

group	predictor	scale	number	source data	pca (yes/no)	tool	description
bs	bsmax	50cm	1	bs mosaic	n	FMGT, ArcMap	aggregated to 5m from 50cm mosaic
bs	bsmean	50cm	1	bs mosaic	n	FMGT, ArcMap	aggregated to 5m from 50cm mosaic
bs	bsmedian	5m	1	bs mosaic	n	FMGT, ArcMap	aggregated to 5m from 50cm mosaic
bs	bsmin	50cm	1	bs mosaic	n	FMGT, ArcMap	aggregated to 5m from 50cm mosaic
bs_char	BS_ARA_Characterization_fixed	40m	1	bs raw	n	FMGT	geocoder
bs_geoc	BS_Stat_10thPercentile_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc	BS_Stat_25thPercentile_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc	BS_Stat_75thPercentile_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc	BS_Stat_90thPercentile_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc	BS_Stat_Kurtosis_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc	BS_Stat_M3_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc	BS_Stat_M4_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc	BS_Stat_Maximum_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc	BS_Stat_Mean_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc	BS_Stat_Median_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc	BS_Stat_Minimum_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc	BS_Stat_Mode_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc	BS_Stat_QuartileRange_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc	BS_Stat_StandardDeviation_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc_ara	BS_ARA_Distance_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc_ara	BS_ARA_FluidFactor_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc_ara	BS_ARA_Gradient_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc_ara	BS_ARA_Impedance_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc_ara	BS_ARA_Intercept_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc_ara	BS_ARA_MeanFar_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc_ara	BS_ARA_MeanNear_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc_ara	BS_ARA_MeanOuter_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc_ara	BS_ARA_MeanOuter_fixed2	40m	1	bs raw	y	FMGT	geocoder
bs_geoc_ara	BS_ARA_MeanTotal_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc_ara	BS_ARA_NearCh0_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc_ara	BS_ARA_Phi_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc_ara	BS_ARA_Roughness_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_geoc_ara	BS_ARA_Volume_fixed	40m	1	bs raw	y	FMGT	geocoder
bs_scale	bs	20m, 50m, 100m, 200m, 500m, 1km, 2km	7	bs mosaic	y	FMGT, Matlab	gaussian lowpass filtered backscatter mosaic
bs_stat	bsrange	50cm	1	bs mosaic	y	FMGT, ArcMap	aggregated to 5m from 50cm mosaic
bs_stat	bsstdev3x3	50cm, 1m, 5m	3	bs mosaic	y	FMGT, ArcMap	aggregated to 5m from 50cm mosaic
bs_stat	bsstdev5x5	50cm	1	bs mosaic	y	FMGT, ArcMap	aggregated to 5m from 50cm mosaic
depth	depth	5m	1	depth	n	Caris	
depth_scale	depth	20m, 50m, 100m, 200m, 500m, 1km, 2km	7	depth	y	Caris, Matlab	gaussian lowpass filtered 5m depth grid
eucl_dist	fsand_eucl_dist	2.5m	1	bs	n	ArcMap	distance from backscatter interval classified as sand
eucl_dist	reef_eucl_dist	2.5m	1	depth	n	ArcMap	distance from bpi >=2 inner radius 2.5 m, outer radius 25m
obia_shape	Area	2.5m	1	depth, bs	n	ENVI FX	segmented 6 band pca compressed image using seg 12 and merge 25
obia_shape	Compactness	2.5m	1	depth, bs	n	ENVI FX	"
obia_shape	Convexity	2.5m	1	depth, bs	n	ENVI FX	"
obia_shape	Elongation	2.5m	1	depth, bs	n	ENVI FX	"
obia_shape	Form_Factor	2.5m	1	depth, bs	n	ENVI FX	"
obia_shape	Length	2.5m	1	depth, bs	n	ENVI FX	"
obia_shape	Main_Direction	2.5m	1	depth, bs	n	ENVI FX	"
obia_shape	Major_Length	2.5m	1	depth, bs	n	ENVI FX	"
