

Coastal Pine Decline and Dieback

Chris Lee

Winter 2025



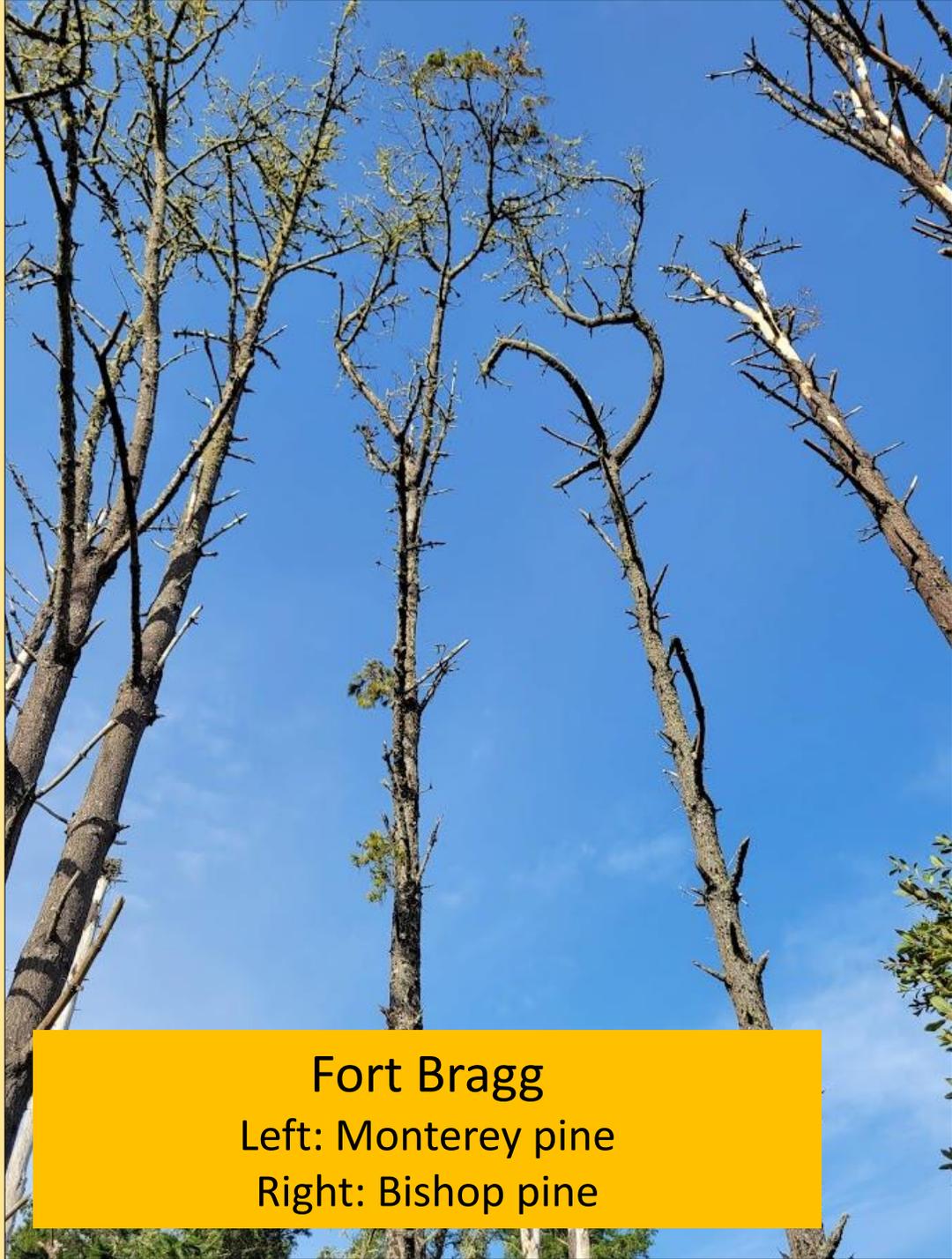
