

195. 短舌早熟禾 (禾本科图说)

Poa breviligula (Keng) L. Liu in Addenda. — *Poa sinattenuata* var. *breviligula* Keng, 中国主要植物图说·禾本科 189, 图 142. 1959, sine latin. descr.

多年生, 具短根状茎。秆丛生, 高 5—25 厘米, 近扁平, 具 1—2 节位于下部 1/3 处。叶鞘平滑无毛, 长于节间, 顶生者长 3—5 厘米, 短于其叶片; 叶舌干膜质, 带紫色, 长 0.5—1.2 毫米, 半圆形; 叶片扁平或对折, 长 4—7 厘米, 宽约 1 毫米, 上面微粗糙, 先端渐尖。圆锥花序甚狭窄, 长 5—8 厘米, 宽约 5 毫米, 分枝孪生, 直立或贴生, 粗糙, 基部主枝长 2—3 厘米, 下部裸露或侧枝自基部即生小穗; 小穗紫色, 长 4—5 毫米, 含 2—3 小花; 小穗轴具较密柔毛; 颖披针形, 先端渐尖, 具 3 脉, 脊上粗糙, 第一颖长 3.5—4 毫米, 第二颖长 4—4.5 毫米; 外稃长圆状披针形, 先端狭膜质, 间脉不太明显, 脊中部以下与边脉下部 1/3 具柔毛; 基盘具较多绵毛, 第一外稃长 3.8—4.2 毫米; 内稃较短于外稃且较狭窄, 两脊粗糙; 花药长约 1.5 毫米。花期 7—8 月。

产陕西。生于山坡草地。模式标本采自陕西太白山。

196. 阿洼早熟禾 (拟) 图版 19: 11

Poa araratica Trautv. in Acta Horti Petrop. 2: 486. 1873; Sult. et Stew., Grass. W. Pakist. 2: 192. 1959; Bor, Grass. Burma Ceyl. Ind. Pakist. 555. 1960. et Towns. et al. Fl. Iraq 9: 113. 1968. et Rech. f., Fl. Iran. 70: 42. 1970; Davis, Fl. Turkey 9: 482. 1985. — *Poa attenuata* Boiss., Fl. Or. 5: 608. 1884. non Trin. — *Poa versicolor* subsp. *araratica* (Trautv.) Tzvel. in Nov. Sist. Vyssh. Rast. 31. 1974. et Fed. Poac. URSS 473. 1976; T. A. Cope in Nasir Fl. Pakist. 143: 417. 1982.

多年生, 密丛型, 具根头或短根状茎。秆直立, 高 25—35 厘米, 带绿色。叶舌撕裂, 长 1.5—2.5 毫米; 叶片扁平, 后内卷或多少线形, 长 4—10 厘米, 宽 1—1.5 毫米, 边缘粗糙。圆锥花序狭窄, 长 4—9 厘米, 密聚或多少疏松; 分枝孪生, 粗糙, 上升, 弯曲; 小穗含 3—4 小花, 扇形, 长 4—6.5 毫米, 先端带紫色; 颖长圆形至椭圆形, 均具 3 脉, 第一颖长 3—3.8 毫米, 第二颖较宽, 长 3.2—4.5 毫米; 外稃长圆形至椭圆形, 先端钝或尖, 脊与边脉下部具柔毛; 基盘疏生绵毛, 第一外稃长 3.5—4.5 毫米; 内稃短于外稃, 两脊粗糙, 花药长 1.5—2 毫米。花期 7—8 月。染色体 $2n = 42$ (Sokol. Et Prov. 1971)。

产西藏、新疆 (若羌)。生于高山草原, 海拔 4300—5100 米。分布于克什米尔、阿富汗、伊朗、巴基斯坦、土耳其、高加索、欧洲。模式标本采自土耳其东北部。

197. 阿尔金山早熟禾 (西北植物学报)

Poa arjinsanensis D. F. Cui in Act. Bot. Bor. Occ. Sinica 7 (2): 87, 图 3. 1987; 新疆植物志 6: 88, 图版 32: 1—4. 1996.

nusve carinatae, striatae, glabrae vel ad os suum intus puberulae, internodiis breviores, basali laxa puberulaque, 4.5—7cm longa, superiore 17.5—20cm summa 16.5cm longa, lamina sua longiore; ligula scariosa, 1—2mm longa, rotundata, bipartita vel erosa; laminae firmae, erectae, complicato-involutae, circ. 10cm longae, 3mm latae, surculariae usque ad 35 cm longae, glabrae vel infra sparse puberulae, antice scaberulae et margine cartilagineae; panicula aperta, viridis, 12—20cm longa, 3—5cm lata, ramis 2—3-natis, ascendentibus, gracilioribus in axille pulvinatis, basalibus 7—8.5cm longis, in $1/3$ inferiore nudis, superne ramulos secundarios tertiariorumque pluri-spiculatos gerentibus, peticellis erectis vel ascendentibus, lateralibus 0.3—1mm et terminalibus circ. 2mm longis; spiculae 5—7 mm longae, in anthesin 4—6mm latae, 3—4-florae, secundum rhachem scabras potius dense imbricatae, rhachillae articulis circ. 1mm longis, gracilibus, levibus vel minute scaberulis; glumae acutae, prima 2—2.5mm longa, 1-nervi, secunda 2.8—3.3mm longa, 3-nervi, carina acaberula; lemmata omnino glabra vel callo vix lanuginoso, nervis 5 distinctis, carina scaberula, infra apicem scariosum leviter nigro-purpureo-colorata, lemmate primo 3.5—4mm longo; palea lemma acquans vel eo paulo brevior, carinis ciliolato-scaberulis; lodiculae circ. 8mm longae, 2-lobatae; antherae 2mm, longae; caryopsis immatura.