obia_shape	Minor_Length	2.5m	1	depth, bs	n	ENVI FX	"
obia_shape	Number_of_Holes	2.5m	1	depth, bs	n	ENVI FX	"

obia_shape	Rectangular_Fit	2.5m	1 depth, bs	n	ENVI FX	"
obia_shape	Roundness	2.5m	1 depth, bs	n	ENVI FX	"
obia_shape	Solid_Area	2.5m	1 depth, bs	n	ENVI FX	"
obia_shape	Solidity	2.5m	1 depth, bs	n	ENVI FX	"
obia_spectral	Spectral_Max Band 1-6	2.5m	6 depth, bs	y	ENVI FX	"
obia_spectral	Spectral_Mean Band 1-6	2.5m	6 depth, bs	y	ENVI FX	"
obia_spectral	Spectral_Min Band 1-6	2.5m	6 depth, bs	y	ENVI FX	"
obia_spectral	Spectral_Std Band 1-6	2.5m	6 depth, bs	y	ENVI FX	"
obia_texture	Texture_Entropy Band 1-6	2.5m	6 depth, bs	y	ENVI FX	"
obia_texture	Texture_Mean Band 1-6	2.5m	6 depth, bs	y	ENVI FX	"
obia_texture	Texture_Range Band 1-6	2.5m	6 depth, bs	y	ENVI FX	"
obia_texture	Texture_Variance Band 1-6	2.5m	6 depth, bs	y	ENVI FX	"
ocean	bottom_cur_dir	50m	1 insitu uvobs	n	R, ArcMap	interpolated dropcamera sensor data using kriging
ocean	bottom_cur_speed1	50m	1 insitu uvobs	n	R, ArcMap	interpolated dropcamera sensor data using kriging
ocean	bottom_oxy_conc	50m	1 insitu uvobs	n	R, ArcMap	interpolated dropcamera sensor data using kriging
ocean	bottom_salinity	50m	1 insitu uvobs	n	R, ArcMap	interpolated dropcamera sensor data using kriging
sedthick	sandthick	50m	1 interp sed profile	n	mdps, ArcMap	interpreted kriging interpolated sediment profiles
terrain_50cm1m	curv	50cm, 1m	2 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_50cm1m	curvplan	50cm, 1m	2 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_50cm1m	curvprof	50cm, 1m	2 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_50cm1m	curvrangle	50cm, 1m	2 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_50cm1m	slope	50cm, 1m	2 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_50cm1m	slopeslope	50cm, 1m	2 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_50cm1m	stdev	50cm, 1m	2 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_50cm1m	stdevrange	50cm	1 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_50cm1m	surfplan	1m	1 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_50cm1m	terrainrug	50cm, 1m	2 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_5m	curv	5m	1 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_5m	curvplan	5m	1 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_5m	curvprof	5m	1 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_5m	slope	5m	1 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_5m	slopeslope	5m	1 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_5m	stdev	5m	1 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_5m	surfplan	5m	1 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_5m	terrainrug	5m	1 depth	y	ArcMap	terrain metrics for 50cm and 1m resolution depth grid
terrain_scale_aspect	aspect_cos	20m, 200m, 1km, 2km	4 depth	y	Matlab, ArcMap	gaussian lowpass filtered 5m depth grid
terrain_scale_aspect	aspect_sin	20m, 200m, 1km, 2km	4 depth	y	Matlab, ArcMap	gaussian lowpass filtered 5m depth grid
terrain_scale_bpi	bpi	20m, 50m, 100m, 200m, 500m, 1km, 2km	7 depth	y	Matlab, ArcMap	gaussian lowpass filtered 5m depth grid
terrain_scale_bpi	bpi_2m25m	2.5m	1 depth	y	ArcMap	2.5m inner radius, 25m outer radius
terrain_scale_slope	slope	20m, 50m, 100m, 200m, 500m, 1km, 2km	7 depth	y	Matlab, ArcMap	gaussian lowpass filtered 5m depth grid
terrain_scale_slope	slpslp	20m, 50m, 100m, 200m, 500m, 1km, 2km	7 depth	y	Matlab, ArcMap	gaussian lowpass filtered 5m depth grid
uncertainty	bs_nadir_euclidist	5m	1 bs raw	n	ArcMap	
uncertainty	BS_Stat_NumOfSamples_fixed	5m	1 bs raw	n	FMGT	
uncertainty	depth_stdeverror	5m	1 depth raw	n	Caris	
uncertainty	depth_uncertainty	5m	1 depth raw	n	Caris	
xy	x_local	5m	1 gis	n	ArcMap	
xy	y_local	5m	1 gis	n	ArcMap	