

Coos Bay Dune Sheet, Oregon

UTM Sector and Datum (xx/yr), Northing, Easting, Estimated Error (EPE +-m), DEM Altitude (Alt m MSL).

Exposure Type: Active (AC), Trench (TR), Auger (AU), Road Cut (RC), Creek Cut (CC), Sea Cliff (SC), Slope (SL).

Units: Age: Tertiary (T), Pleistocene (P), Holocene (H), Wave-cut Platform (W); Parent Material; Soil Horizon

Parent Material: Eolian Dune (D), Loess (L), Colluvium (U), Peat (P), Alluvial/Fluvial (V), Lagoonal/Estuary (N), Beach Shoreface (S), Basal Conglomerate (M).

Note: Loess (L) is designated where it overlies bedrock, colluvium, or pre-existing Bw/Bt horizons.

Soil Horizon: Organic (A), Leached (E), Accumulation (B), Fe+3 Accumulation (Bw), Incipient Clay Accumulation (Btj), Clay Accumulation (Bt), Humate Accumulation (Bh), Calcrete (Bk), Silcrete (Bq), Reduced Glade Layer (Bg), Subsoil Calcrete (K), Dune Parent (C), Oxidized Parent (Cox).

Subsurface depth (cm); Dominant Grain Size: Silt, Sand, Pebbles, Cobbles (default is sand)

Sand sizes (Coarse U/L, Medium U/L, Fine U/L, VeryFine U/L)

Bedding: Cross Beds (XB,dipxx), Planar Beds (PB), Fluidization (FL), Heavy Mineral Laminae (HM)

Munsell Maximum Color (field condition: moist)

Penetrometer: (P. kg/square cm) unconfined compressive strength.

Structure: loose, very weak blocky, weak blocky, strong blocky, columnar/prismatic.

Diagenesis: Fe-ortstein, Fe-humate, allophane, gibbsite, calcrete, silcrete

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS1	10N/1983	4834890	403880	10	78	5/1/01	RC
Site Notes: This site is located west of US101 on road to lighthouse (TL Sample UL1 taken at 3.9 m depth).							
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
LA	0-10	Silt				Loose	
LBw	10-40	Silt			1.75	Very Weak B.	
PDBtj	40-90	VFL		10yr3/4	3	Weak Blocky	
PDCox	90-130	FU		2.5y4/4	2.25	Very Weak B.	
PDBw	130-150	FU		10yr5/6		Very Weak B.	
PDCox	150-400	FU		2.5y5/4		Very Weak B.	
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS2	10N/1983	4834610	404360	20	114	11/1/96	RC
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
T							
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS3	10N/1983	4834260	404260		114	11/1/96	RC
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
PD	1-100						
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS4	10N/1983	4831800	402330	20	9	5/16/00	AU
Site Notes: UD2 ODOT- drill rig site at beach access road south of Umpqua south jetty.							
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDC	0-700	FU					
HS	700-950	CL					
Bg	950-1050						
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS5	10N/1983	4831310	402900	10	74	6/26/96	RC/AU
Site Notes: TL Sample UD1B taken at 630 cm depth.							
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDA	0-30	FU		7.5yr3/3		Loose	
HDBw	30-60	FU		10yr5/2		Very Weak B.	
HDC	60-400	FU		2.5y6/4		Loose	

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS6	10N/1983	4830210	404370		8	66	2/2/02 RC
Site Notes: This site (Wildwood Rd) includes thin Holocene dune cover over Pleistocene loess and dune sand.							
TL sample WW1 taken at 2 m depth in section 20 m north of profile site in Holocene dunes above loess.							
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDA	0-3					1 Loose	
HDBw	3-25	FU		10yr3/6		2.5 Very Weak B.	
HDCox	25-95	FU				1.5 Very Weak B.	
LBw	95-160	Silt				2.5 Very Weak B.	
PDBtj	160-200	FL				4 Weak Blocky	
TBtj	200-300						
T	300-400	Siltstone					

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS7	N10/83	4829410	403030		4	65	7/22/01 AC
Site Notes: This site (UD3) includes features originally mapped at UD2 at UTM-N4829150-N4829180.							
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDA	0-30						
DCox	30-180						
DC	180-230						
T	230-250						

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS8	10N/1983	4829180	403140		20	43	12/1/98 AC
Site Notes: UD2-98--includes dunal paleosol above bedrock, exposed by local scouring of modern dune sand.							
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
PDBw	0-10						
T							

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS9	10N/1983	4828540	404600	20	35	11/1/96	RC
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
T							

