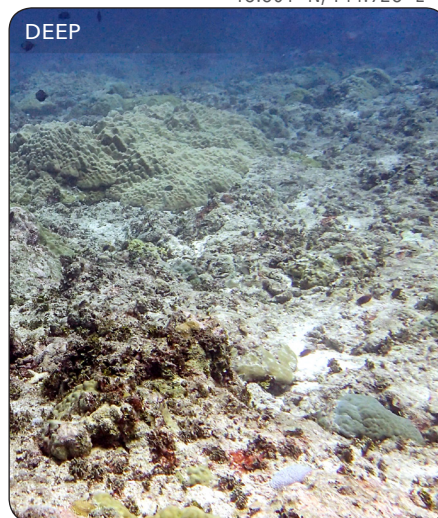


TAGUA POINT

1 – Shallow, 4 – Deep



The Point is a significant archeological site; some of the earliest settlements of people in the Marianas Islands were here.



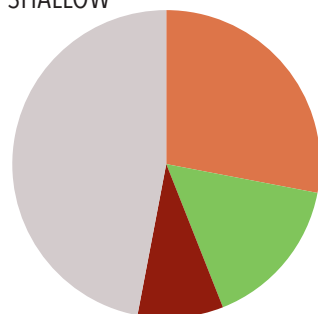
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	1/18	1.00	0.65	0.40	0.92	0.67	0.91	1.00	0.85
Deep	4/20	0.93	0.30	0.42	0.95	0.76	0.78	1.00	0.85

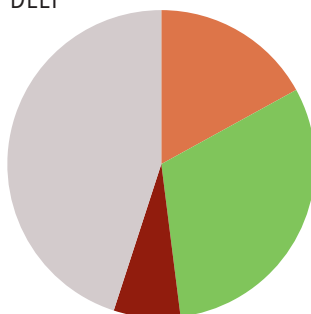
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

<i>Acanthurus blochii</i>	<i>Chlorurus sordidus</i>
<i>Acanthurus lineatus</i>	<i>Ctenochaetus striatus</i>
<i>Acanthurus nigricans</i>	<i>Hipposcarus longiceps</i>
<i>Acanthurus nigricauda</i>	<i>Lutjanus gibbus</i>
<i>Acanthurus nigrofuscus</i>	<i>Naso lituratus</i>
<i>Acanthurus triostegus</i>	<i>Naso tonganus</i>
<i>Acanthurus xanopterus</i>	<i>Naso unicornis</i>
<i>Aphareus furca</i>	<i>Scarus forsteni</i>
<i>Calotomus carolinus</i>	<i>Scarus psittacus</i>
<i>Caranx melampygus</i>	<i>Scarus rubroviolaceus</i>
<i>Cephalopholis argus</i>	<i>Siganus argenteus</i>
<i>Chlorurus frontalis</i>	<i>Zebrasoma veliferum</i>

CORAL SPECIES

SHALLOW

Acanthastrea brevis
Acanthastrea echinata
Acropora azurea
Acropora cerealis
Acropora digitifera
Acropora tenuis
Astreopora myriophthalma
Cyphastrea microphthalma
Cyphastrea serailia
Dipsastraea danai
Dipsastraea favus
Dipsastraea matthaii
Goniastrea retiformis

Goniastrea stelligera
Hydnophora microconos
Leptastrea purpurea
Leptoria phrygia
Millepora platyphyllia
Montipora caliculata
Montipora grisea
Montipora hoffmeisteri
Montipora monasteriata
Montipora tuberculosa
Platygyra pini
Pocillopora meandrina
Pocillopora verrucosa
Porites lobata
Porites lutea

DEEP

Astrea curta
Astreopora myriophthalma
Cyphastrea microphthalma
Cyphastrea serailia
Dipsastraea danai
Dipsastraea favus
Dispastraea maritima
Favites valenciennesi
Galaxea fascicularis
Goniastrea edwardsi
Hydnophora microconos
Leptastrea purpurea
Montipora floweri

Montipora foveolata
Montipora grisea
Montipora hoffmeisteri
Montipora tuberculosa
Montipora verrucosa
Pavona varians
Pocillopora verrucosa
Porites australiensis
Porites deformis
Porites lichen
Porites lobata
Porites lutea
Porites rus
Psammocora haimeana
Stylophora pistillata

DEEP

<i>Acanthurus nigricans</i>	<i>Hipposcarus longiceps</i>
<i>Acanthurus nigricauda</i>	<i>Lethrinus olivaceus</i>
<i>Acanthurus nigrofuscus</i>	<i>Lethrinus xanthurus</i>
<i>Acanthurus olivaceus</i>	<i>Lutjanus bohar</i>
<i>Acanthurus pyroferus</i>	<i>Naso lituratus</i>
<i>Acanthurus xanopterus</i>	<i>Naso tonganus</i>
<i>Aphareus furca</i>	<i>Naso unicornis</i>
<i>Caranx melampygus</i>	<i>Scarus forsteni</i>
<i>Chlorurus frontalis</i>	<i>Scarus globiceps</i>
<i>Chlorurus sordidus</i>	<i>Scarus psittacus</i>
<i>Ctenochaetus binotatus</i>	<i>Scarus rubroviolaceus</i>
<i>Ctenochaetus striatus</i>	<i>Scarus schlegeli</i>
<i>Gymnothorax undulatus</i>	<i>Variola louti</i>

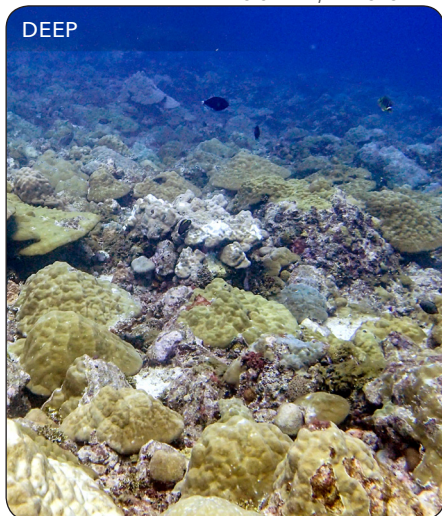
AGUE POINT

2 – Shallow, 2 – Deep



Ague Cove, located near the Point, is a popular hiking and swimming destination as the cove creates a natural swimming pool.

13.572° N, 144.823° E



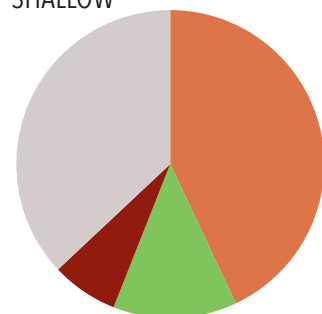
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	2/18	0.99	1.00	0.67	0.96	0.80	0.94	0.07	0.89
Deep	2/20	0.95	0.66	0.62	0.96	0.84	1.00	0.20	0.89

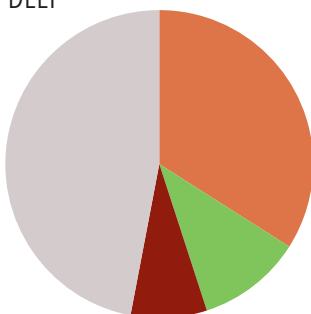
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Acanthurus lineatus
Acanthurus nigricans
Acanthurus nigrofusus
Acanthurus pyroferus
Aphareus furca
Chlorurus sordidus
Ctenochaetus binotatus
Ctenochaetus striatus
Naso lituratus



CORAL SPECIES

SHALLOW

Acanthastrea echinata
Acropora abrotenoides
Acropora digitifera
Acropora globiceps
Acropora surculosa
Acropora verweyi
Astrea curta
Cyphastrea chalcidicum
C. microphthalma
Dipsastraea danai
Dipsastraea favus
Dipsastraea maritima
Dipsastraea matthaii
Dipsastraea pallida
Favites colemani
Favites valenciennesi
Galaxea fascicularis
Goniastrea retiformis
Hydnophora microconos



Leptastrea purpurea
Leptoria phrygia
Millepora dichotoma
Millepora platyphyllia
Montipora c.f. studeri
Montipora caliculata
Montipora grisea
Montipora hoffmeisteri
Montipora monasteriata
Montipora nodosa
Montipora tuberculosa
Pavona c.f. meandrina
Pavona chriquiensis
Pavona varians
Pocillopora meandrina
Pocillopora verrucosa
Porites australiensis
Porites horizontalata
Porites lutea

DEEP

Acanthastrea brevis
Astreopora listeria
Astreopora myriophthalma
Astreopora ocellata
Cyphastrea serailia
Dipsastraea danai
Dipsastraea favus
Dipsastraea maritima
Dipsastraea matthaii
Favites colemani
Favites valenciennesi
Goniastrea edwardsi
Leptastrea purpurea
Montipora caliculata
Montipora tuberculosa



Montipora verrucosa
Paragoniastrea russelli
Pavona duerdeni
Pavona varians
Platygyra pini
Pocillopora damicornis
Pocillopora verrucosa
Porites australiensis
Porites lichen
Porites lobate
Porites lutea
Porites rus
Psammocora haimeana
Stylocoeniella armata

DEEP

Acanthurus nigricans
Acanthurus nigricauda
Acanthurus nigrofusus
Acanthurus pyroferus
Aphareus furca
Chlorurus sordidus
Ctenochaetus binotatus
Ctenochaetus striatus
Gymnosarda unicolor
Naso lituratus
Naso vlamingii
Scarus globiceps
Scarus psittacus
Scarus schlegeli



SHALLOW SCORE: HIGH

DEEP SCORE: HIGH

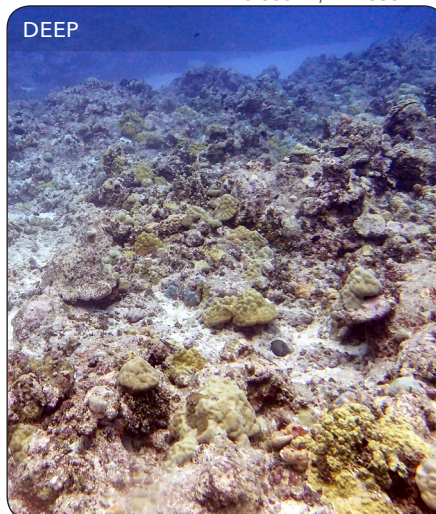
PUGUA PATCH REEF

3 – Shallow, 1 – Deep

13.606° N, 144.835° E



Also known
as Double Reef;
this is a pair of two patch
reefs, which house some of
the highest biodiversity seen
during these surveys.