Salt Point State Park
Bishop pine

Gualala/Anchor Bay
Bishop pine

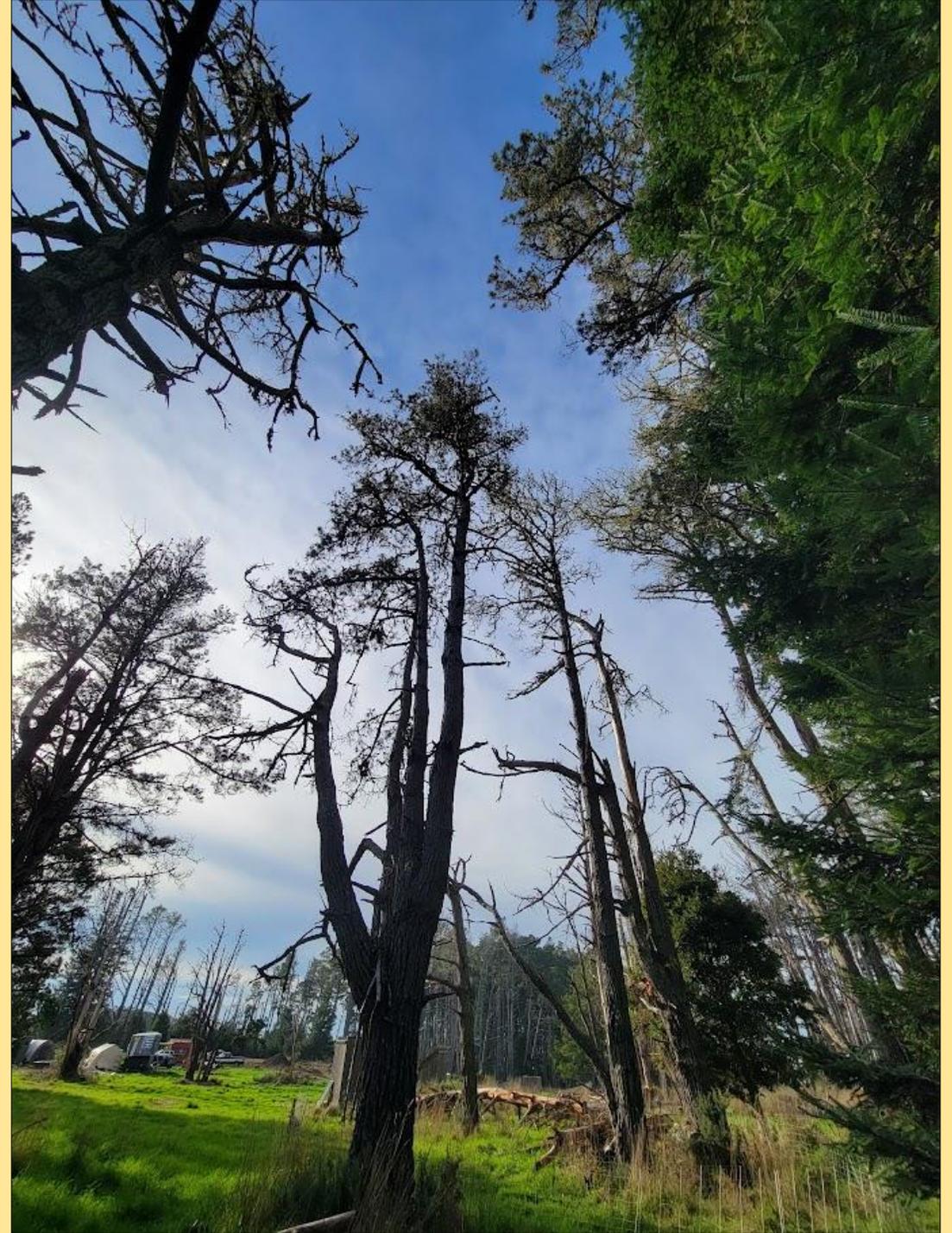


Point Arena