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS10	10N/1983	4826230	405120	20	13	11/1/96	RC
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
T							

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS11	10N/1983	4826000	403370		10	16 11/25/96	AU
Site Notes: LK2							
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDA	0-20			2.5y4/4			
HDBw	20-40	FU		2.5y3/6			
HDCox	40-80			2.5y7/3			
HDC	80-520			2.5y6/4			

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS12	10N/1983	4825870	403690		10	28	2/3/02 AU
Site Notes: LK1 Site is west of landing stip at Lakeside (TL sample at 4 m depth).							
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis

HDBw	0-20	FL		10yr7/2		1	Very Weak B.
HDCox	20-50	FL		2.5y5/4		1	Loose
HDC	50-510	FL		2.5y6/3			Loose
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS13	10N/1983	4824850	403620		10	53 11/24/96	RC
Site Notes: RO1							
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
PDBtj	0-60	VFU		10yr3/4			
PDCox	60-300	FU		2.5y5/4			
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS14	10N/1983	4823800	403170		20	69 11/1/96	RC
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
PD	1-100						
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS15	10N/1983	4822540	402810		20	91 11/1/96	RC
Site Notes: Easternmost extent of Pleistocene dunes.							
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
PD	1-100						
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS16	10N/1983	4822420	402600		10	49 11/27/96	RC
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
LA	0-20	Silt					
PDBtj	20-110	VFL		10yr4/4			
PDCox	110-380	FU		2.5y6/3			
PU	380-420						
T	420-430	Mudstone					
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS17	10N/1983	4820420	402720		10	145 7/5/02	RC
		4820370	402635				
Site Notes: Site is on Radar Ridge (TL Sample at 350 cm depth RD1 W2775). RD1 is now referred to as RD1A (25 m north of RD1B).							
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
UA	0-15			10YR3/3		0.75	Very Weak B.
UBw	15-50						
LBw	50-102	Silt	Truncated	10YR3/4		2.5	Weak Blocky
PDBtj	102-180	FU		10YR3/2		4.5	Strong Blocky
PDCox	180-250	ML		10YR5/4		4.5	Strong Blocky
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS18	10N/1983	4820390	402710		10	145 12/10/96	RC
Site Notes: RD2 is now RD1B (25 m south of RD1A) includes complete topsoil sequence for RD1A TL date.							
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
LA	0-10	Silt				0.5	Loose
LBw	10-45	Silt		10yr3/3		2	Very Weak B.
PDBtj	45-85	VFL		10yr4/4		3.75	Weak Blocky
PDCox	85-145	FU		10yr6/8		2.5	
PDBg	145-155						
PDBtj	155-195						Very Weak B.
PDCox	195-350	FU		2.5y5/4			

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS19	10N/1983	4820000	403000		20	41	11/1/96 RC
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
T							

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS20	10N/1983	4819270	403380		20	46	2/3/02 RC
Site Notes: Road cut on west side of N. Hauser Slough, TL sample HS1 taken at 250 cm depth.							
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
LBw	0-45	Silt		10yr5/6 w10j		1.5	Very Weak B.
PDBtj	45-80	VFL		10yr6/6 w10j		3	Weak Blocky
PDBw	80-100	FU		10yr6/4		2.5	Very Weak B.
PDCox	100-160	ML		10yr6/3			
PDBg	160-185						
PDCox	185-340						

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS21	10N/1983	4818940	403300		20	7	11/1/96 RC
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
T							

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS22	10N/1983	4816060	402260		10	6	11/23/96 RC
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
PDBw	0-70	VFU		10yr4/4			
PDCox	70-180	ML		2.5y5/4			

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS23	10N/1983	4815250	401860		10	44	11/22/96
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
PDBtj	0-65	VFU		10yr4/3			
PDCox	65-205	FU		2.5y5/6			
PDBw	205-240	VFL		7.5yr3/4			
PDCox	240-310			2.5y5/4			

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS24	10N/1983	4815050	401470		10	54	11/25/96 RC
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
PDBtj	0-80	VFL		10yr4/4			
PDBw	80-100			10yr4/4			
PDCox	100-130	FU		2.5y5/4			

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS25	10N/1983	4814600	401200			33	11/1/96 RC
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
T							

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS26	10N/1983	4811770	401470		10	31	11/23/96 AU
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDCox	0-5	FU		2.5y5/4			
PDBw	5-60	FU		10yr4/4			
PDCox	60-140	FU		2.5y5/6			
PDBw	140-180	FU		10yr5/8			
PDCox	180-270	FU		2.5y5/4			

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS27	10N/1983	4811710	400860		10	27 11/23/96	RC
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
PDBw	0-20	FU		10yr3/4			
PDCox	20-200	FU		2.5y5/4			

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS28	10N/1983	4807240	399040		4	24 11/25/00	RC

Site Notes: Site is located 0.5 km west of airport, North Bend, in parking lot of utility office bldg.