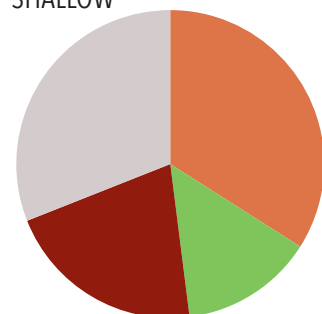
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	3/18	0.96	0.79	0.66	1.00	0.78	0.93	0.08	0.93
Deep	1/20	1.00	0.43	1.00	0.95	0.89	0.94	0.32	0.93

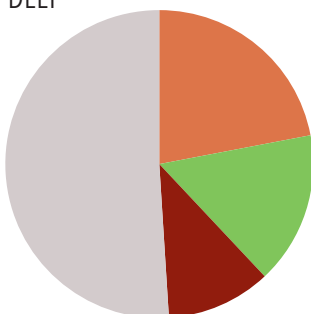
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Acanthurus nigricans
Acanthurus nigrofuscus
Aphareus furca
Chlorurus sordidus
Ctenochaetus striatus
Naso lituratus
Scarus psittacus

CORAL SPECIES

SHALLOW

Acanthastrea brevis
Acanthastrea echinata
Acropora digitifera
Cyphastrea chalcidicum
C. microphthalma
Cyphastrea serailia
Dipsastraea favus
Dipsastraea maritima
Dipsastraea matthaii
Dipsastraea pallida
Dipsastraea speciosa
Favites colemani
Favites valenciennesi
Galaxea fascicularis
Goniastrea edwardsi
Goniastrea retiformis
Goniastrea stelligera
Leptoria phrygia
Leptoseris
mycetoseroides

Montipora hoffmeisteri
Montipora tuberculosa
Montipora venosa
Paragoniastrea russelli
Pavona chriquiensis
Pavona clavus
Pavona duerdeni
Pavona varians
Platygyra pini
Pocillopora verrucosa
Porites australiensis
Porites deformis
Porites lichen
Porites lobata
Porites lutea
Porites rus
Porites vaughani
Psammocora contigua
Psammocora nierstrazi
Stylocoeniella armata

DEEP

Acropora globiceps
Astreopora gracilis
Astreopora myriophthalma
Astreopora randalli
Cyphastrea chalcidicum
Cyphastrea microphthalma
Cyphastrea serailia
Dipsastraea favus
Dipsastraea maritima
Dipsastraea matthaii
Dipsastraea stelligera
Favites colemani
Favites valenciennesi
Goniastrea edwardsi

Goniastrea pectinata
Leptastrea purpurea
Leptastrea transversa
Montipora hoffmeisteri
Montipora venosa
Paragoniastrea russelli
Pavona c.f. meandrina
Pavona varians
Porites australiensis
Porites lichen
Porites lobata
Porites lutea
Porites rus
Psammocora haimeana
Psammocora nierstrazi
Stylocoeniella armata

DEEP

Acanthurus nigricans
Acanthurus nigrofuscus
Aphareus furca
Cephalopholis argus
Chlorurus microrhinos
Chlorurus sordidus
Ctenochaetus striatus
Naso lituratus
Scarus forsteni
Scarus globiceps
Scarus psittacus
Scarus schlegeli
Zebbrasoma flavescens

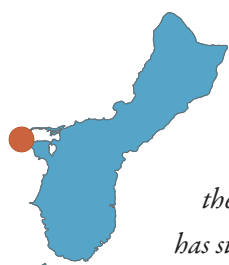
SHALLOW SCORE: HIGH

DEEP SCORE: HIGH

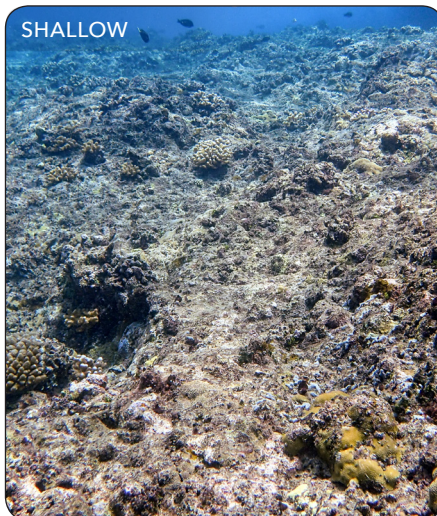
OROTE POINT

4 – Shallow, 7 – Deep

13.446° N, 144.618° E



Surrounding Apra Harbor, the Orote Peninsula has steep drop-offs that plunge from shallow reefs to 50 m depths.



DEEP SCORE: MED-HIGH

RELATIVE RESILIENCE

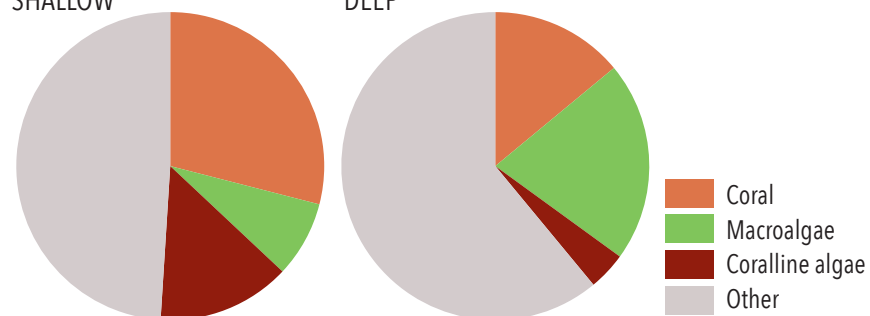
Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	4/18	0.94	0.66	0.75	0.93	0.75	1.00	0.15	0.83
Deep	7/20	0.86	0.27	0.64	0.88	0.85	0.89	0.36	0.83

● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW

DEEP



FISH SPECIES

SHALLOW

<i>Acanthurus lineatus</i>	<i>Naso lituratus</i>
<i>Acanthurus nigricans</i>	<i>Naso vlamingii</i>
<i>Acanthurus nigrofuscus</i>	<i>Scarus psittacus</i>
<i>Acanthurus olivaceus</i>	<i>Scarus schlegeli</i>
<i>Acanthurus triostegus</i>	<i>Zebrasoma flavescens</i>
<i>Aphareus furca</i>	<i>Zebrasoma veliferum</i>
<i>Chlorurus sordidus</i>	
<i>Ctenochaetus striatus</i>	
<i>Monotaxis grandoculis</i>	

CORAL SPECIES

SHALLOW



<i>Acanthastrea brevis</i>	<i>Montipora grisea</i>
<i>Acropora palmerae</i>	<i>Montipora hoffmeisteri</i>
<i>Acropora surculosa</i>	<i>Montipora tuberculosa</i>
<i>Astrea curta</i>	<i>Pavona varians</i>
<i>Cyphastrea microphthalma</i>	<i>Platygyra pini</i>
<i>Dipsastraea matthaii</i>	<i>Pocillopora ankeli</i>
<i>Favites colemani</i>	<i>Pocillopora elegans</i>
<i>Favites valenciennesi</i>	<i>Pocillopora eydouxi</i>
<i>Goniastrea edwardsi</i>	<i>Pocillopora verrucosa</i>
<i>Goniastrea stelligera</i>	<i>Porites lobata</i>
<i>Hydnophora microconos</i>	<i>Porites lutea</i>
<i>Leptastrea purpurea</i>	<i>Psammocora haimeana</i>
<i>Leptoria phrygia</i>	
<i>Montipora efflorescens</i>	

DEEP



<i>Acanthastrea brevis</i>	<i>Leptastrea purpurea</i>
<i>Acropora gemmifera</i>	<i>Montipora grisea</i>
<i>Acropora globiceps</i>	<i>Montipora nodosa</i>
<i>Astreopora listeri</i>	<i>Montipora verrucosa</i>
<i>Astreopora myriophthalma</i>	<i>Pavona meandrina</i>
<i>Astreopora ocellata</i>	<i>Pavona varians</i>
<i>Cyphastrea serailia</i>	<i>Pocillopora verrucosa</i>
<i>Dipsastraea helianthoides</i>	<i>Porites australiensis</i>
<i>Dipsastraea maritima</i>	<i>Porites lutea</i>
<i>Dipsastraea matthaii</i>	<i>Psammocora haimeana</i>
<i>Favites colemani</i>	<i>Scapophyllia cylindrica</i>
<i>Favites valenciennesi</i>	
<i>Galaxea fascicularis</i>	
<i>Goniastrea edwardsi</i>	

DEEP



<i>Acanthurus nigricans</i>	<i>Scarus forsteni</i>
<i>Acanthurus nigricauda</i>	<i>Scarus psittacus</i>
<i>Acanthurus nigrofuscus</i>	<i>Scarus schlegeli</i>
<i>Acanthurus olivaceus</i>	<i>Zebrasoma flavescens</i>
<i>Acanthurus triostegus</i>	
<i>Aphareus furca</i>	
<i>Calotomus carolinus</i>	
<i>Caranx melampygus</i>	
<i>Chlorurus sordidus</i>	
<i>Ctenochaetus striatus</i>	
<i>Monotaxis grandoculis</i>	
<i>Naso brevirostris</i>	
<i>Naso lituratus</i>	
<i>Naso unicornis</i>	
<i>Naso vlamingii</i>	

SHALLOW SCORE: MED-HIGH

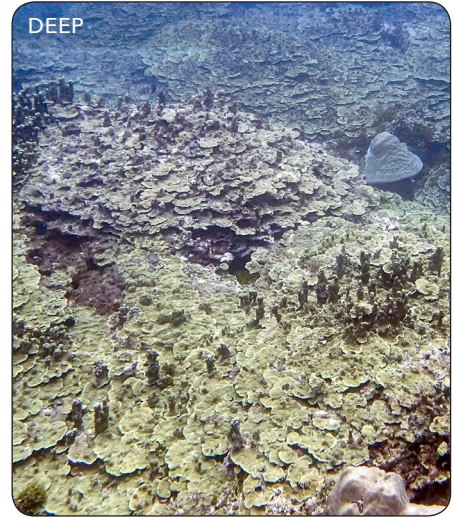
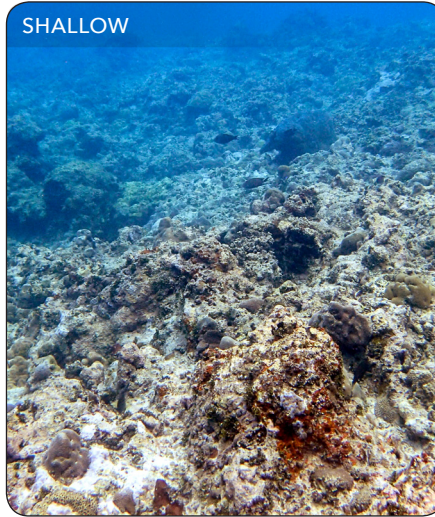
HAGĀTÑA BAY

5 – Shallow, 6 – Deep



The capital of Guam, Hagåtña is derived from the Chamorro word *haga*, which means blood and is thought to represent the bloodlines of the families that established the village.

