ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	3049732
ToLID	**qdStyIlly1**
Species	Stygiiulus illyricus
Class	Diplopoda
Order	Julida

Genome Traits	Expected	Observed
Haploid size (bp)	526,119,689	549,733,997
Haploid Number	12 (source: ancestor)	13
Ploidy	2 (source: ancestor)	2
Sample Sex	NA	NA

EBP metrics summary and curation notes

Obtained EBP quality metric for pri: 6.7.Q52

The following metrics were automatically flagged as below EBP recommended standards or different from expected:

. Observed Haploid Number is different from Expected

. Not 90% of assembly in chromosomes for pri

Curator notes

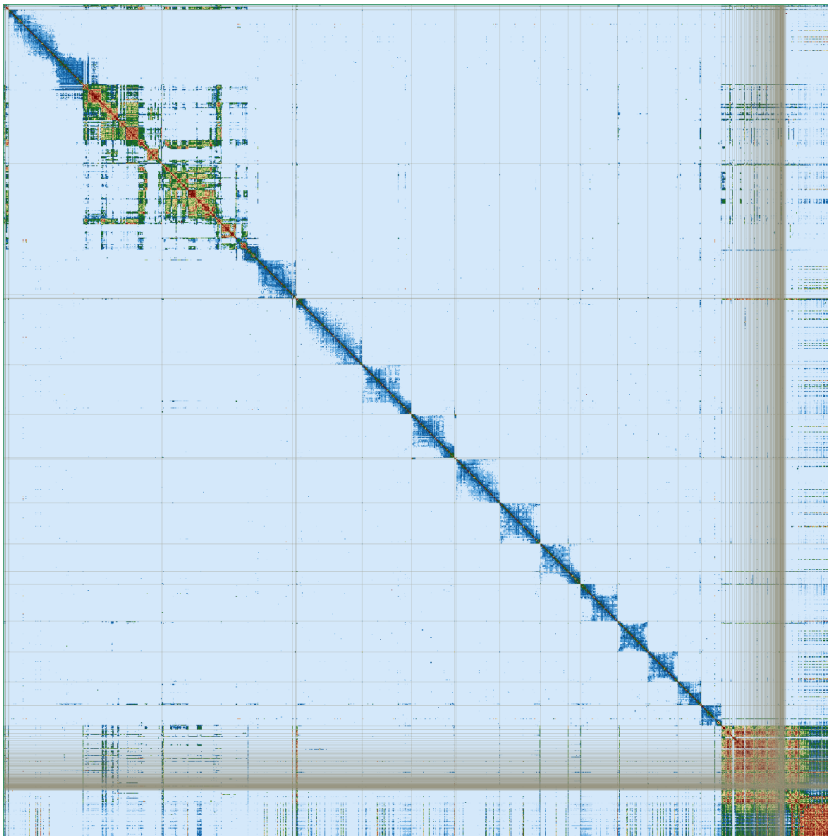. Interventions/Gb: None
. Contamination notes: ""
. Other observations: "Difficult to know if the first two scaffolds should be one or two chromosomes. Potentially the X and Y. Lots of repetitive sequences."

Quality metrics table

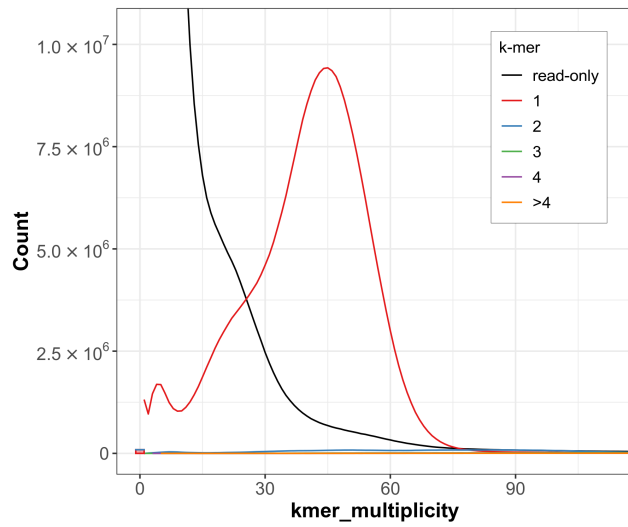| Metrics	Pre-curation pri	Curated pri
Total bp	550,780,026	549,733,997
GC %	37.49	37.48
Gaps/Gbp	490.21	491.15
Total gap bp	54,000	54,000
Scaffolds	1,682	1,680
Scaffold N50	29,700,184	29,024,683
Scaffold L50	5	5
Scaffold L90	36	34
Contigs	1,952	1,950
Contig N50	2,585,720	2,585,720
Contig L50	60	60
Contig L90	235	234
QV	48.5773	52.7783
Kmer compl.	94.9653	87.5237
BUSCO sing.	97.1%	
BUSCO dupl.	0.6%	
BUSCO frag.	0.9%	
BUSCO miss.	1.4%	

BUSCO: 6.0.0 (euk_genome_min, miniprot) / Lineage: arthropoda_odb12 (genomes:76, BUSCOs:1667)