Monterey pine





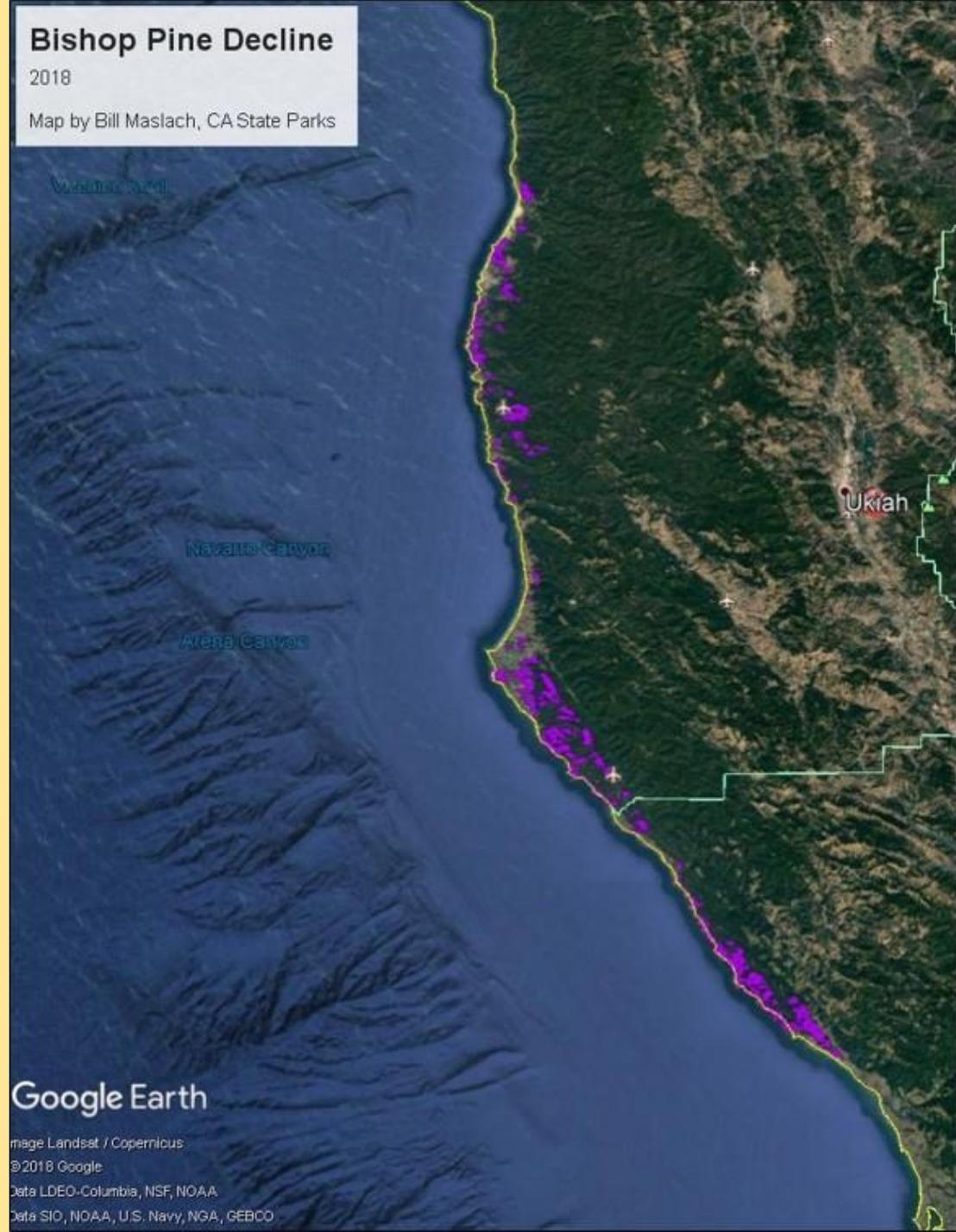
Fort Bragg
Left: Monterey pine
Right: Bishop pine