Sichuan: 21 VII 1940, K. L. Chu 7468 (Typus, JSBI).

***Poa breviligula* (Keng) L. Liu, sp. nov.**

Species poae sinattenuato Keng apparentia valde similis, sed a quo culmis infra paniculam fere levibus, vaginis foliorum summorum quam laminae suae brevioribus, ligulis circ. 0.5—1mm longis, et rhachillis inter flores pilosis recedit.

Perennis, rhizomatis brevioribus; radices fibrosae crassiores firminioresque; culmi caespitosi, 15—25cm alti, fere compressi, plerumque levcs, glabri, nodis 1—2in loco $1/3$ inferiore culmi sitis; vaginae fere leves glabraeque, internodiis longiores, summa 3.5—5cm longa, lamina sua brevior; ligula scariosa, purpureo-tincta, 0.5—1.2mm longa, semi-rotunda; laminae planae vel plicatae, acuminatae, 4—7cm, longae, circ. 1mm latae, infra levcs glabraeque, supra scaberulae; panicula angustissima, 5.5—8cm longa, circ. 5mm lata, ramis saepissime binis, erectis vel adpressis, scabris, basalibus 2—3cm longis, in $1/3$ — $1/2$ inferiore nudis, lateralibus e basi spiculatis; spiculae purpureae, 4—5mm longae, 2—3-florae, rhachilla puberula; glumae lanceolatae, acuminatae, 3-nerviae, carina scabra, 3.5—4.5mm longae, prima saepissime paulo brevior; lemmata oblongo-lanceolata, antice leviter membranacea, nervis intermediis leviter distinctis, medianis infra medium marginalibusque in $1/4$ vel $1/3$ inferiore longiuscule pilosis, callo moderatim lanuginoso, lemmate primo 3.8—4.2mm longo; palea lemmate angustior et brevior, carinis scabris; antherae circ.

1.5mm longae.

Shaanxi: Taipaishan, pashientai, 3 VIII 1938, T. N. Liu et P. C. Tsoong 2957 (Typus, JSBI).

***Poa chalarantha* Keng ex L. Liu, sp. nov.**

Affinis *P. shansiensi* Hitchc. quae ser. Arcticis ascribitur sed panicula latiore, ramis gracilioribus, horizontalibus vel pendulis et flosculo primo 4.5—5.5mm longo recedit.

Perennis, rhizomatis brevibus gracilibusque; radices fribrosae, crassiores longioresque; culmi laxe caespitosi, macilenti, lenes, leves glabrique, basi leviter procumbentes, 20—30cm alti, 0.8—1mm crassi, 1—2-nodes; vaginae tenuiores, leves glabraeque, summa 5—7cm longa, lamina sua longiore; ligula membranacea, truncata et dentata, circ. 0.3mm longa; laminae tenuiores, glabrae vel scaberulae, planae vel plicatae, 0.8—1mm crassi, 1—2-nodes; vaginae tenuiores, leves glabraeque, summa 5—7 cm longa, lamina sua longiore; ligula membranacea, truncata et dentata, circ. 0.3mm longa; laminae tenuiores, glabrae vel scaberulae, planae vel plicatae, 0.8—1mm latae, surculariae 6—15 cm et caulinae 2—6.5cm longae; panicula laxe aperta, pyramidata, 5.5—9cm longa, 5—8mm lata, ramis binis, horizontalibus vel pendulis. scaberulis vel fere levibus glabrisque, basalibus 4—5cm longis, in parte inferiore 2—3cm longa nudis, apicem versus 1—3 (4) -spiculatis; spiculae viridulae vel lilacinae, 5—8.5mm longae, 2—4 florum, rhachilla glabra; glumae tenues, acutae, apice margineque membranaceae, carina superne scaberula, prima 1-nervi, 3—4mm longa, secunda latiore, 1—3-nervi, 4—5mm longa; lemmata antice leviter membranacea, acuminata vel leviter obtusa, 5-raro obscure 6—7-nervia, carina superne scaberula, in 1/4 inferiore minutissime puberula, ad partem inter nervos pilis basin versus densius adpressi-puberula, callo sprace lanuginoso, lemmate primo 4.5—5.5 mm longo; palea lemma aequans vel eo paulo brevior, carinis scabris, antherae 2—3mm longae; caryopsis immatura.

Sichuan: Yulinkun, ad declivitatem saxosam umbrosam crescens, 1 IV 1940, K. L. Chu 7012 (Typus, JSBI).

***Poa declinata* Keng ex L. Liu, sp. nov.**

Affinis *Poa acroleuca* Steud. sed paleae carina scabra, non pilosa, et paniculae ramis flexuosis pendulisque statim distinguenda.

Perennis, radicibus fibrosis, tenuibus plueibusque; culmi laxe caespitosi, erecti vel basi leviter geniculati, circ. 60cm alti, circ. 1.5mm crassi, 4—5-nodes, leves glabrique; vaginae tenuiores, internodiis longiores, leves glabraeque, inferne clausae, summa 13—16 cm longa, lamina sua longiore; ligula truncata et erosa, 2—4mm longa; laminae teneriores, planae vel superiores interdum plicatae, infra leves glabraeque, supra ut in margine scaberulae, 5—8cm