13.484° N, 144.760° E



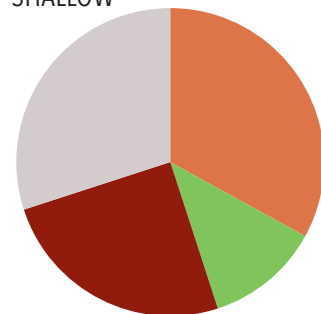
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	5/18	0.93	0.78	0.43	0.92	0.89	0.96	0.18	0.89
Deep	6/20	0.88	1.00	0.47	0.39	1.00	0.94	0.10	0.89

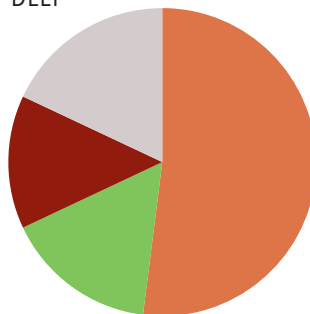
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Acanthurus nigricans
Acanthurus nigrofuscus
Aphareus furca
Carangoides ferdau
Chlorurus sordidus
Ctenochaetus striatus
Naso lituratus
Naso unicornis
Scarus psittacus
Scomberoides lysan

CORAL SPECIES

SHALLOW

Acanthastrea echinata
Astrea curta
Astreopora myriophthalma
Dipsastraea favus
Dipsastraea maritima
Dipsastraea pallida
Favites colemani
Favites valenciennesi
Galaxea fascicularis
Goniastrea retiformis
Goniastrea stelligera
Hydnophora microconos
Leptastrea purpurea
Leptoria phrygia



Millepora platyphyllia
Montipora aequituberculata
Montipora caliculata
Montipora danae
Montipora efflorescens
Montipora tuberculosa
Montipora venosa
Pavona clavus
Pavona varians
Pocillopora damicornis
Porites deformis
Porites lutea
Porites rus
Stylocoeniella armata

DEEP

Galaxea fascicularis
Pocillopora verrucosa
Porites monticulosa
Porites rus
Porites vaughani
Psammocora profundacella



DEEP

Acanthurus nigricans
Acanthurus nigrofuscus
Aphareus furca
Chlorurus microrhinos
Chlorurus sordidus
Ctenochaetus striatus
Lutjanus fulvus
Monotaxis grandoculis
Naso lituratus
Naso unicornis
Scarus psittacus
Zebrasoma flavescens



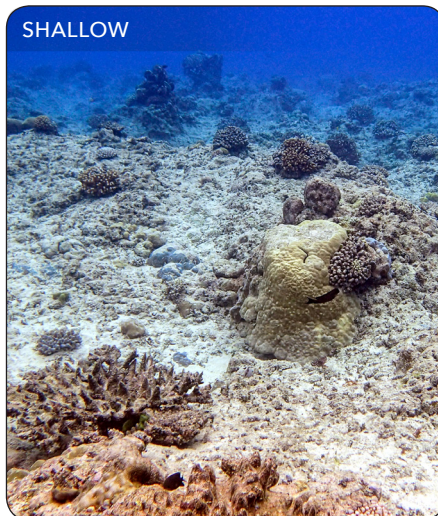
LUMINAO REEF

6 – Shallow, 3 – Deep



Enclosing Apra Harbor, Luminao Reef has the Glass Breakwater built atop it. Luminao is Chamorro for earthquake, named for the sound the waves make while breaking.

13.466° N, 144.638° E



DEEP SCORE: HIGH

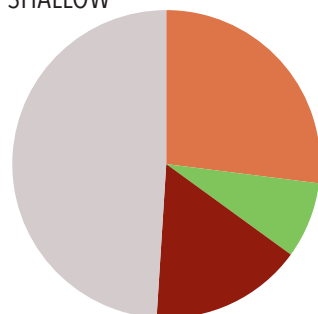
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	6/18	0.91	0.62	1.00	0.72	0.66	0.99	0.08	0.86
Deep	3/20	0.93	0.41	0.41	0.98	0.91	1.00	0.54	0.86

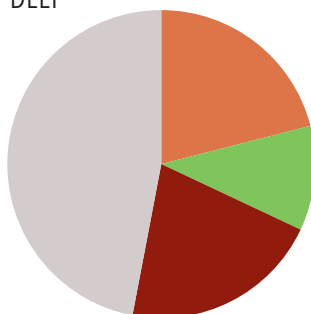
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Acanthurus nigrofusus
Chlorurus microrhinos
Chlorurus sordidus
Ctenochaetus striatus
Naso lituratus
Scarus psittacus
Zebrasoma veliferum

CORAL SPECIES

SHALLOW

Acanthastrea echinata
Acropora surculosa
Astrea curta
Cyphastrea microphthalma
Favia stelligera
Galaxea fascicularis
Goniastrea retiformis
Hydnophora microconos
Leptastrea purpurea
Leptoria phrygia
Montipora foveolata
Montipora grisea
Montipora tuberculosa
Montipora verrucosa



DEEP

Astreopora myriophthalma
Coscinaraea columna
Cycloseris vaughani
Cyphastrea chalcidicum
Dipsastraea danai
Dipsastraea favus
Dipsastraea maritima
Dipsastraea matthaii
Dipsastraea pallida
Favites colemani
Favites valenciennesi
Goniastrea edwardsi
Goniastrea retiformis
Goniastrea stelligera
Herpolitha weberi



DEEP

Acanthurus nigricans
Acanthurus nigricauda
Acanthurus nigrofusus
Acanthurus olivaceus
Aphareus furca
Calotomus carolinus
Cetoscarus bicolor
Chlorurus microrhinos
Chlorurus sordidus
Ctenochaetus striatus
Lutjanus fulvus
Naso lituratus
Naso vlamingii
Scarus globiceps
Scarus psittacus



SHALLOW SCORE: MED-HIGH

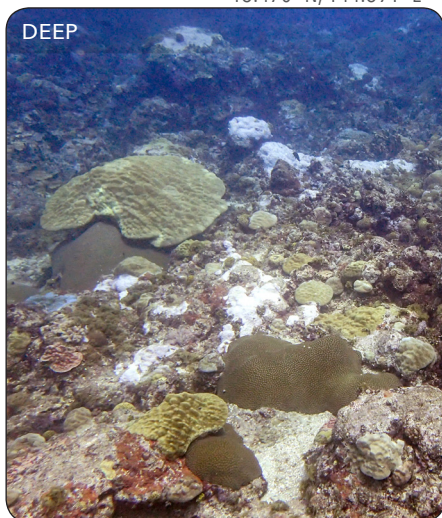
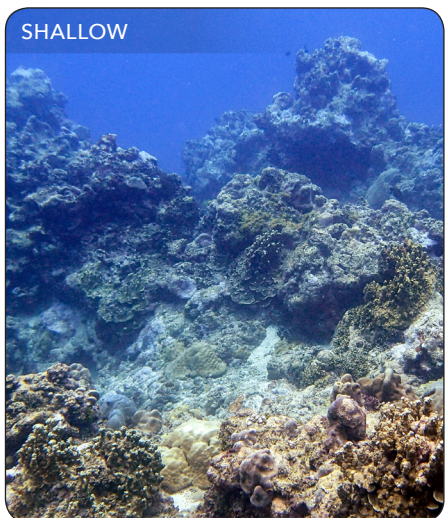
TEPUNGAN BAY

7 – Shallow, 10 – Deep



Also known as Piti Bay, this is one of Guam's marine protected areas and the location of The Fish Eye Observatory.

13.470° N, 144.691° E



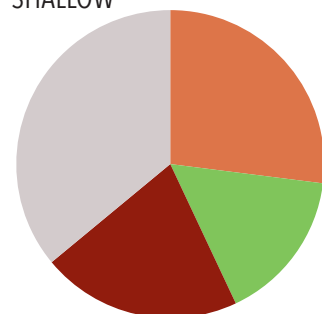
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	7/18	0.88	0.64	0.28	0.96	0.92	0.91	0.17	0.87
Deep	10/20	0.81	0.33	0.37	0.98	0.91	0.71	0.27	0.87

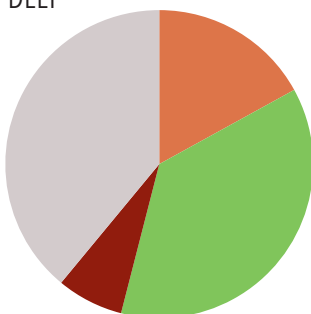
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

<i>Acanthurus lineatus</i>	<i>Macolor macularis</i>
<i>Acanthurus nigricans</i>	<i>Monotaxis grandoculis</i>
<i>Acanthurus nigrofuscus</i>	<i>Naso lituratus</i>
<i>Aphareus furca</i>	<i>Naso unicornis</i>
<i>Calotomus carolinus</i>	<i>Scarus altipinnis</i>
<i>Caranx melampygus</i>	<i>Scarus forsteni</i>
<i>Chlorurus microrhinos</i>	<i>Scarus globiceps</i>
<i>Chlorurus sordidus</i>	<i>Scarus psittacus</i>
<i>Ctenochaetus striatus</i>	<i>Scarus schlegeli</i>
<i>Kyphosus cinerascens</i>	<i>Zebrasoma veliferum</i>
<i>Lutjanus fulvus</i>	

