

SUPPLEMENTARY MATERIAL I. A synonymy of *Cottus* in western North America and the representative specimens from this study nearest the type location.

Subgenus <sup>a</sup>	Name	Valid as	Source	Type location	Nearest specimen
Cottopsis	<i>Cottopsis gulosus</i>	<i>Cottus gulosus</i>	Girard 1854b	San Joaquin River, CA	7671: Merced River, CA
Cottopsis	<i>Cottopsis parvus</i>	<i>Cottus asper</i>	Girard 1854a	Presidio, San Francisco, CA	7673: Austin Creek, CA
Cottopsis	<i>Cottus aleuticus</i>	<i>Cottus aleuticus</i>	Gilbert 1896	Streams at Iliuliuk, Unalaska Island, AK	4267: Olsen Creek, WA
Cottopsis	<i>Cottus asper</i>	<i>Cottus asper</i>	Richardson 1836	Columbia River at Fort Vancouver, WA	4425: Burnt Bridge Creek, WA
Cottopsis	<i>Cottus asperrima</i>	<i>Cottus asperrimus</i>	Rutter 1908	Fall River at Dana, CA	7492: Fall River, CA
Cottopsis	<i>Cottus evermanni</i>	<i>Cottus princeps</i>	Gilbert 1898	Lost River near Lostine, OR	None
Cottopsis	<i>Cottus klamathensis</i>	<i>Cottus klamathensis klamathensis</i>	Gilbert 1898	Upper Klamath Lake, OR	297, 298, 8169: Upper Klamath Lake, OR
Cottopsis	<i>Cottus klamathensis polysporus</i>	<i>Cottus klamathensis polysporus</i>	Daniels & Moyle 198	Lower Klamath River, CA	None
Cottopsis	<i>Cottus macrops</i>	<i>Cottus klamathensis macrops</i>	Rutter 1908	Fall River at Dana, CA	None
Cottopsis	<i>Cottus perplexus</i>	<i>Cottus perplexus</i>	Gilbert & Evermann 1894	Skookumchuck River near Chehalis, WA	786: NF Newaukum River, WA
Cottopsis	<i>Cottus pitensis</i>	<i>Cottus pitensis</i>	Bailey & Bond 1963	NF Pit River near Alturas, CA	8144: Clear Creek, CA
Cottopsis	<i>Cottus princeps</i>	<i>Cottus princeps</i>	Gilbert 1898	Upper Klamath Lake, CA	299: Upper Klamath Lake, OR
Cottopsis	<i>Cottus protrusus</i>	<i>Cottus aleuticus</i>	Schultz & Spoor 1933	Unalaska Island, Alaska	None
Cottopsis	<i>Cottus shasta</i>	<i>Cottus gulosus</i>	Jordan 1896	McCloud River at Baird, CA	None
Cottopsis	<i>Trachidermis richardsonii</i>	<i>Cottus asper</i>	Heckel 1837	Columbia River at Fort Vancouver, WA	4425: Burnt Bridge Creek, WA
Cottopsis	<i>Uranidea marginata</i>	<i>Cottus marginatus</i>	Bean 1881	Tributaries of the Walla Walla River, WA (?)	599: Walla Walla River, WA
Cottopsis	<i>Uranidea microstoma</i>	<i>Cottus aleuticus</i>	Lockington 1880	St. Paul, Kodiak Island, AK	None
Cottopsis	<i>Uranidea semiscabra centroleura</i>	<i>Cottus gulosus</i>	Eigenmann & Eigenmann 1889	Allen Springs, Lake Co., CA	None
Cottopsis	<i>Uranidea tenuis</i>	<i>Cottus tenuis</i>	Evermann & Meek 1898	Lower end of Upper Klamath Lake, OR	296: Upper Klamath Lake, OR
Cottus	<i>Cottopsis ricei</i>	<i>Cottus ricei</i>	Nelson 1876	Lake Michigan near Evanston, IL	3733: North Saskatchewan River, AB
Cottus	<i>Cottus onychus</i>	<i>Cottus ricei</i>	Eigenmann & Eigenmann 1892	Bow River at Calgary, AB	3733: North Saskatchewan River, AB
Incertae sedis	<i>Cottus annae</i>	<i>Cottus beldingii</i>	Jordan 1896	Eagle River at Gypsum, CO	2306: Eagle River, CO
Incertae sedis	<i>Cottus beldingii</i>	<i>Cottus beldingii</i>	Eigenmann & Eigenmann 1891	Lake Tahoe and Donner Lake, CA	1313, 1314: Donner Creek, CA; 1302: Truckee River, CA
Incertae sedis	<i>Cottus confusus</i>	<i>Cottus confusus</i>	Bailey & Bond 1963	Salmon River at the base of Galena Summit, ID	7397, 7398: Salmon River, ID
Incertae sedis	<i>Cottus leiopomus</i>	<i>Cottus leiopomus</i>	Gilbert & Evermann 1894	Big Wood River, ID	691: Big Wood River, ID