Bishop Pine Decline

2018

Map by Bill Maslach, CA State Parks



Google Earth

Image Landsat / Copernicus

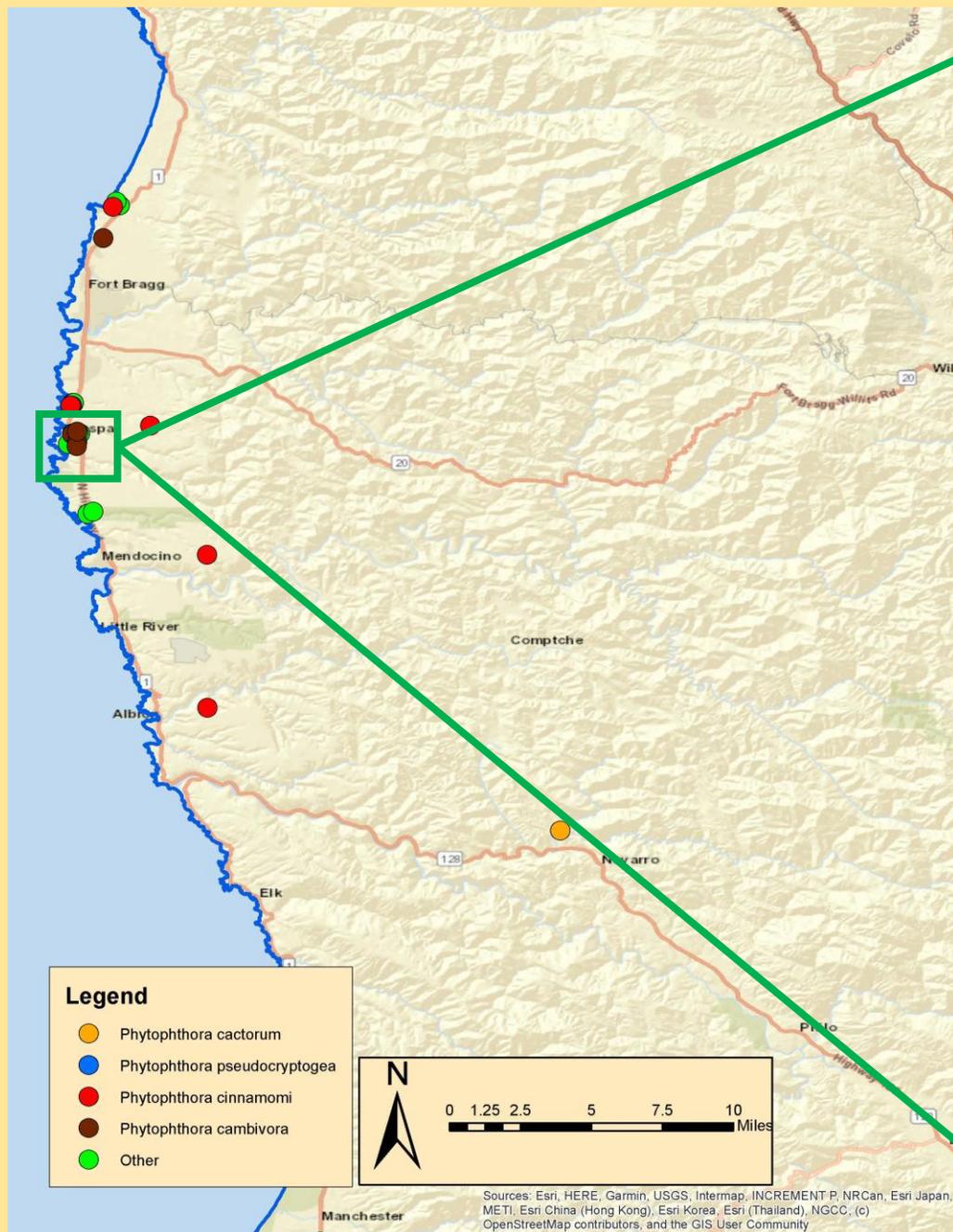
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Data LDEO-Columbia, NSF, NOAA

