	CARCOOS	Weatherflow / CARCOOS	Y	CARCOOS	Industry	CARCOOS	Weatherflow / CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
XREY	T8EY	Marina Puerto del Rey, Fajardo, PR		18.2838	-65.8330	Fixed	2009 - present	Operational	CARCOOS	Weatherflow / CARCOOS	Y	CARCOOS	Industry	CARCOOS	Weatherflow / CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
XRRP	T8AA	Rapahs Rock, USVI		18.2817	-64.9361	Fixed	2015 - present	Operational	CARCOOS	Weatherflow / CARCOOS	Y	CARCOOS	Industry	CARCOOS	Weatherflow / CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
XSAV	T8AC	Savannah Island, USVI		18.3373	-65.8330	Fixed	2009 - 2017	No	CARCOOS	Weatherflow / CARCOOS	N	CARCOOS	Industry	CARCOOS	Weatherflow / CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)	Decommissioned by Weatherflow because it got damaged by Hurricane Maria	Patricia Chardon-Maldonado (patricia.chardon@up.edu)
XGSD	T8GD	Crown Mountain, USVI		18.3537	-64.9693	Fixed	2009 - present	Offline	CARCOOS	Weatherflow / CARCOOS	Y	CARCOOS	Industry	CARCOOS	Weatherflow / CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)	Destroyed by Hurricane Maria. A new station will be installed and online in 2022.	Patricia Chardon-Maldonado (patricia.chardon@up.edu)
XVAB	T8AB	Yabucoa El Negro, PR		18.0246	-65.8289	Fixed	2009 - present	Operational	CARCOOS	Weatherflow / CARCOOS	Y	CARCOOS	Industry	CARCOOS	Weatherflow / CARCOOS	wind_speed (10 m), wind_speed_of_gust (10 m), wind_from_direction (10 m), air_temperature (10 m), air_pressure (10 m), relative_humidity (10 m)		Patricia Chardon-Maldonado (patricia.chardon@up.edu)
OCEAN ACIDIFICATION MOORED BUOYS																		
MAR02	NOI Accession 017354	La Parguera Moored Buoy	NOI Accession 017354	17.936667	-66.0512	Moored buoy	2009 - present	Operational	CARCOOS, OAP	PNEL/CARCOOS	Y	PNEL	Academia	CARCOOS	PNEL	SI 106, 401, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808		