CORAL SPECIES

SHALLOW

<i>Acanthastrea brevis</i>	<i>Leptastrea purpurea</i>
<i>Acanthastrea echinata</i>	<i>Leptoria phrygia</i>
<i>Acropora abrotenoides</i>	<i>Lobophyllia corymbosa</i>
<i>Acropora surculosa</i>	<i>Pavona chriquiensis</i>
<i>Astreopora listeria</i>	<i>Pavona varians</i>
<i>Astreopora myriophthalma</i>	<i>Platygyra pini</i>
<i>Dipsastraea danai</i>	<i>Pocillopora coniculus</i>
<i>Dipsastraea favus</i>	<i>Pocillopora damicornis</i>
<i>Dipsastraea maritima</i>	<i>Pocillopora verrucosa</i>
<i>Dipsastraea matthaii</i>	<i>Porites australiensis</i>
<i>Dipsastraea pallida</i>	<i>Porites horizontalata</i>
<i>Favites valenciennesi</i>	<i>Porites lobata</i>
<i>Galaxea fascicularis</i>	<i>Porites lutea</i>
<i>Goniastrea retiformis</i>	<i>Psammocora nierstrazi</i>
<i>Goniastrea stelligera</i>	<i>Stylocoeniella armata</i>

DEEP

<i>Acropora globiceps</i>	<i>Lobactis scutaria</i>
<i>Cyphastrea microphthalma</i>	<i>Paragoniastrea russelli</i>
<i>Dipsastraea danai</i>	<i>Pavona chriquiensis</i>
<i>Dipsastraea favus</i>	<i>Pavona varians</i>
<i>Dipsastraea maritima</i>	<i>Pocillopora coniculus</i>
<i>Dipsastraea matthaii</i>	<i>Pocillopora verrucosa</i>
<i>Dipsastraea pallida</i>	<i>Porites australiensis</i>
<i>Favites colemani</i>	<i>Porites lobata</i>
<i>Favites valenciennesi</i>	<i>Porites lutea</i>
<i>Galaxea fascicularis</i>	<i>Porites rus</i>
<i>Goniastrea edwardsi</i>	<i>Psammocora haimeana</i>
<i>Goniastrea pectinata</i>	<i>Stylocoeniella armata</i>
<i>Goniastrea stelligera</i>	
<i>Leptastrea purpurea</i>	

DEEP

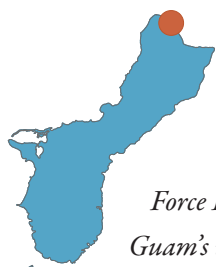
<i>Acanthurus nigricans</i>	<i>Plectropomus laevis</i>
<i>Acanthurus nigrofuscus</i>	<i>Scarus altipinnis</i>
<i>Acanthurus pyroferus</i>	<i>Scarus fuscocaudalis</i>
<i>Aphareus furca</i>	<i>Scarus psittacus</i>
<i>Calotomus carolinus</i>	<i>Scarus schlegeli</i>
<i>Chlorurus microrhinos</i>	<i>Zebrasoma flavescens</i>
<i>Chlorurus sordidus</i>	<i>Zebrasoma scopas</i>
<i>Ctenochaetus striatus</i>	
<i>Hipposcarus longiceps</i>	
<i>Lutjanus bohar</i>	
<i>Macolor macularis</i>	
<i>Monotaxis grandoculis</i>	
<i>Naso lituratus</i>	

SHALLOW SCORE: MED-HIGH

DEEP SCORE: MED-HIGH

JINAPSAN BEACH

8 – Shallow, 9 – Deep



Located on
the Anderson Air
Force Base, this is one of
Guam's well known turtle
nesting beaches

13.641° N, 144.886° E

SHALLOW

PHOTO
NOT AVAILABLE

DEEP

PHOTO
NOT AVAILABLE

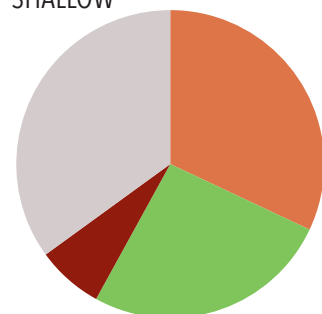
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	8/18	0.84	0.75	0.48	0.97	0.43	0.81	0.08	1.00
Deep	9/20	0.82	0.34	0.40	0.95	0.75	0.89	0.18	1.00

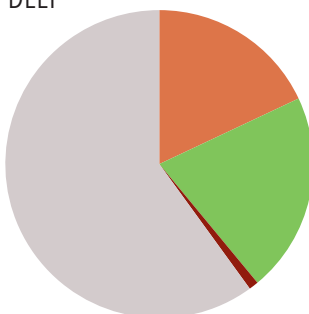
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Acanthurus blochii *Ctenochaetus striatus*
Acanthurus lineatus *Naso lituratus*
Acanthurus nigricans *Naso unicornis*
Acanthurus nigrofasciatus *Scarus forsteni*
Acanthurus olivaceus
Acanthurus pyroferus
Aphareus furca
Calotomus carolinus
Chlorurus sordidus

CORAL SPECIES

SHALLOW

Acanthastrea echinata
Acropora cerealis
Acropora globiceps
Acropora vauhani
Astrea curta
Astropora myriophthalma
Cyphastrea microphthalma
Dipsastraea favus
Dipsastraea matthaii
Dipsastraea pallida
Echinophyllia echinata
Favites colemani
Favites valenciennesi
Goniastrea edwardsi
Isopora cuneate

Leptastrea purpurea
Montipora efflorescens
Montipora floweri
Montipora grisea
Montipora hoffmeisteri
Montipora monasteriata
Montipora nodosa
Montipora tuberculosa
Pavona varians
Platygyra pini
Pocillopora meandrina
Pocillopora verrucosa
Porites australiensis
Porites lutea
Porites vauhani

DEEP

Acropora globiceps
Acropora surculosa
Astropora myriophthalma
Cyphastrea serailia
Dipsastraea danai
Dipsastraea favus
Dipsastraea heliathoides
Dipsastraea maritima
Dipsastraea matthaii
Dipsastraea pallida
Dipsastraea speciosa
Favites colemani
Goniastrea edwardsi
Leptastrea purpurea

Montipora grisea
Montipora hoffmeisteri
Montipora nodosa
Montipora venosa
Paragoniastrea russelli
Pavona varians
Platygyra pini
Pocillopora verrucosa
Porites australiensis
Porites lichen
Porites lutea
Stylophora pistillata

DEEP

Acanthurus nigricans
Acanthurus nigrofasciatus
Aphareus furca
Calotomus carolinus
Chlorurus sordidus
Ctenochaetus binotatus
Ctenochaetus striatus
Lutjanus bohar
Naso lituratus
Scarus globiceps
Scarus psittacus
Siganus argenteus

SHALLOW SCORE: MED-LOW

DEEP SCORE: MED-HIGH

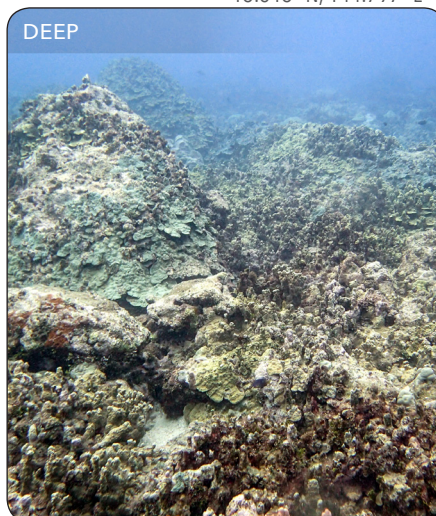
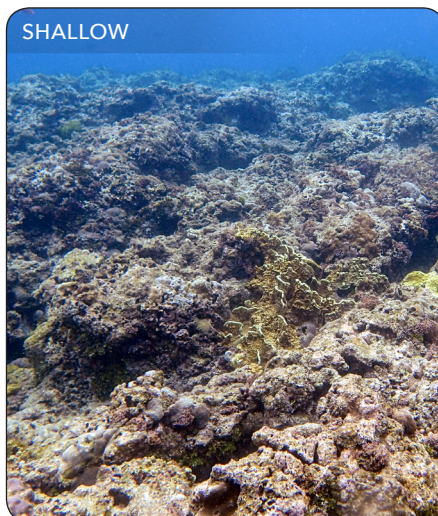
TUMON BAY

9 – Shallow, 5 – Deep



The original meaning of the word *Tumon* has been lost; the Tumon area is Guam's primary tourism district.

13.513° N, 144.797° E



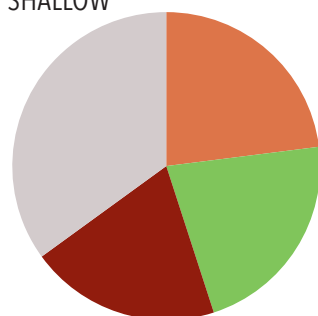
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	9/18	0.84	0.55	0.44	0.92	0.69	0.85	0.12	0.95
Deep	5/20	0.93	0.86	0.51	0.68	0.97	0.91	0.18	0.95

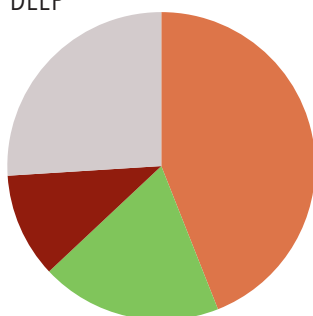
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Acanthurus lineatus *Scarus psittacus*
Acanthurus nigricans *Scomberoides lysan*
Acanthurus nigrofuscus
Aphareus furca
Calotomus carolinus
Chlorurus sordidus
Ctenochaetus striatus
Naso lituratus
Scarus globiceps

CORAL SPECIES

SHALLOW

Acanthastrea echinata
Acropora digitifera
Acropora surculosa
Dipsastraea matthaii
Galaxea fascicularis
Goniastrea retiformis
Goniastrea stelligera
Goniopora fruticosa
Leptastrea purpurea
Leptastrea transversa
Leptoria phrygia
Pavona varians
Platygyra pini
Pocillopora damicornis
Pocillopora setchelli



DEEP

Cyphastrea serailia
Dipsastraea speciosa
Favites colemani
Goniastrea edwardsi
Goniastrea retiformis
Goniopora minor
Leptastrea purpurea
Merulina ampliata
Millepora dichotoma
Millepora platyphyllia
Paragoniastrea russelli
Pavona varians
Pocillopora verrucosa
Porites australiensis
Porites horizontalata



DEEP

Acanthurus nigricans
Acanthurus nigrofuscus
Aphareus furca
Cephalopholis argus
Chlorurus sordidus
Ctenochaetus striatus
Elagatis bipinnulata
Lutjanus fulvus
Macolor niger
Monotaxis grandoculis
Naso lituratus
Scarus forsteni
Zebrasoma flavescens



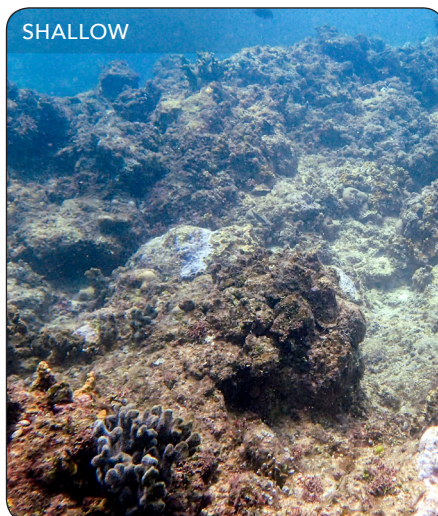
DADI BEACH

10 – Shallow, 12 – Deep



This is the site of the Orote Village, which persisted well into the 17th century and is now located on the Naval Base of Guam.