Data SIO, NOAA, U.S. Navy, NGA, GEBCO



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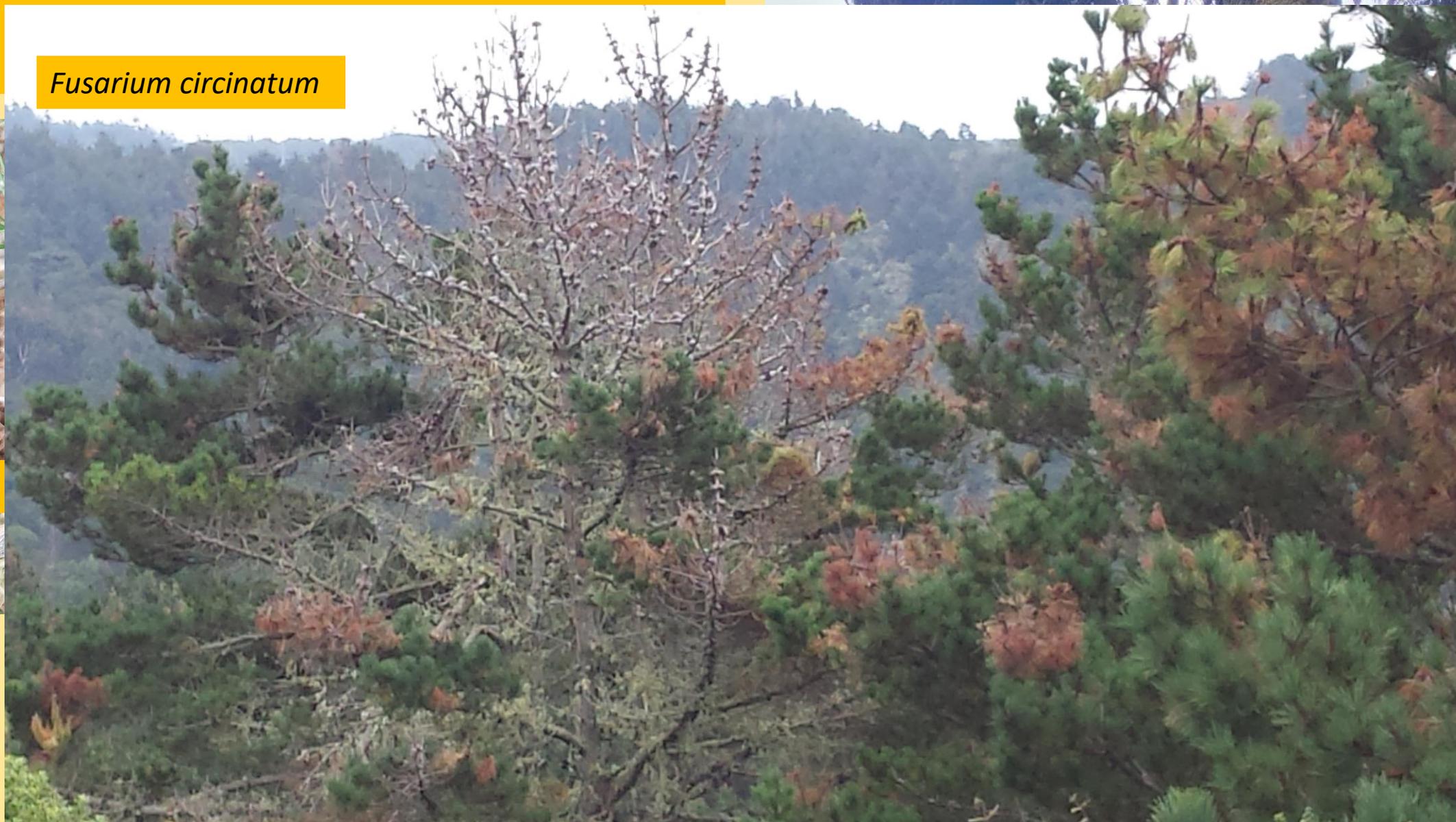






Fort Bragg
Shore pine

Fusarium circinatum



Pest scientific name	Common name / disease caused	Plant part affected
<i>Armillaria</i> sp.	Armillaria root disease	Large (structural) roots
<i>Phaeolus schweinitzii</i>	Schweinitzii root disease	Large (structural) roots
<i>Onnia subtriquetra</i>	Tomentosus root disease	Large (structural) roots
<i>Phytophthora cinnamomi</i>	Phytophthora dieback	Fine roots
<i>Phytophthora cambivora</i> , <i>P. pseudocryptogea</i>	Phytophthora dieback	Fine roots and root crown
<i>Elongisporangium</i> (= <i>Pythium</i>) <i>undulatum</i>	None	Fine roots
<i>Pythium dissotocum</i>	None	Fine roots
<i>Fusarium circinatum</i>	Pine pitch canker	Branches and stem
<i>Phomopsis/Diaporthe</i> sp.	Phomopsis canker	Branches and stem
<i>Diplodia scrobiculata</i>	Diplodia blight	Branches and stem
<i>Arceuthobium littorum</i>	Coastal dwarf mistletoe	Branches and stem
<i>Porodaedalia</i> (= <i>Phellinus</i>) <i>pini</i>	White pocket/heart rot	Stem
<i>Endocronartium harknessii</i>	Western gall rust	Branches and stem
<i>Dendroctonus valens</i>	Red turpentine beetle	Lower stem
<i>Ips plastographus</i>	Coastal pine engraver	Stem
<i>Pseudips mexicanus</i>	Monterey pine Ips	Stem
<i>Hylastes</i> sp.	bark beetle	Stem