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## 青海早熟禾属(禾本科)新类群\*

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### New taxa of *Poa* (Gramineae) from Qinghai

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**Key words:** *Poa* Linn.; new taxa; Qinghai

#### 青海湖早熟禾

*Poa stenostachya* S. L. Lu et X. F. Lu, sp. nov. Fig. 1.

**Typus:** Qinghai (青海), Tianjun Xian (天峻县), the south of Sanjiaocheng (三角城) near Qinghai Lake (青海湖), between Hudong and Ganzihe (湖东种羊场至甘孜河之间), on marshy meadow, elevations about 3 250 m, 1999. 7. 25, Chen Gui-chen *et al.* (陈桂琛等) 2264A (HWN P).

Species a *Poa tibetica* R. Brown similis, sed planta robusta, vaginis fere ad basin clausis usque ad 18mm longis, ligulis 3~ 3.5 mm longis, panícula plus minusve laxa, angusta, glumis lanceolatis, prima gluma 3-nerva, lemma 5-nervo, dorsilater infra 3/4 partim costae, margine nervo et margine usque ad 2 mm longo lanato bene differt.

Herba perennis, rhizomatibus elongatis repentibus Culmi 15~ 65 cm alti, erecti,

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glabri, robusti, solitarii vel cum aliquot surculis compositi in caespitulis, basi usque ad 4 mm diam., in arcibus vaginis, plerumque 2-nodi, supremum internodium longitudine  $2/3 \sim 4/5$  partis plantae subaequans, ad basim 2 internodia plerumque non superans 10 cm longum; *vaginae* glabrae, sursum gradatim elongatae ad 14.5 cm longae, plerumque folio longiores, basi clausae ad 18 mm longae; *ligulae* 3~3.5 mm longae, ellipticae vel oblongae, vulgo laciniatae ad 4~6 lobos, margine minutae ciliatae extensae deorsum, dorsaliter glabrae vel setulosae vel scaberulae, ad vegetativa folia c. 0.5 mm longae, apice emarginatae vel obtusae. Laminae flaccidae, conplanatae, interdum conduplicatae falcatae sursum, lineares, vaginis subaequantes usque magnopere longiores, caulinae (1.4) 2.5~10 cm longae, vegetativae usque ad 35 cm longae, superne setulosae vel scabrae, inferne glabrae usque scaberulae. Panícula contracta, 3.5~13 cm longae, 1~1.5 (1.8) cm lata, inferiores plus minusque interrupta, superiores confertiores, glabra vel scaberula; ramibinati, usque ad 5.5 cm longae, ad basim vulgo secundis ramulis instructi; *spiculae* (4) 5~7 (9) mm longae, 3~6-florae, lanceolatae vel ovato-lanceolatae, purpureo-brunneae; *pedicelli* usque ad 4 mm longi, superiores setulosi vel scabri; *glumae* lanceolatae subaequales, apice acutae, margine membranaceae; *prima gluma* (sterile lemma) 3.2~4 mm longa, 3-nerva, corina usque ad apicem, lateralibus nervis inconspicuis, cel conspicuis, prope medium absentibus; *secunda gluma* (fertile lemma) 3.5~5 mm longa, interdum tenuis ciliata, 3-nerva, lateralibus nervis conspicuis, prope apicem absentibus; *lemma* 3.8~5 mm longum, lanceolatum, apice acutum, margine membranaceum, 5-nervum, venulis inconspicuis, dorsaliter secus nervos et marginem pilosum; *callus* obtusus, usque ad 2 mm longis pilis; *palea* 3~4 mm longa, lanceolata vel oblonga, dorsaliter secus nervos pilosa, 2-nerva, apice obtusa usque emarginata; *antherae* 2.5~3 mm longae, lineares, juventute flavida, maturitate purpureo-brunneae; *stigmata* 2, plumosa; *lodicae* 3, lati-lanceolatae vel ovatae, c. 0.8 mm longae, apice acutae. Caryopsis glabra, immatura.

