

**Puerto Rico geologic map units by geologic terranes**  
 [Stratigraphic units listed alphabetically within terrane]

Map unit symbol

Map unit

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**NONVOLCANICLASTIC TERRANES**

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Quaternary:

Qa	Alluvium
Qb	Beach deposits
QTs	Blanket sand deposits
Ql	Landslide deposits
Qs	Swamp deposits
af	Artificial fill

Pliocene through Oligocene:

Tcbga	Almirante Sur Sand Lentil of Cibao Formation
Ta	Aguada Limestone
Tay	Aymamon Limestone
Tcm	Camuy Formation
Tcb	Cibao Formation
Tcbg	Guajataca Member of Cibao Formation
Tgua	Guanajibo Formation
Tjd	Juana Diaz Formation
Tla	Lares Limestone
Tcbmi	Miranda Sand Member of Cibao Formation
Tcbm	Montebello Limestone Member of Cibao Formation
Tmu	Mucarabones Sand
Tpo	Ponce Limestone
Tcbq	Quebrada Arenas Limestone Member of Cibao Formation
Tcbr	Rio Indio Limestone Member of Cibao Formation
Ts	San Sebastian Formation
Tfb	Fault breccia

Eocene through Cretaceous:

Tco	Corozal Limestone
Kcot	Cotui Limestone
Tc	Cuevas Limestone
Tg	Guayo Formation
Klm	La Muda Formation
Kp	Parguera Limestone
Kpe	Penones Limestone

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## INTRUSIVE TERRANES

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### Tertiary through Cretaceous:

TKas	Alkali syenite
TKap	Augite andesite porphyry
TKahp	Augite-hornblende porphyry
TKat	Augite trachybasalt
Td	Porphyritic dacite
TKda	Amygdaloidal dacite
TKg	Diabasic gabbro
Tga	Gabbro
TKgm	Granodiorite quartz monzonite
TKhda	Hornblende dacite
TKh	Porphyry Hornblende quartz-diorite
Thp	Hornblende quartz diorite porphyry
TKdi	Diorite
TKqd	Quartz diorite-granodiorite
TKk	Quartz keratophyre
Trhp	Rhyodacite porphyry

### Cretaceous:

Kdi	Diorite
Kdh	Diorite-hornblende gabbro
Kcag	Granodiorite of the Caguas pluton
Kmc	Granodiorite of Morovis and Ciales stocks
Kpgq	Quartz diorite - plutonic complex of Punta Guayanes
Kpsg	Granodiorite of the plutonic complex of Punta Guayanes and the granodiorite of San Lorenzo batholith, undivided
Ksl	Granodiorite-quartz diorite of San Lorenzo batholith
Ku	Granodiorite-quartz diorite of the Utuado batholith
Kib	Intrusive breccia of the Daguao Formation
Kslg	Mixed granodiorite-diorite of the San Lorenzo batholith
Kpgg	Granodiorite of plutonic complex of Punta Guayanes
Kpsq	Quartz diorite of plutonic complex of Punta Guayanes and of the Granodiorite of San Lorenzo batholith
Kslq	Quartz diorite facies of Granodiorite of San Lorenzo batholith and diorite-hornblende gabbro
Kpgqm	Quartz monzonite of plutonic complex of Punta Guayanes
Kpob	Two pyroxene olivine basalt

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## VOLCANICLASTIC TERRANES

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### SUBAERIAL:

Kcb	Cambalache Formation
Kpo	Pozas Formation

### MARINE:

#### Tertiary

Tca	Carreras Siltstone
Tj	Jicara Formation
Tjo	Jobs Formation
Tl	Los Puertos Formation
Tm	Monserrate Formation
Tor	Ortiz Formation
Tpa	Palmarejo Formation
Tra	Raspaldo Formation
Tr	Rio Culebrinas Formation
Trd	Rio Descalabrado Formation
Trp	Rio Piedras Siltstone
Ty	Yunes Formation

#### Tertiary and Cretaceous:

TKa	Anon Formation
TKamo	Anon-Monserrate Formations, undivided
TKay	Anon and Yauco Formations, undivided
TKam	Anon and Maricao Formations, undivided
TKci	Cibuco Formation
TKgu	Guaracanal Formation
TKl	Lago Garzas Formation
TKaym	Anon, Yauco, and Maricao Formations, undivided
TKlam	Lago Garzas, Anon, and Maricao Formations, undivided
TKly	Lago Garzas and Yauco Formations, undivided
TKal	Anon Formations and Lago Garzas, undivided
TKm	Maricao Formation
TKmy	Maricao and Yauco Formations, undivided
TKmly	Maricao, Lago Garzas, and Yauco Formations, undivided
TKn	Naranjito Formation
TKy	Yauco Formation

Cretaceous:

Kac	Achiote Conglomerate
Kal	Alonso Formation
Kba	Barrazas Formation
Kcam	Camarones Sandstone
Kcn	Canovanas Formation
Kca	Cariblanco Formation
Kcan	Cancel Breccia
Kcar	Carraizo Breccia
Kcoa	Coamo Formation
Keo	El Ocho Formation
Kfa	Fajardo Formation
Kfr	Frailes Formation
Kg	Guaynabo Formation
Kh	Hato Puerco Formation
Kja	Jayuya Tuff
Kln	Los Negros Formation
Kma	Magueyes Formation
Kmal	Malo Breccia
Kman	Manicaboa Formation
Kmar	Maravillas Formation
Kmag	Martin Gonzalez Lava
Km	Melones Limestone
Kmo	Monacillo Formation
Kpa	Pajaros Tuff
Kpi	Pitahaya Formation
Kra	Rio Abajo Formation
Krp	Rio de la Plata Sandstone
Kr	Robles Formation
Ks	Sabana Grande Formation
Kta	Tabonuco Formation
Kte	Tetuan Formation
Kt	Torrecilla Breccia
Kto	Tortuga Andesite
Kv	Vista Alegre Formation

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**ALTERATION TERRANE**

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TKmv	Metavolcanic rock
TKha	Hydrothermally altered rock

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**SUBMARINE BASALT AND CHERT TERRANE**

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Kabcj	Formations A, B, C, & J
Kav	Avispa Formation
Kap	Avispa and Perchas Formations, undivided
Kbo	Boqueron Basalt
KJc	Cajul Basalt
Kce	Celada Formation
Kcg	Cerro Gordo Lava
Kco	Concepcion Formation
Kctt	Cotorra Tuff
Kd	Daguao Formation
Ke	El Rayo Formation
Kf	Figuera Lava
Kfd	Figuera and Daguao Formations, undivided
Ki	Infierno Formation
Kl	Lajas Formation
Klo	Lomas Formation
Kmam	Mameyes Formation
KJm	Mariquita Chert
Kper	Perchas Formation
Kso	Santa Olaya Lava

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**ULTRAMAFIC ROCK AND AMPHIBOLITE TERRANE**

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KJa	Amphibolite
KJas	Amphibolite-Serpentinite
KJs	Serpentinite
KJb	Spillitized Basalt