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDA	0-10					0.5	
HDE	10-20					0.5 Loose	
HDBw	20-45			10yr3/6		3 Very Weak B.	
HDCox	45-205					Loose	
HDA	205-975						
HP	975-1005						
PDBw	1005-1650						
TBtj	1650-1700						
T							

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS29	10N/1983	4806560	398410		10	55 2/3/02	RC

Site Notes: TL sample VG1 taken 140 cm below nearby surface and 308 cm depth this profile.

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDA	0-1	FU				0 Loose	
HDCox	Jan-80	FU		10yr7/4		0.5 Loose	
HDA	80-85	FU				0.5 Loose	
HDBw	85-102	FU		10yr4/6		1.25 Loose	
HDCox	102-135	FU				1 Loose	
HDC	135-168	FU		2.5y5/4		1 Loose	
LBw	168-180	Silt				2.25 Very Weak B.	
PDBw	180-210	FU		10yr5/6		3 Very Weak B.	
PDCox	210-320	FU		2.5y5/4		2.75 Very Weak B.	

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS30	10N/1983	4806490	398490		10	59 12/12/96	RC

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
PDBw	0-30	FL		10yr5/4		cohesive	
PDCox	30-150	FL		2.5y5/4			

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS31	10N/1983	4806340	400830		10	39 2/3/02	AU

Site Notes: GO1A Napa Auto Parts (sample 300 cm depth) and GO1B (TL 560 cm depth).

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
LA	0-20	Silt				2 Very Weak B.	
PDBw	20-60	VFL		10yr5/6		3.5 Weak Blocky	
PDCox	60-120	FU				4 Very Weak B.	
PDC	120-340			7.5yr5/8			
PLA	330-360	Silt		2.5y5/4			
PDBtj	360-440	FU				4.5 Weak Blocky	
PDC	440-600						

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
COOS32	10N/1983	4804780	400600		20	30	RC

Units PD	Depth cm 1-100	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
Dune Sheet COOS33	Zone/NAD 10N/1983	UTM-N 4804700	UTM-E 400900	EPE (m)	Alt (m) 20	Date 49 11/1/96	Exposure RC
Units T	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
Dune Sheet COOS34	Zone/NAD 10N/1983	UTM-N 4804440	UTM-E 398000	EPE (m)	Alt (m) 20	Date 47 11/1/96	Exposure RC
Units PD	Depth cm 1-100	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
Dune Sheet COOS35	Zone/NAD 10N/1983	UTM-N 4804100	UTM-E 400000	EPE (m)	Alt (m) 20	Date 27 11/1/96	Exposure RC
Units PD	Depth cm 1-100	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
Dune Sheet COOS36	Zone/NAD 10N/1983	UTM-N 4804060	UTM-E 396250	EPE (m)	Alt (m) 10	Date 10 12/12/96	Exposure RC
Site Notes: EM1 Near Empire.							
Units PDA	Depth cm 0-5	Grain Size	Bedding	Color	P.kg/cm^2	Structure Loose	Diagenesis
PDBtj	5-50	VFU		10yr3/3		Strong Blocky	
PDBw	50-110	FU		10yr5/8		Very Weak B.	
PDCox	110-190	ML		2.5y5/4		Very Weak B.	
PDBw	190-230	ML		10yr4/3		Very Weak B.	
PDCox	230-250	FU		2.5y6/3		Very Weak B.	
Dune Sheet COOS37	Zone/NAD 10N/1983	UTM-N 4800020	UTM-E 396390	EPE (m)	Alt (m) 10	Date 91 7/5/02	Exposure RC
Site Notes: Joe Ney Rd (TL Sample JN1 at 200 cm depth north side of road and 300 cm depth this profile).							
Units LA	Depth cm 0-10	Grain Size Silt	Bedding	Color 10yr5/6	P.kg/cm^2	Structure 1 Very Weak B.	Diagenesis
LBw	10-70	Silt		10yr5/8		2 Weak Blocky	
PDBtj	70-120	VFU		5yr4/6		4 Columnar	
PDBg	120-150					3 Strong Blocky	
PDCox	150-300	FU		2.5y5/4		4.5 Strong Blocky	