13.413° N, 144.651° E



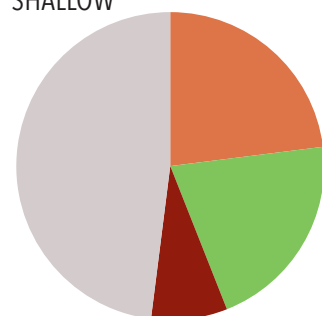
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	10/18	0.82	0.53	0.42	0.77	1.00	0.86	0.08	0.77
Deep	12/20	0.76	0.20	0.61	0.94	0.68	0.81	0.16	0.77

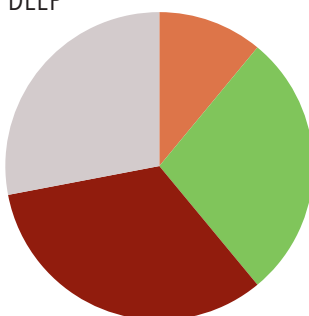
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Acanthurus nigricans
Acanthurus nigrofuscus
Calotomus carolinus
Chlorurus sordidus
Ctenochaetus striatus
Naso lituratus
Naso unicornis
Scarus psittacus

CORAL SPECIES

SHALLOW

Dipsastraea danai
Dipsastraea maritima
Favites valenciennesi
Goniastrea edwardsi
Goniastrea pectinate
Goniastrea retiformis
Heliopora coerula
Leptastrea purpurea
Pavona chriquiensis
Pavona clavus
Pavona varians
Porites australiensis
Porites deformis
Porites horizontalata
Porites lichen

Porites lobata
Porites lutea
Porites rus
Porites vauhani
Stylocoeniella armata
Stylophora pistillata

DEEP

Astreopora myriophthalma
Astreopora ocellata
Astreopora randalli
Cyphastrea microphthalma
Cyphastrea serailia
Dipsastraea danai
Dipsastraea favus
Dipsastraea maritima
Favites colemani
Favites valenciennesi
Galaxea fascicularis
Goniastrea edwardsi
Leptastrea purpurea
Montipora nodosa
Montipora verrucosa

Pavona varians
Pocillopora damicornis
Pocillopora danae
Pocillopora eydouxi
Pocillopora setchelli
Pocillopora verrucosa
Porites australiensis
Porites deformis
Porites lichen
Porites lobata
Porites lutea
Porites rus
Psammocora haimeana
Psammocora nierstrazi
Stylocoeniella armata
Stylocoeniella guentheri

DEEP

Acanthurus nigrofuscus
Calotomus carolinus
Chlorurus sordidus
Monotaxis grandoculis
Naso lituratus
Naso unicornis
Naso vlamingii
Scarus forsteni
Scarus psittacus
Scarus schlegeli

SHALLOW SCORE: MED-LOW

DEEP SCORE: MED-LOW

MANELL CHANNEL

11 – Shallow, 16 – Deep



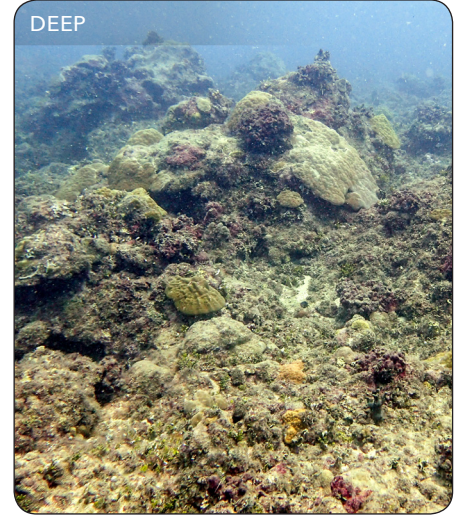
The channel provides access to Guam's southern reefs via a small boat ramp.

13.242° N, 144.694° E

SHALLOW

PHOTO
NOT AVAILABLE

DEEP



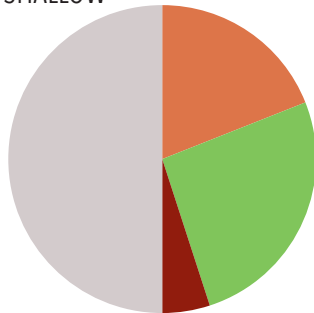
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	11/18	0.81	0.45	0.41	0.98	0.91	0.80	0.07	0.77
Deep	16/20	0.74	0.28	0.30	1.00	0.70	0.66	0.31	0.77

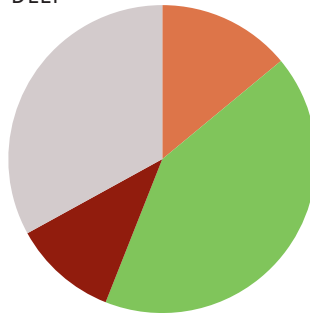
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Acanthurus nigricans
Acanthurus nigricauda
Acanthurus nigrofasciatus
Acanthurus olivaceus
Calotomus carolinus
Caranx melampygus
Chlorurus microrhinos
Chlorurus sordidus
Ctenochaetus striatus



Naso lituratus
Scarus psittacus
Scarus schlegeli
Siganus spinus

CORAL SPECIES

SHALLOW

Acanthastrea brevis
Acanthastrea echinata
Acropora globiceps
Astreopora myriophthalma
Cyphastrea chalcidicum
Cyphastrea serailia
Diploastrea heliophora
Dipsastraea favus
Dipsastraea maritima
Dipsastraea matthaii
Dipsastraea pallida
Dipsastraea rotundata
Favites colemani
Favites valenciennesi



Goniastrea edwardsi
Goniastrea retiformis
Goniopora fruticosa
Leptastrea purpurea
Leptoria phrygia
Montipora efflorescens
Pavona varians
Pocillopora damicornis
Porites australiensis
Porites lichen
Porites lutea
Porites rus
Stylocoeniella armata
Stylophora pistillata

DEEP

Acanthastrea brevis
Acanthastrea echinata
Astreopora myriophthalma
Astreopora ocellata
Astreopora randalli
Dipsastraea danai
Dipsastraea favus
Dipsastraea maritima
Dipsastraea matthaii
Dipsastraea pallida
Favites valenciennesi
Galaxea fascicularis
Goniastrea edwardsi
Goniastrea pectinata
Goniastrea retiformis



Goniopora fruticosa
Leptastrea purpurea
Montipora verrucosa
Paragoniastrea russelli
Pavona varians
Pocillopora damicornis
Pocillopora meandrina
Pocillopora verrucosa
Porites australiensis
Porites lichen
Porites lobata
Porites lutea
Porites vauhani
Psammocora haimeana
Scapophyllia cylindrical
Stylocoeniella armata

DEEP

Acanthurus nigrofasciatus
Acanthurus olivaceus
Aphareus furca
Chlorurus microrhinos
Chlorurus sordidus
Ctenochaetus binotatus
Ctenochaetus striatus
Macolor macularis
Monotaxis grandoculis
Naso lituratus
Plectropomus laevis
Scarus psittacus
Scarus schlegeli
Siganus argenteus



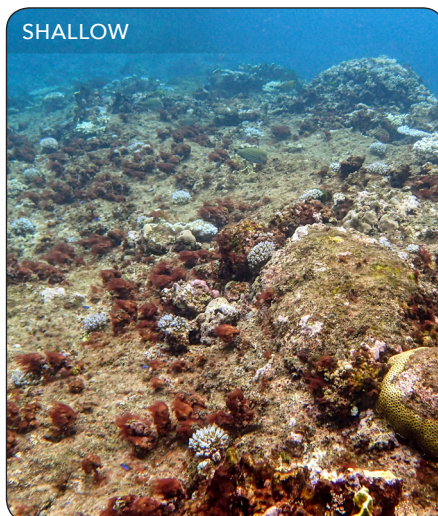
JANOM POINT

12 – Shallow, 13 – Deep



Janom is the Chamorro word for water; this area has significant freshwater springs.

13.527° N, 144.930° E



DEEP SCORE: MED-LOW

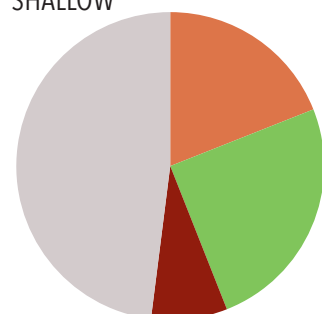
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	12/18	0.80	0.45	0.53	0.91	0.63	0.81	0.05	0.91
Deep	13/20	0.76	0.26	0.63	0.97	0.68	0.66	0.06	0.91

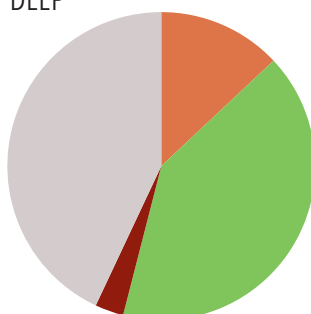
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Acanthurus blochii *Chlorurus sordidus*
Acanthurus guttatus *Ctenochaetus striatus*
Acanthurus lineatus *Naso lituratus*
Acanthurus nigricans *Scarus globiceps*
Acanthurus nigrofuscus *Scarus psittacus*
Acanthurus olivaceus
Acanthurus triostegus
Aphareus furca
Calotomus carolinus
Chlorurus microrhinos

CORAL SPECIES

SHALLOW

Acanthastrea brevis *Goniastrea stelligera*
Acanthastrea echinata *Leptastrea purpurea*
Acropora azurea *Leptoria phrygia*
Acropora cerealis *Montipora grisea*
Acropora monticulosa *Montipora hoffmeisteri*
Acropora surculosa *Montipora tuberculosa*
Astreopora myriophthalma *Paragoniastrea russelli*
Astrea curta *Pavona varians*
Cyphastrea microphthalma *Platygyra pini*
Cyphastrea serailia *Pocillopora verrucosa*
Dipsastraea favus *Porites lutea*
Dipsastraea maritima *Psammocora nierstrazi*
Galaxea fascicularis
Goniastrea retiformis

