## 38．ASPERUGO Linnaeus，Sp．Pl．1：138． 1753.

## 糙草属 cao cao shu

Herbs annual，climbing，hispid．Leaves alternate．Pedicel short or absent．Flowers solitary or fascicled at leaf axils．Calyx 5－ parted，2－dentate between lobes，strongly enlarged in fruit，bilaterally compressed，becoming somewhat clamshell－shaped，with distinct reticulate venation，irregularly emarginate－serrate；lobes unequal．Corolla violet or white，tubular；throat appendaged； limb 5－parted．Stamens included；filaments extremely short；anthers short oblong．Ovary 4－parted．Style included；stigma capitate．Gynobase subulate．Nutlets nearly flat，bilaterally compressed，densely white tuberculate，apex obtuse；attachment scar near apex adaxially．Seeds vertical；cotyledons ovate，complanate．

One species：Asia，Europe．

## 1．Asperugo procumbens Linnaeus， $\mathrm{Sp} . \mathrm{Pl}$ ．1：138． 1753.

## 糙草 cao cao

Stem slender，to 90 cm tall，hollow，with 5 or 6 longitudinal ribs，glochidiate along ribs，usually branched． Lower stem leaves petiolate，spatulate or narrowly oblong，5－ $8 \times 0.8-1.5 \mathrm{~cm}$ ，sparsely minutely hispid，margin entire or finely dentate；upper stem leaves sessile，becoming gradually smaller and subopposite．Pedicel short or absent． Calyx ca． 1.6 mm ，parted to below middle，minutely hispid； lobes somewhat unequal，linear－lanceolate，to 8 mm wide after anthesis．Corolla blue，ca． 2.5 mm ；tube longer than limb；throat appendages tuberclelike；lobes of limb somewhat unequal，broadly ovate to ovate．Anther ca． 0.6 mm ．Style ca． 0.8 mm ，included．Nutlets narrowly ovoid，ca． 3 mm ； attachment scar orbicular．Fl．and fr．Jul－Sep． $2 n=48$ ．

Hillside meadows，near villages，field margins；above 2000 m ． Gansu，Nei Mongol，Qinghai，N Shaanxi，Shanxi，Sichuan，Xinjiang， NE Xizang［N India，Kashmir，Kazakhstan，Kyrgyzstan，Mongolia， Nepal，Russia，Tajikistan，Turkmenistan，Uzbekistan；N and NW Africa，SW and W Asia，Europe］．

Flora of China 16: 417. 1995.