## SUPPLEMENTARY MATERIAL I. continued.

Subgenus <sup>a</sup>	Name	Valid as	Source	Type location	Nearest specimen
Incertae sedis	<i>Cottus schitsuumsh</i>	<i>Cottus schitsuumsh</i>	LeMoine et al. 2014	EF Steamboat Creek, ID	7262: EF Steamboat Creek, ID
Incertae sedis	<i>Cottus tubulatus</i>	<i>Cottus beldingii</i>	Hubbs & Schultz 1932	Potlatch River near Bovill, ID	7308: Potlatch River, ID
Incertae sedis	<i>Uranidea greeniei</i>	<i>Cottus greeniei</i>	Jordan & Evermann 1898	Thousand Springs, tributary to Snake River downstream from the mouth of Salmon Falls Creek, ID	4993, 4995: Banbury Springs, ID
Uranidea	<i>Cottopsis semiscaber</i>	<i>Cottus bairdii semiscaber</i>	Cope 1872	Fort Hall, ID	3393, 7432, 7434: Gibson Jack Creek, ID
Uranidea	<i>Cottus bairdii</i>	<i>Cottus bairdii</i>	Girard 1850	Mahoning River, Portland, OH	7768: Allegheny River, PA
Uranidea	<i>Cottus chamberlaini</i>	<i>Cottus cognatus</i>	Evermann & Goldsborough 1907	Loring, Revillagigedo Island, AK	6987: Weary River, AK
Uranidea	<i>Cottus cognatus</i>	<i>Cottus cognatus</i>	Richardson 1836	Great Bear Lake, NT	2875: Prairie Creek, NT
Uranidea	<i>Cottus echinatus</i> <sup>b</sup>	<i>Cottus echinatus</i>	Bailey & Bond 1963	Utah Lake at the mouth of the Provo River, UT	4865: Soldier Creek, UT
Uranidea	<i>Cottus extensus</i>	<i>Cottus extensus</i>	Bailey & Bond 1963	Bear Lake near South Eden Delta, UT	7437: Bear Lake, UT
Uranidea	<i>Cottus hubbsi</i>	<i>Cottus hubbsi</i>	Bailey & Dimick 1949	Entiat River, WA	4843: Methow River, WA
Uranidea	<i>Cottus kaganowskii</i>	<i>Cottus cognatus</i>	Berg 1932	Belaya River, Siberia, Russia	6735: Andreafsky River, AK
Uranidea	<i>Cottus philonips</i>	<i>Cottus cognatus</i>	Eigenmann & Eigenmann 1892	Kickinghorse River near Field, BC	1799, 1800: Kickinghorse River, BC
Uranidea	<i>Potamocottus bendirei</i>	<i>Cottus bendirei</i>	Bean 1881	Rattlesnake Creek near Camp Harney, OR	561, 562, 567: Donner und Blitzen River, OR
Uranidea	<i>Potamocottus punctulatus</i>	<i>Cottus bairdii punctulatus</i>	Gill 1862	Green River basin, WY	1112: EF Savery Creek, WY
Uranidea	<i>Uranidea rhothea</i>	<i>Cottus rhotheus</i>	Smith 1882	Spokane River below the falls, Spokane, WA	7471: Spokane River, WA
Uranidea	<i>Uranidea wheeleri</i>	<i>Cottus bairdii</i>	Cope 1874	Beaver River, UT	1175, 1176: Sevier River, UT

<sup>a</sup>From Kinziger et al. (2005) and Goto et al. (2015).<sup>b</sup>Presumed extinct (Bailey & Bond 1963).

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