DEEP

Acanthastrea echinata *Favites valenciennesi*
Acropora cf. quelchi *Goniastrea edwardsi*
Acropora gemmifera *Goniastrea stelligera*
Acropora globiceps *Leptastrea purpurea*
Acropora tenuis *Montipora grisea*
Acropora verweyi *Montipora hoffmeisteri*
Astreopora listeria *Montipora nodosa*
Astreopora myriophthalma *Montipora tuberculosa*
Cyphastrea chalcidicum *Pavona varians*
Cyphastrea microphthalma *Pocillopora meandrina*
Dipsastraea danai *Pocillopora verrucosa*
Dipsastraea favus *Porites australiensis*
Dipsastraea maritima *Porites lichen*
Dipsastraea matthaii *Porites lobata*
Dipsastraea pallida *Porites lutea*
Favites colemani *Porites vaughani*
Stylocoeniella armata
Stylophora pistillata

DEEP

Acanthurus nigrofuscus
Acanthurus olivaceus
Acanthurus triostegus
Acanthurus xanthopterus
Chlorurus microrhinos
Chlorurus sordidus
Ctenochaetus binotatus
Ctenochaetus striatus
Paracanthurus hepatus

SHALLOW SCORE: MED-LOW

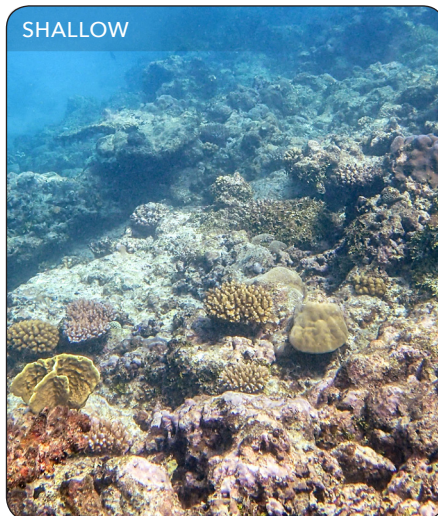
MANGILAO GOLF COURSE

13 – Shallow, 11 – Deep



Located just off the Mangilao Golf Course, this reef bench provides an optimal place for reef growth despite the harsh environmental conditions on the windward coast.

13.456° N, 144.838° E



DEEP SCORE: MED-LOW

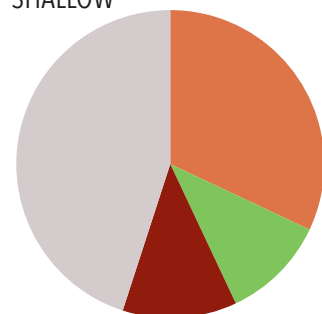
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	13/18	0.78	0.74	0.12	0.95	0.48	0.97	0.08	0.88
Deep	11/20	0.79	0.46	0.21	0.99	0.79	0.74	0.24	0.88

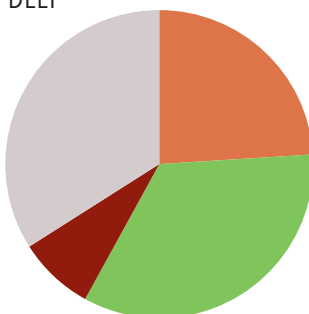
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Acanthurus blochii
Acanthurus guttatus
Acanthurus lineatus
Acanthurus nigricans
Acanthurus nigrofuscus
Acanthurus triostegus
Aprion virescens
Calotomus carolinus
Chlorurus frontalis
Chlorurus sordidus
Ctenochaetus striatus
Lethrinus harak
Naso lituratus
Scarus psittacus
Siganus spinus

CORAL SPECIES

SHALLOW

Acanthastrea echinata
Acropora azurea
Acropora cf. paniculata
Acropora gemmifera
Acropora robusta
Acropora surculosa
Astrea curta
Dipsastraea favus
Dipsastraea matthaii
Dipsastraea pallida
Favites colemani
Galaxea fascicularis
Goniastrea retiformis
Goniastrea stelligera
Leptoria phrygia
Millepora platyphyllia
Montipora tuberculosa
Paragoniastrea russelli
Pavona varians
Pocillopora meandrina

DEEP

Acropora surculosa
Astreopora myriophthalma
Astreopora ocellata
Cyphastrea microphthalma
Cyphastrea serailia
Dipsastraea favus
Dipsastraea maritima
Dipsastraea matthaii
Dipsastraea pallida
Favites colemani
Galaxea fascicularis
Goniastrea edwardsi
Goniastrea stelligera
Goniopora fruticosa
Leptastrea purpurea
Montipora foveolata
Paragoniastrea russelli
Platygyra daedalea
Pocillopora danae
Porites australiensis
Porites horizontalata
Porites lichen
Porites lobata
Porites lutea
Porites deformis
Psammocora haimeana
Psammocora nierstrazi
Stylocoeniella armata

DEEP

Acanthurus nigricans
Acanthurus nigrofuscus
Acanthurus pyroferus
Acanthurus triostegus
Aphareus furca
Calotomus carolinus
Chlorurus microrhinos
Chlorurus sordidus
Ctenochaetus striatus
Gymnocranius sp.
Kyphosus cinerascens
Lutjanus fulvus
Lutjanus monostigma
Macolor macularis
Naso lituratus
Plectorhinchus vittatus
Scarus forsteni
Scarus globiceps
Scarus psittacus
Scarus schlegeli
Siganus argenteus

SHALLOW SCORE: MED-LOW

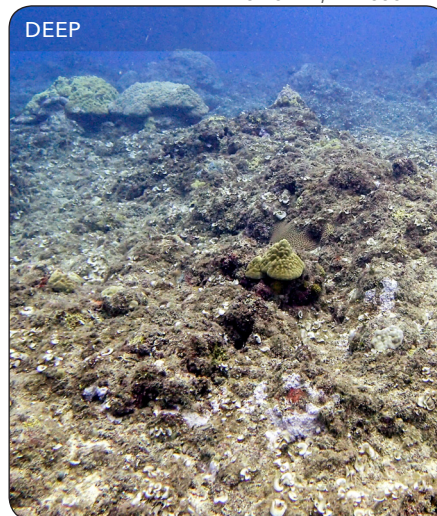
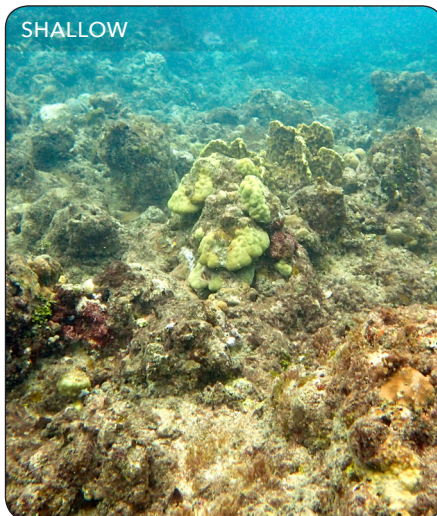
COCOS BARRIER REEF WEST

14 – Shallow, 14 – Deep



Named after the island it surrounds, Cocos receives its name from the coconut trees that cover the tiny island. The original Chamorro name for the island is *Islan Dãno*.

13.267° N, 144.656° E



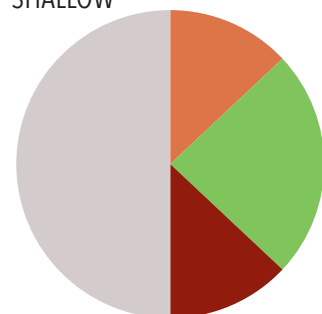
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	14/18	0.78	0.30	0.41	0.95	0.83	0.83	0.07	0.84
Deep	14/20	0.74	0.15	0.54	0.92	0.79	0.69	0.14	0.84

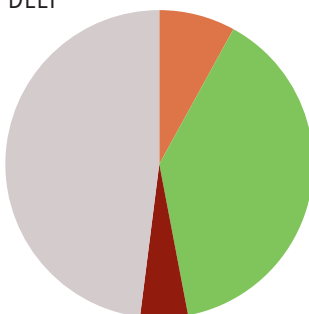
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Acanthurus lineatus
Acanthurus nigricans
Acanthurus nigrofusus
Acanthurus olivaceus
Chlorurus sordidus
Ctenochaetus striatus
Naso lituratus
Scarus globiceps
Scarus schlegeli



CORAL SPECIES

SHALLOW

Acanthastrea echinata
Acropora globiceps
Acropora verweyi
Cyphastrea serailia
Dipsastraea favus
Dipsastraea maritima
Dipsastraea matthaii
Favites valenciennesi
Galaxea fascicularis
Goniastrea edwardsi
Goniastrea retiformis
Goniastrea stelligera
Hydnophora microconos
Leptastrea purpurea
Leptoria phrygia



DEEP

Acanthastrea echinata
Astreopora listeria
Astreopora myriophthalma
Astreopora ocellata
Cyphastrea serailia
Dipsastraea favus
Dipsastraea maritima
Dipsastraea matthaii
Favites colemani
Favites valenciennesi
Goniastrea edwardsi
Goniastrea pectinate
Goniastrea retiformis
Leptastrea purpurea



DEEP

Acanthurus nigrofusus
Aphareus furca
Calotomus carolinus
Carcharhinus melanopterus
Chlorurus sordidus
Ctenochaetus striatus
Gnathodentex aureolineatus
Lutjanus bohar
Monotaxis grandoculis
Naso lituratus
Naso unicornis
Naso vlamingii
Scarus psittacus



SHALLOW SCORE: MED-LOW

DEEP SCORE: MED-LOW

COCOS BARRIER REEF EAST

15 – Shallow, 20 – Deep



Named after the island it surrounds, Cocos receives its name from the coconut trees that cover the tiny island. The original Chamorro name for the island is *Islan Dãno*.

