

Matrix Report (Sharkey et al)

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```
mt_data=parse_matrix(char_matrix, coding_states_report)
```

Report

N of chrs with inapplicable states

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```
mt_data$contains_inapplicable %>% length
```

```
[1] 278
```

N of chrs with missing states

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```
mt_data$contains_missing %>% length
```

```
[1] 392
```

Chrs with polymorphic states

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```
mt_data$contains_polymorph
```

```
[1] "CHAR:17" "CHAR:342" "CHAR:351" "CHAR:352" "CHAR:357" "CHAR:359" "CHAR:374" "CHAR:378" "CHAR:390"
```

Chrs with unused states

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```
mt_data$unused_chr_states
```

```

$unused_matrix
$unused_matrix$`CHAR:24`
[1] "STATE:5"

$unused_matrix$`CHAR:36`
[1] "STATE:1"

$unused_matrix$`CHAR:37`
[1] "STATE:3"

$unused_matrix$`CHAR:49`
[1] "STATE:5"

$unused_matrix$`CHAR:356`
[1] "STATE:3"

$unused_matrix$`CHAR:367`
[1] "STATE:4" "STATE:5"

$unused_matrix$`CHAR:380`
[1] "STATE:1"

$unused_chrs_report
$unused_chrs_report$`CHAR:57`
[1] "STATE:4" "STATE:5"

$unused_chrs_report$`CHAR:60`
[1] "STATE:3"

$unused_chrs_report$`CHAR:61`
[1] "STATE:5" "STATE:6" "STATE:7"

```

Groups of characters with the same sequeunce pattern

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```
mt_data$same_chrs_patterns
```

```

[[1]]
[1] "CHAR:23" "CHAR:67"

[[2]]
[1] "CHAR:152" "CHAR:194"

[[3]]
[1] "CHAR:198" "CHAR:228"

[[4]]
[1] "CHAR:281" "CHAR:291" "CHAR:317" "CHAR:339"

[[5]]
[1] "CHAR:377" "CHAR:379"

[[6]]
[1] "CHAR:383" "CHAR:385" "CHAR:386" "CHAR:388"

```

Number of missing states “?” per taxon

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```
cbind(names(mt_data$taxa_missing_states), unname(mt_data$taxa_missing_states))
```

	[,1]	[,2]
[1,]	"Atomacera"	"389"
[2,]	"Derecyrtia"	"389"
[3,]	"Paramblynotus"	"373"
[4,]	"Sirex"	"349"
[5,]	"Australomymar"	"348"
[6,]	"Cephalcia"	"346"
[7,]	"Psilocharis"	"346"
[8,]	"Corynis"	"343"
[9,]	"Decameria"	"343"
[10,]	"Hartigia"	"343"
[11,]	"Runaria"	"343"
[12,]	"Sterictiphora"	"343"
[13,]	"Tenthredo"	"343"
[14,]	"Austronia"	"341"
[15,]	"Peradenia"	"341"
[16,]	"Chiloe"	"329"
[17,]	"Foersterella"	"328"
[18,]	"Coccobius"	"296"
[19,]	"Xyela"	"296"
[20,]	"Micropterix"	"99"
[21,]	"Chrysopa"	"98"
[22,]	"Panorpa"	"98"
[23,]	"Urocerus"	"98"
[24,]	"Dinapsis"	"97"
[25,]	"Spalangia"	"97"
[26,]	"Urosigalphus"	"97"
[27,]	"Ycaploca"	"96"
[28,]	"Orgilus"	"79"
[29,]	"Telenomus"	"78"
[30,]	"Plumarius"	"75"
[31,]	"Sparasion"	"67"
[32,]	"Ismarus"	"61"
[33,]	"Notofenusia"	"50"
[34,]	"Ceraphron"	"47"
[35,]	"Pimpla"	"47"
[36,]	"Brachygaster"	"46"
[37,]	"Evaniella"	"46"
[38,]	"Isostasius"	"46"
[39,]	"Phaenoserphus"	"46"
[40,]	"Rhopalosoma"	"46"
[41,]	"Orussobaius"	"37"
[42,]	"Heteroperreyia"	"36"
[43,]	"Mymaromma"	"23"
[44,]	"Lagynodes"	"22"
[45,]	"Austroserphus"	"15"
[46,]	"Megischus"	"15"
[47,]	"Macroxyela"	"7"
[48,]	"Cales"	"5"
[49,]	"Monoctenus"	"5"
[50,]	"Tremex"	"5"
[51,]	"Athalia"	"4"
[52,]	"Cirrospilus"	"3"
[53,]	"Gonatocerus"	"3"
[54,]	"Aulacus"	"2"
[55,]	"Coccophagus"	"2"
[56,]	"Maaminga"	"2"
[57,]	"Metapolybia"	"2"
[58,]	"Syntexis"	"2"
[59,]	"Acanthochalcis"	"1"
[60,]	"Aleiodes"	"1"
[61,]	"Cephalonomia"	"1"
[62,]	"Cephus"	"1"
[63,]	"Cleonymus"	"1"
[64,]	"Diplolepis"	"1"
[65,]	"Doryctes"	"1"
[66,]	"Dusona"	"1"

[67,]	"Eurytoma"	"1"
[68,]	"Gasteruption"	"1"
[69,]	"Helorus"	"1"
[70,]	"Labena"	"1"
[71,]	"Lymeon"	"1"
[72,]	"Megaspilus"	"1"
[73,]	"Megastigmus"	"1"
[74,]	"Nasonia"	"1"
[75,]	"Onycholyda"	"1"
[76,]	"Orussus"	"1"
[77,]	"Parnips"	"1"
[78,]	"Periclistus"	"1"
[79,]	"Pristaulacus"	"1"
[80,]	"Proplatygaster"	"1"
[81,]	"Pseudofoenus"	"1"
[82,]	"Rhysipolis"	"1"
[83,]	"Sapyga"	"1"
[84,]	"Schlettererius"	"1"
[85,]	"Vanhornia"	"1"
[86,]	"Wroughtonia"	"1"
[87,]	"Xiphydria"	"1"
[88,]	"Zagryphus"	"1"
[89,]	"Anacharis"	"0"
[90,]	"Archaeoteleia"	"0"
[91,]	"Belyta"	"0"
[92,]	"Evania"	"0"
[93,]	"Ibalia"	"0"
[94,]	"Megalyra"	"0"
[95,]	"Melanips"	"0"
[96,]	"Monomachus"	"0"
[97,]	"Orthogonalys"	"0"
[98,]	"Pantolytomyia"	"0"
[99,]	"Pelecinus"	"0"
[100,]	"Pison"	"0"
[101,]	"Poecilopsilus"	"0"
[102,]	"Proctotrupes"	"0"
[103,]	"Ropronia"	"0"
[104,]	"Stangeella"	"0"
[105,]	"Taeniogonalos"	"0"