Perennial, with long creeping rhizomes. Fibrous roots not sandy sheaths. Culms erect, 15~65 cm tall, glabrous robust, simplex or together with a little tillering shoots forming small tufts, usually 2-noded, the uppermost internode  $2/3 \sim 4/5$  as long as plant, the basal 2 internodes hardly exceeding 10 cm long together, base up to 4 mm diameter, with withered sheaths; *sheaths* glabrous upwards gradually elongated to 14.5 cm, usually longer than leaf blades, base closed up to 18 mm long; *ligules* 3~3.5 mm long, elliptic or oblong, mostly torn to 4~6 lobes, margin with the smallest seta, extended downward, back glabrous or roughish or setulose; at vegetative leaves c. 0.5 mm long, apice emarginate or obtuse. Blades weak, flattened, sometimes conduplicate and fal-

cate upwards, linear, somewhat equal to rather longer than sheaths, cauline blades (1.4) 2.5~10 cm long, vegetative blades up to 35 cm long, above setulose or rough, beneath glabrous to roughish. Panicle contracted, 3.5~13 cm long, 1~1.5 (1.8) cm broad, below more and less interrupted, the upper denser, glabrous or roughish; branches paired, up to 3.5 cm long, usually at each base having branchlets. Spikelets (4) 5~7 (9) mm long, 3~6-flowered, lanceolate or ovate lanceolate, purple brown; *pedicels* up to 4 mm long, the upper setulose or rough; *glumes* lanceolate, equal somewhat, apex acute, margin membranous; first glume 3.2~4 mm long, 3-nerved, the lateral veins distinct or indistinct, near the medium absent, midrib up to apex; second glume 3.5



图 1 青海湖早熟禾:

Fig 1 *Poa stenostachya* S. L. Lu et X. F. Lu

~5 mm long, sometimes thinly ciliate, 3-nerved, the lateral veins distinct, at 2/3~4/5 near apex absent; *lemma* 3.8~5 mm long, lanceolate, apex acute, margin membranous, 5-nerved, with indistinct small veins between main veins, at margin, lateral veins and midrib of back pilose; *callus* obtuse, with up to 2 mm long hairs; *palea* 3~4 mm long, lanceolate or oblong, back on veins pilose, 2-nerved, apex obtuse to emarginate; *anthers* 2.5~3 mm long, linear, the younger yellow, at flowering, becoming purple brown; *stigma* 2, feathery; *lodicules* 3, broadly lanceolate or ovate, c. 0.8 mm long, apex acute. Caryopsis glabrous, immature. Flowering July~August.

Habitations: Qinghai (青海): near Quanwan (泉湾) of Niadao (鸟岛) of Qinghai Lake (青海湖), on marshy meadow, elevations about 3200 m, July 23, 1999, Chen Guichen *et al.* (陈桂琛等) 2201 (HNW P); near Heimahe (黑马河) of Qinghai Lake (青海湖), on marshy meadow and near swamp, elevation about 3250 m, July 22, 1999, Chen Guichen *et al.* (陈桂琛等) 2154 (HNW P).

This species is very similar to *Poa tibetica*, but differs from plants more robust, sheaths closed to 18 mm long at base, ligules 3~ 3.5 mm long, panicles looser, narrower, glumes lanceolate, the first glume slightly shorter than the second one, 3-nerved, lemma 5 nerved, back under 3/4 of lemma at ridges, marginal veins and margin up to 2 mm long lanate, callus with up to 2 mm long lanate.

#### 沙生早熟禾

***Poa stenostachya*** S. L. Lu et X. F. Lu var. ***kokonorica*** S. L. Lu et X. F. Lu, var. nov.

**Typus:** Qinghai Province: near Quanwan of Qinghai Lake, on sandy marshy meadow, elevation about 3200 m, July 24, 1999, Chen Gui-chen *et al.* (陈桂琛等) 2207 (HNW P).

A var. *stenostachya*, planta vulgo 3-noda, nodis summis supra medium locatis, vaginis usque ad 19 cm longis, glumis cum lemmatibus margine inferiore ciliolatis, antheris ca. 2 mm longis, necnon habitat in sabulosa differt.

Habitations: Qinghai (青海): Tianjun Xian (天峻县), the south of Sanjiaocheng (三角城) near Qinghai Lake (青海湖) (between Hudong and Ganzhihe) (湖东种羊场至甘孜河之间), on sandy marshy meadow, elevation about 3250 m, July 25, 1999, Chen Gui-chen *et al.* (陈桂琛等) 2264b (HNW P); Maduo Xian (玛多县), Heihe Xiang (黑河乡), on sandy wet place, elevation about 4250 m, July 26, 1998, Chen Gui-chen *et al.* (陈桂琛等) 1809 (HNW P).

This variety is well distinguished from var. *stenostachya* by usually 3-noded, the uppermost nodes exceeding the medium, with up to 19 cm long sheaths, glumes and lemma ciliolate at the inferior margin, anthers about 2 mm long and lived in sand place.