13.232° N, 144.648° E



DEEP SCORE: **LOW**

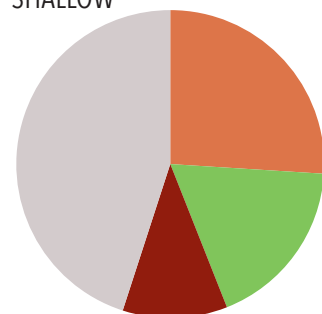
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	15/18	0.78	0.60	0.19	0.99	0.67	0.89	0.07	0.78
Deep	20/20	0.64	0.26	0.32	0.92	0.53	0.56	0.12	0.78

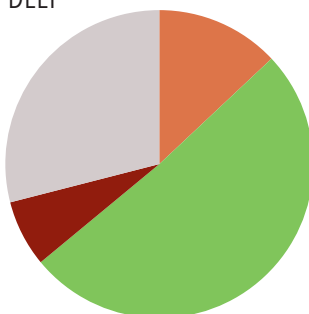
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Acanthurus nigricans
Acanthurus nigrofuscus
Calotomus carolinus
Chlorurus sordidus
Ctenochaetus striatus
Lutjanus bohar
Naso lituratus
Scarus psittacus
Scarus schlegeli
Siganus spinus

CORAL SPECIES

SHALLOW

Acropora azurea
Acropora cerealis
Acropora cophodactyla
Acropora digitifera
Acropora surculosa
Acropora verweyi
Astrea curta
Cyphastrea chalcidicum
Dipsastraea favus
Dipsastraea maritima
Dipsastraea pallida
Favites colemani
Galaxea fascicularis
Goniastrea edwardsi
Goniastrea retiformis
Goniastrea stelligera



DEEP

Astreopora listeria
Astreopora myriophthalma
Astreopora randalli
Cyphastrea microphthalma
Cyphastrea serailia
Dipsastraea favus
Dipsastraea maritima
Dipsastraea matthaii
Favites colemani
Galaxea fascicularis
Goniastrea edwardsi
Heliopora coerula
Leptastrea purpurea
Leptoseris incrustans



DEEP

Acanthurus nigrofuscus
Acanthurus olivaceus
Chlorurus sordidus
Ctenochaetus binotatus
Ctenochaetus striatus
Ctenochaetus strigosus
Naso lituratus
Scarus fuscocaudalis
Scarus psittacus
Scarus schlegeli
Siganus argenteus
Zebrasoma flavescens



SHALLOW SCORE: **MED-LOW**

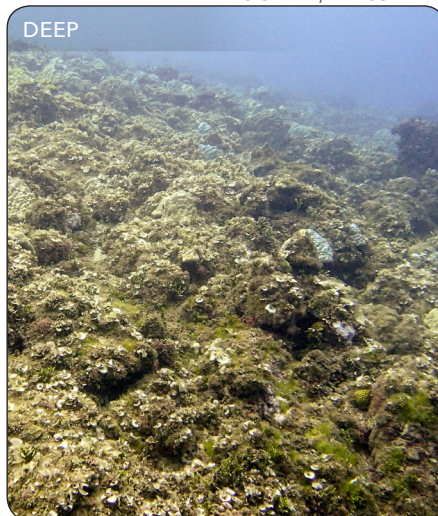
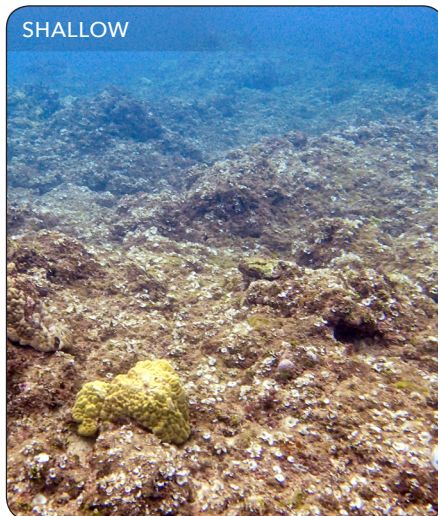
FACPI POINT

16 – Shallow, 19 – Deep



A prominent feature of southwestern Guam, the Point contains a massive stack of black coralline limestone, resulting from a volcanic eruption. *Facpi* is the Chamorro word for the Pacific frigate bird (*Fregata minor minor*).

13.344° N, 144.639° E



DEEP SCORE: LOW

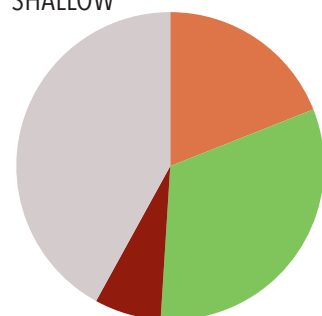
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	16/18	0.77	0.44	0.30	0.94	0.88	0.73	0.04	0.82
Deep	19/20	0.66	0.20	0.19	0.97	0.88	0.44	0.13	0.82

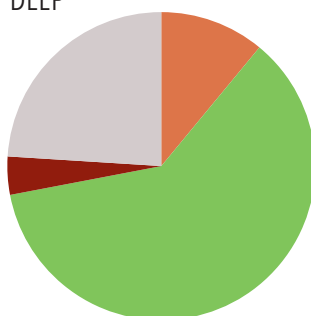
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Acanthurus nigricauda
Acanthurus nigrofuscus
Acanthurus pyroferus
Calotomus carolinus
Chlorurus microrhinos
Chlorurus sordidus
Ctenochaetus striatus
Naso lituratus
Scarus psittacus

CORAL SPECIES

SHALLOW

Acanthastrea brevis
Acropora cerealis
Astreopora listeria
Astreopora myriophthalma
Astreopora ocellata
Cyphastrea serailia
Dipsastraea favus
Dipsastraea matthaii
Favites colemani
Galaxea fascicularis
Leptastrea purpurea
Leptastrea transversa
Pavona varians
Porites australiensis



DEEP

Acropora globiceps
Acropora selago
Astreopora cf. gracilis
Astreopora listeria
Astreopora myriophthalma
Astreopora ocellata
Cyphastrea chalcidicum
Cyphastrea serailia
Dipsastraea favus
Dipsastraea maritima
Dipsastraea matthaii
Dipsastraea pallida
Favites valenciennesi
Goniopora minor



DEEP

Acanthurus nigrofuscus
Acanthurus olivaceus
Calotomus carolinus
Chlorurus sordidus
Ctenochaetus binotatus
Lutjanus bohar
Monotaxis grandoculis
Naso lituratus
Scarus schlegeli
Variola louti
Zebrasoma veliferum



SHALLOW SCORE: MED-LOW

GA'AN POINT

17 – Shallow, 17 – Deep



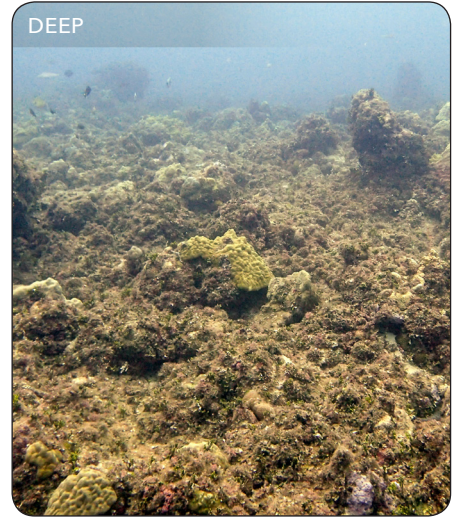
*Ga'an Point was
the site of a battle
during World War II.*

13.388° N, 144.653° E

SHALLOW

PHOTO
NOT AVAILABLE

DEEP



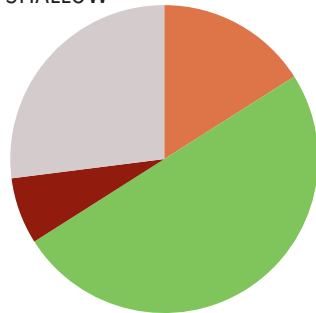
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	17/18	0.72	0.36	0.23	0.95	0.96	0.54	0.08	0.77
Deep	16/20	0.72	0.24	0.31	0.89	0.94	0.71	0.09	0.77

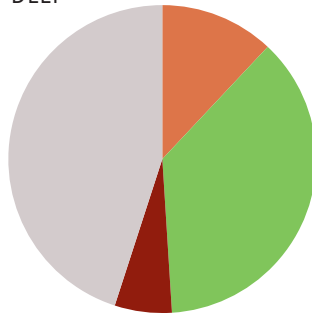
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW



Acanthurus nigrofuscus *Siganus spinus*
Calotomus carolinus *Zebrasoma veliferum*
Chlorurus microrhinos
Chlorurus sordidus
Ctenochaetus striatus
Naso lituratus
Naso unicornis
Scarus globiceps
Scarus psittacus

CORAL SPECIES

SHALLOW



Dipsastraea danae *Pocillopora damicornis*
Dipsastraea favus *Pocillopora verrucosa*
Dipsastraea matthaii *Porites lichen*
Echinopora pacificus *Porites murrayensis*
Fungia fungites *Porites rus*
Galaxea fascicularis *Porites vaughani*
Goniastrea retiformis *Psammocora contigua*
Heliopora coerulea *Stylocoeniella armata*
Leptastrea purpurea
Leptoria phrygia
Pavona chiriquiensis
Pavona maldivensis
Pavona sp.
"albomarginata"
Pavona varians

DEEP



Acanthastrea echinata *Porites deformis*
Acropora humilis *Porites lichen*
Astreopora myriophthalma *Porites lobata*
Astreopora randalli *Porites lutea*
Dipsastraea favus *Porites rus*
Dipsastraea maritima *Stylocoeniella armata*
Dipsastraea pallida
Echinopora lamellosa
Favites valenciennesi
Galaxea fascicularis
Herpolitha limax
Leptastrea purpurea
Pavona varians
Pocillopora verrucosa

DEEP



Acanthurus nigrofuscus
Acanthurus olivaceus
Aphareus furca
Calotomus carolinus
Chlorurus sordidus
Ctenochaetus striatus
Naso lituratus
Naso unicornis
Scarus schlegelii

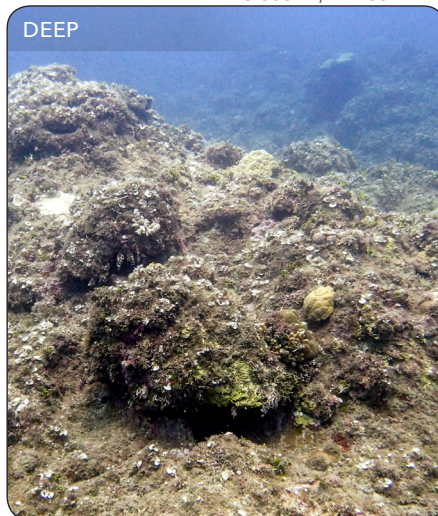
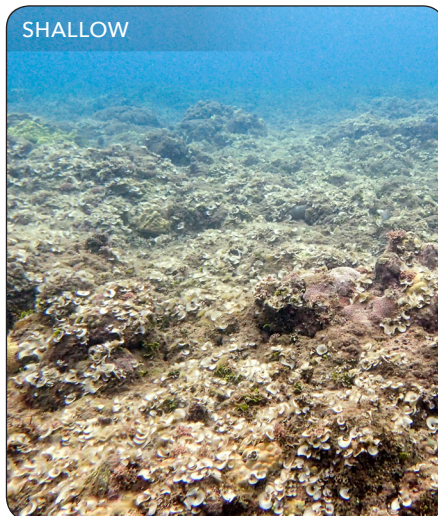
FOUHA BAY

18 – Shallow, 18 – Deep



Fouha Bay is where the ancient Chamorro creation myth originates. The story says that the first humans emerged from Fouha Rock, which was formed by the creation gods Puntan and Fu'una.