HiC contact map of curated assembly

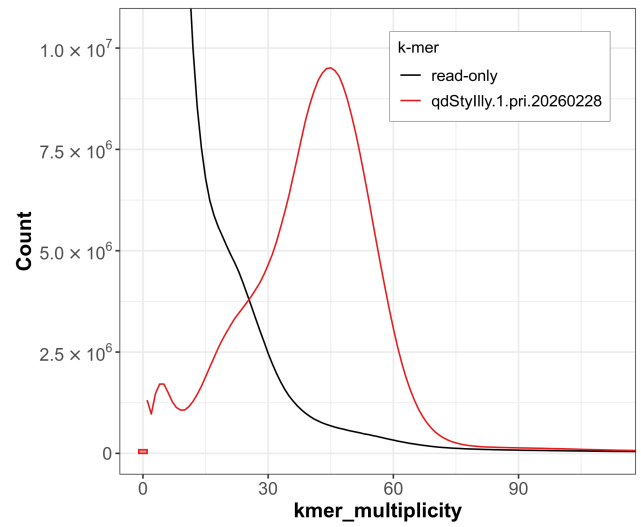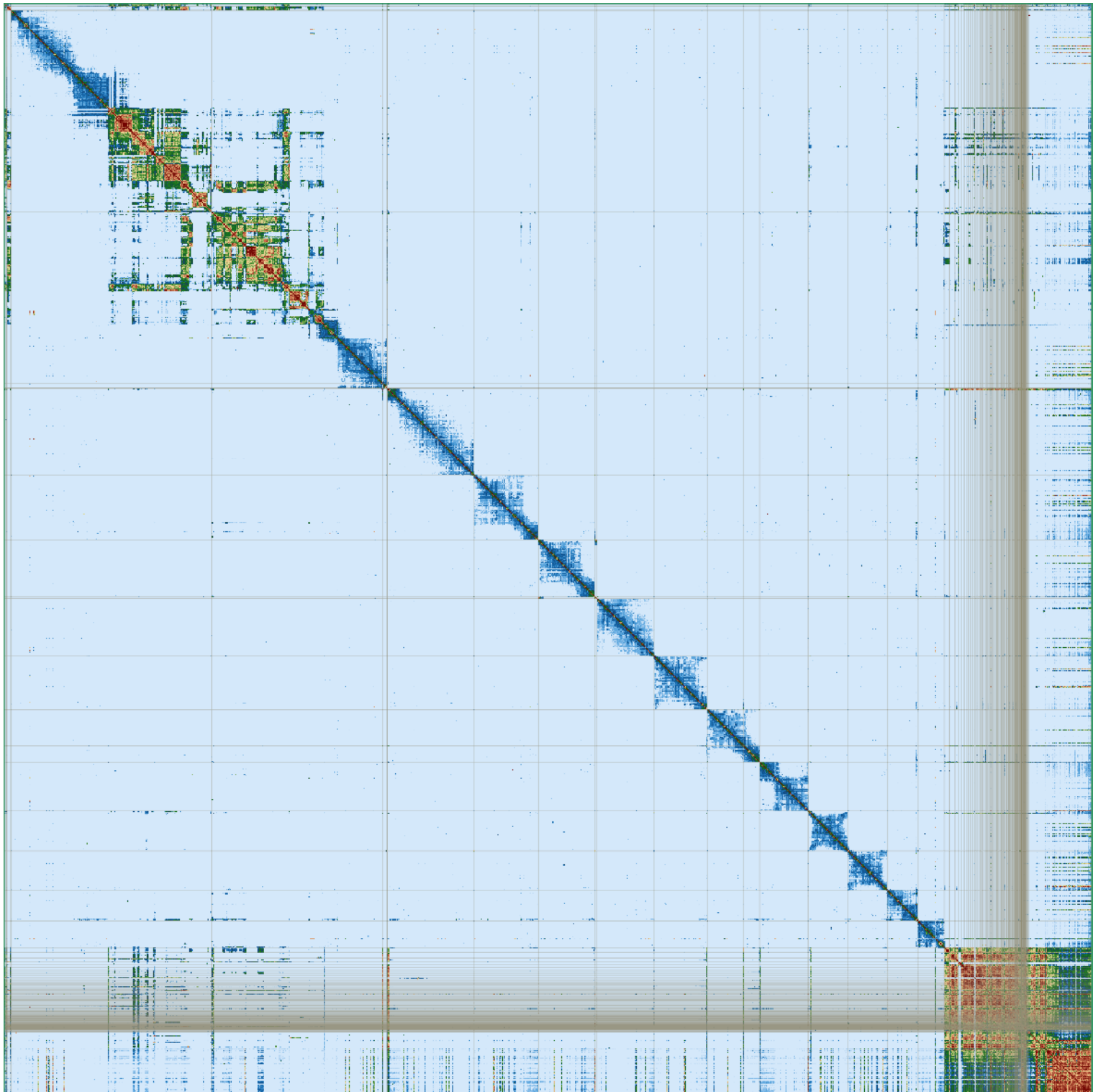**pri** [LINK]

K-mer spectra of curated assembly

Distribution of k-mer counts per copy numbers found in asm

Distribution of k-mer counts coloured by their presence in reads/assemblies

Post-curation contamination screening

pri. Bubble plot circles are scaled by sequence length, positioned by coverage and GC proportion, and coloured by taxonomy. Histograms show total assembly length distribution on each axis.

Data profile

Data	ONT	HiC
Coverage	NA	NA

Assembly pipeline

- **HiFiasm**
  - |_ *ver:* 0.25.0
  - |_ *key param:* NA
- **purge-dups**
  - |_ *ver:* 1.2.6
  - |_ *key param:* NA
- **yahs**
  - |_ *ver:* 1.1a
  - |_ *key param:* NA
- **fcs-gx**
  - |_ *ver:* 0.5.0
  - |_ *key param:* NA

Curation pipeline

- **PretextView**
  - |_ *ver:* 1.0.0
  - |_ *key param:* NA

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Date and time: 2026-03-01 06:09:30 CET