13.308° N, 144.654° E



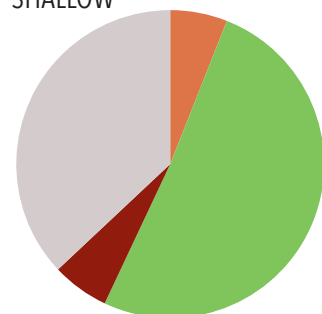
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	18/18	0.62	0.14	0.13	0.74	0.94	0.54	0.04	0.82
Deep	18/20	0.67	0.25	0.15	0.96	0.87	0.60	0.04	0.82

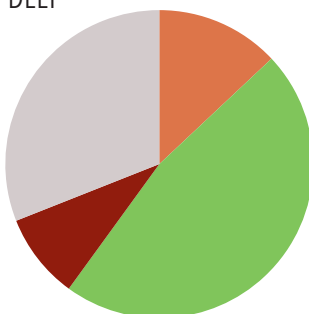
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Acanthurus nigricauda
Acanthurus nigrofuscus
Aphareus furca
Calotomus carolinus
Chlorurus sordidus
Ctenochaetus striatus
Monotaxis grandoculis
Naso annulatus
Naso lituratus



CORAL SPECIES

SHALLOW

Acropora humilis
Astreopora myriophthalma
Dipsastraea matthaii
Goniopora fruticosa
Leptastrea purpurea
Pavona bipartita
Porites lobata
Porites lutea
Psammocora haimeana



DEEP

Acanthastrea brevis
Astreopora myriophthalma
Astreopora randalli
Cyphastrea microphthalma
Cyphastrea serailia
Diploastrea heliopora
Dipsastraea favus
Dipsastraea maritima
Dipsastraea matthaii
Dipsastraea speciose
Favites valenciennesi
Goniastrea edwardsi
Goniastrea pectinata



DEEP

Acanthurus nigricauda
Acanthurus nigrofuscus
Calotomus carolinus
Chlorurus sordidus
Ctenochaetus striatus
Epinephelus fasciatus
Epinephelus merra
Lutjanus fulvus
Monotaxis grandoculis
Naso lituratus
Naso unicornis
Scarus forsteni



SHALLOW SCORE: LOW

DEEP SCORE: LOW

PATI POINT

N/A – Shallow, 8 – Deep



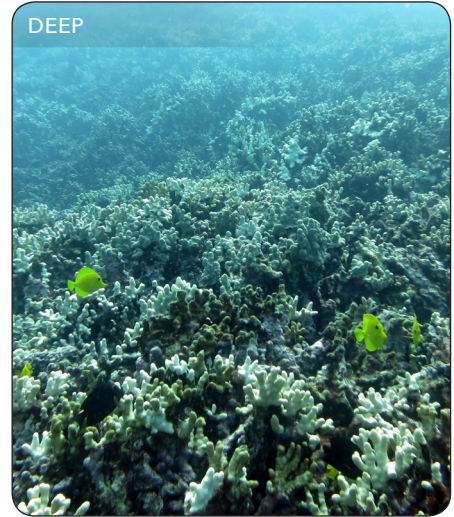
Guam's eastern most point, Pati Point is often inaccessible due to the near year-round presence of large waves.

13.601° N, 144.950° E

SHALLOW

PHOTO
NOT AVAILABLE

DEEP



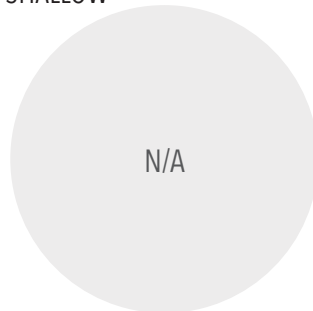
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Deep	7/20	0.84	0.38	0.41	0.98	0.69	0.94	0.33	0.85

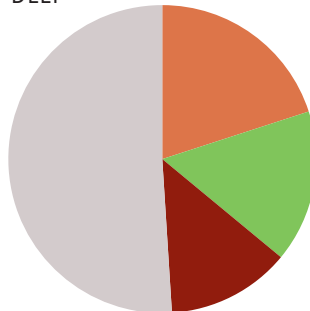
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Not applicable

CORAL SPECIES

SHALLOW

Not applicable

DEEP

Acropora cerealis
Astrea curta
Astreopora myriophthalma
Astreopora ocellata
Cyphastrea chalcidicum
Cyphastrea serailia
Dipsastraea favus
Dipsastraea maritima
Dipsastraea matthaii
Dipsastraea pallida
Favites valenciennesi
Galaxea fascicularis
Goniastrea edwardsi
Goniastrea stelligera

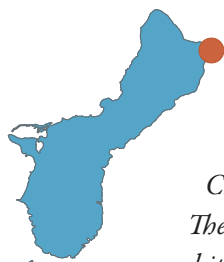
Leptastrea purpurea
Montipora caliculata
Montipora hoffmeisteri
Montipora nodosa
Montipora tuberculosa
Montipora verrucosa
Pavona clavus
Pavona varians
Pavona venosa
Platygyra pini
Pocillopora elegans
Porites lichen
Porites lobata
Porites lutea
Porites rus

DEEP

Acanthurus nigricans
Acanthurus nigricauda
Acanthurus nigrofuscus
Acanthurus olivaceus
Acanthurus triostegus
Acanthurus xanthopterus
Aethaloperca rogaa
Aphareus furca
Aprion virescens
Calotomus carolinus
Caranx melampygus
Cheilinus undulates
Chlorurus sordidus
Ctenochaetus striatus
Gymnosarda unicolor
Hipposcarus longiceps
Lutjanus bohar
Lutjanus monostigma
Macolor macularis
Monotaxis grandoculis
Naso hexacanthus
Naso lituratus
Naso vlamingii
Scarus forsteni
Scarus fuscocaudalis
Scarus psittacus
Scarus rubroviolaceus
Variola louti

LATTE POINT

N/A – Shallow, 15 – Deep

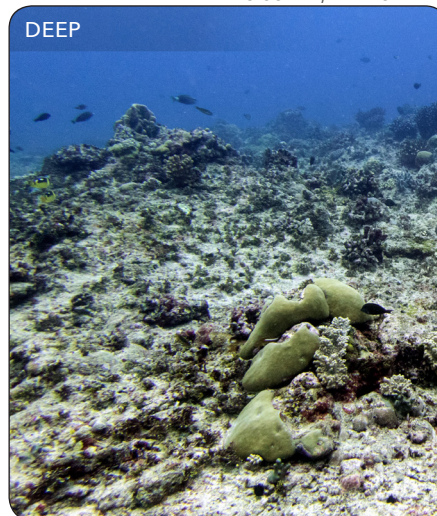


The latte is a symbol of Chamorro culture. The latte stones were architectural structures used to build ancient Chamorro homes.

SHALLOW

PHOTO
NOT AVAILABLE

DEEP



13.587° N, 144.952° E

DEEP SCORE: MED-LOW

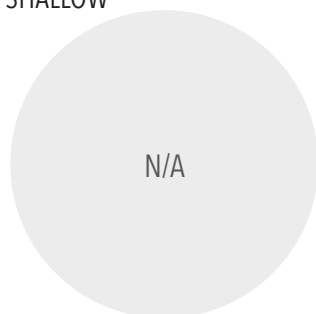
RELATIVE RESILIENCE

Depth	Rank	Resilience Score	Coral Cover	Coral Diversity	Coral Recruitment	Bleaching Resistance	Macroalgae Cover	Herbivorous Fish Biomass	Temperature Variability
Shallow	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Deep	17/20	0.74	0.23	0.34	0.96	0.59	0.86	0.21	0.85

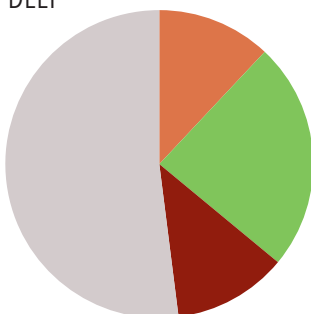
● High (>avg+1 SD) ● Med-High (>avg and <avg+1 SD) ● Med-Low (<avg and >avg - 1 SD) ● Low (<avg - 1 SD)

BENTHIC COMMUNITY

SHALLOW



DEEP



● Coral
● Macroalgae
● Coralline algae
● Other

FISH SPECIES

SHALLOW

Not applicable

CORAL SPECIES

SHALLOW

Not applicable

DEEP

Astreopora myriophthalma
Astreopora ocellata
Cyphastrea serailia
Dipsastraea maritima
Dipsastraea matthaii
Dipsastraea pallida
Favites valenciennesi
Goniastrea retiformis
Goniastrea stelligera
Heliopora coerula
Leptastrea purpurea
Lobophyllia hemprichii
Montipora caliculata
Montipora cf. venosa

DEEP

Montipora hoffmeisteri
Montipora tuberculosa
Pavona clavus
Pavona varians
Pocillopora elegans
Pocillopora eydouxi
Pocillopora verrucosa, *Porites australiensis*
Porites lichen
Porites lutea
Porites vaughani
Stylocoeniella armata
Stylophora pistillata

DEEP

Acanthurus blochii
Acanthurus nigricans
Acanthurus nigrofasciatus
Acanthurus olivaceus
Aethaloperca rogaa
Aphareus furca
Calotomus carolinus
Chlorurus microrhinos
Chlorurus sordidus
Ctenochaetus striatus
Gymnosarda unicolor
Lutjanus bohar
Macolor macularis
Naso lituratus
Naso unicornis

SHALLOW SCORE: N/A