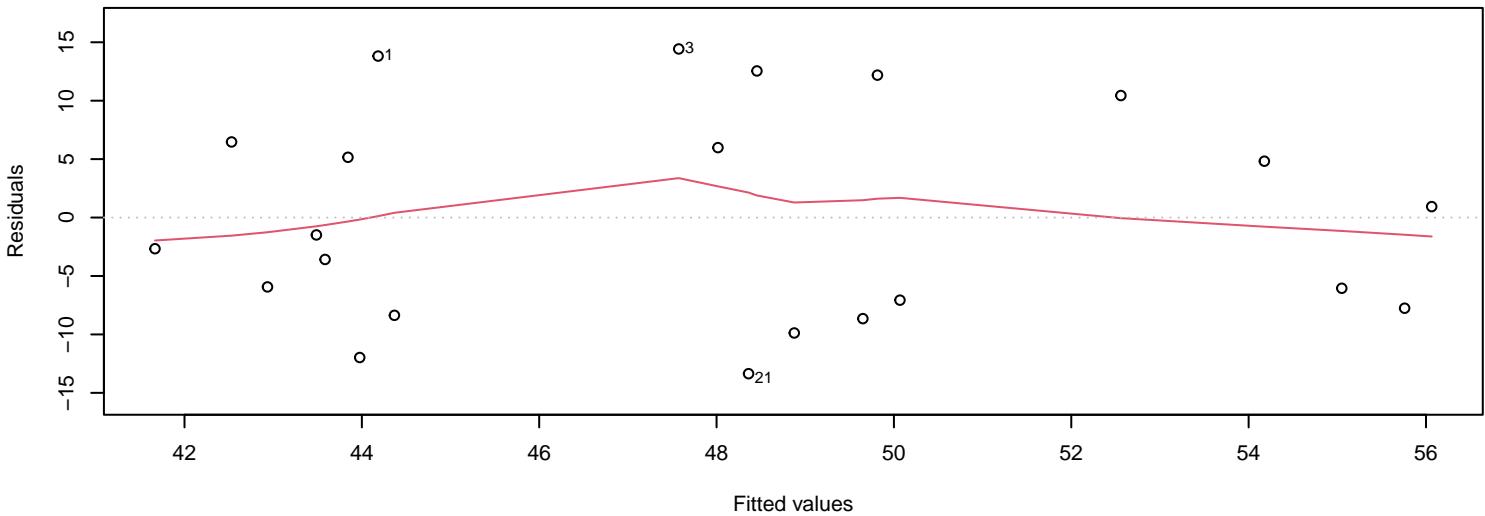
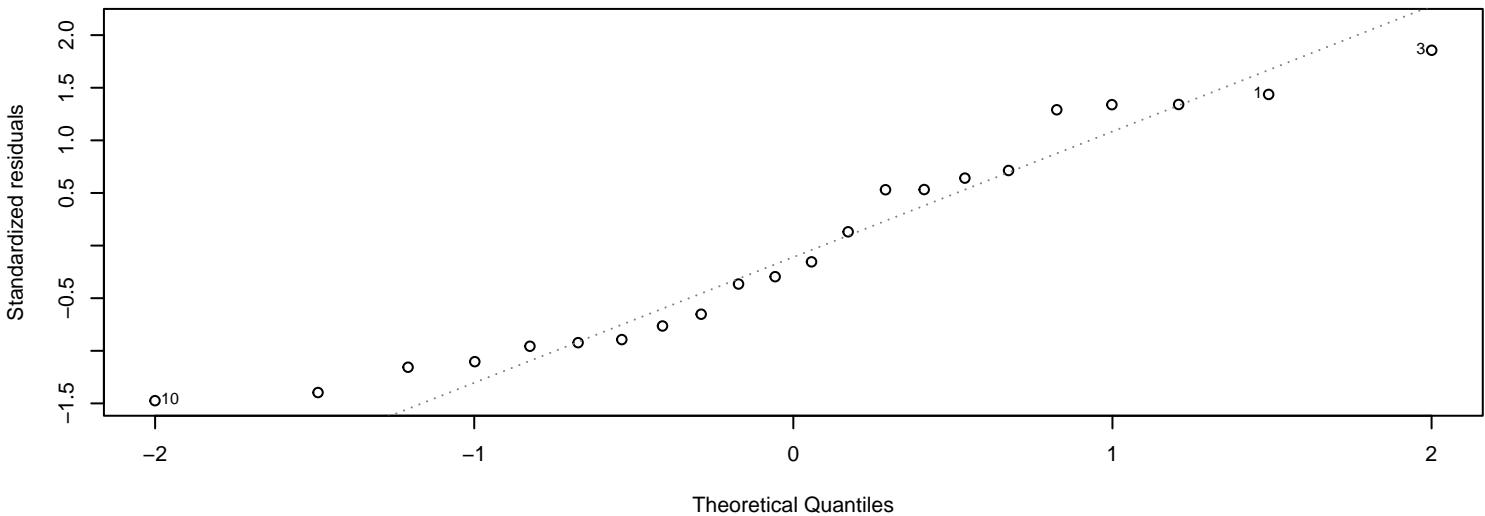


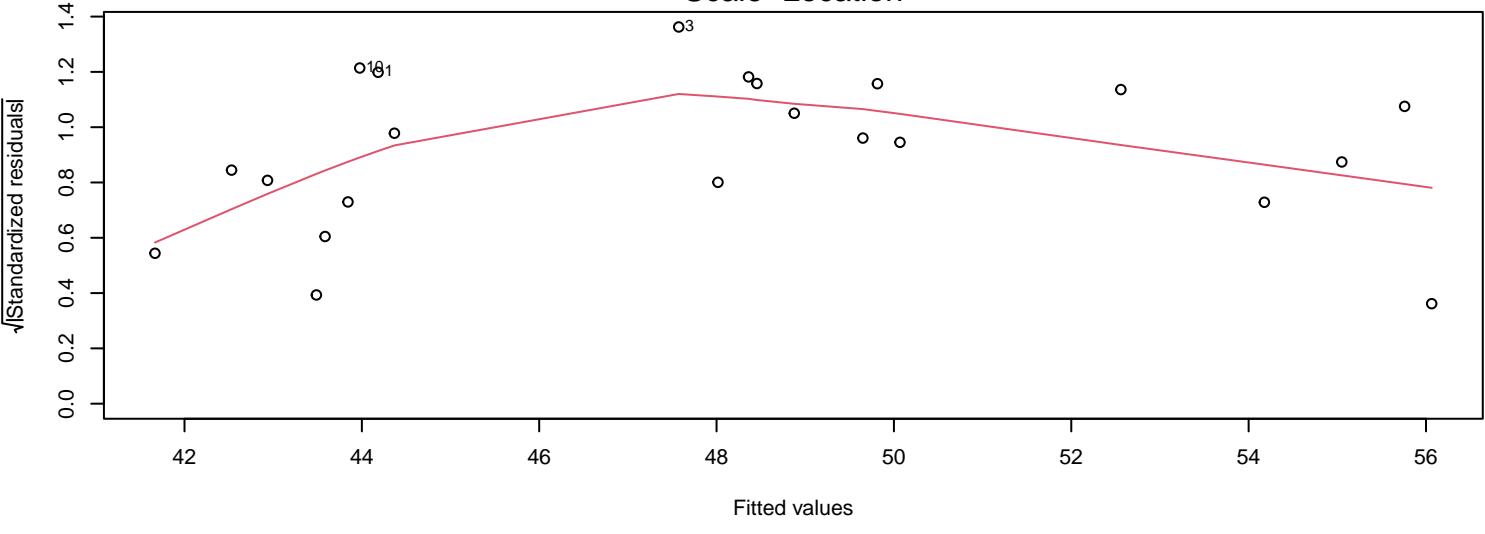
**Residuals vs Fitted: fss\_sum ~ mip\_pre\_max**  
Residuals vs Fitted



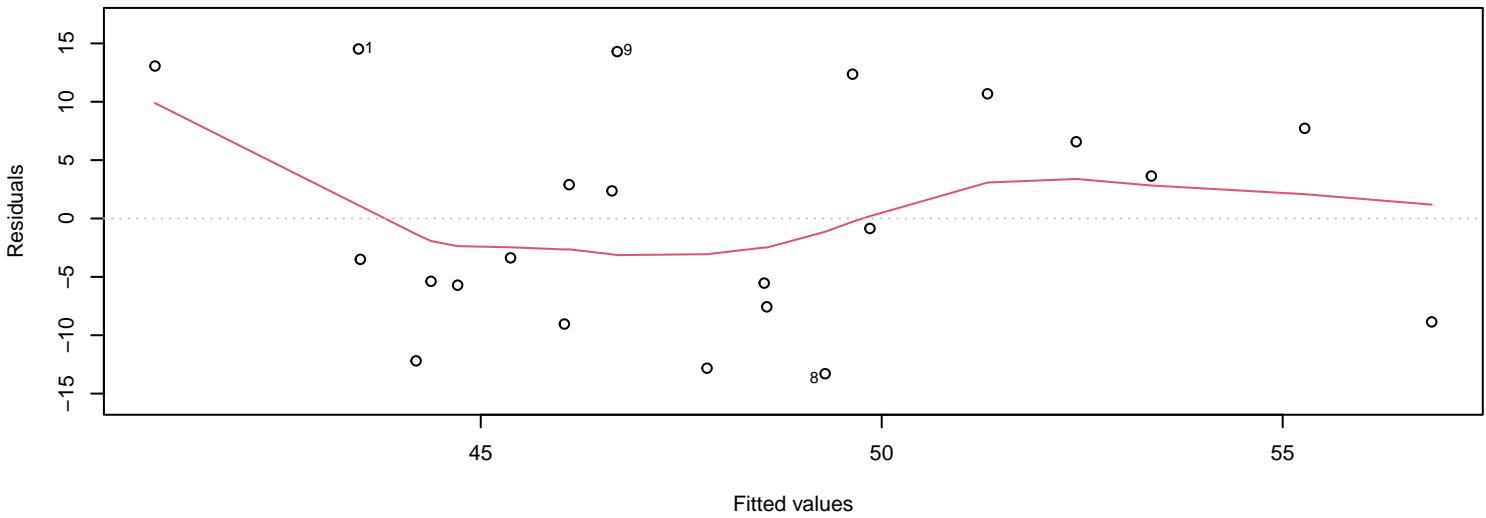
**Normal Q-Q: fss\_sum ~ mip\_pre\_max**  
Q-Q Residuals



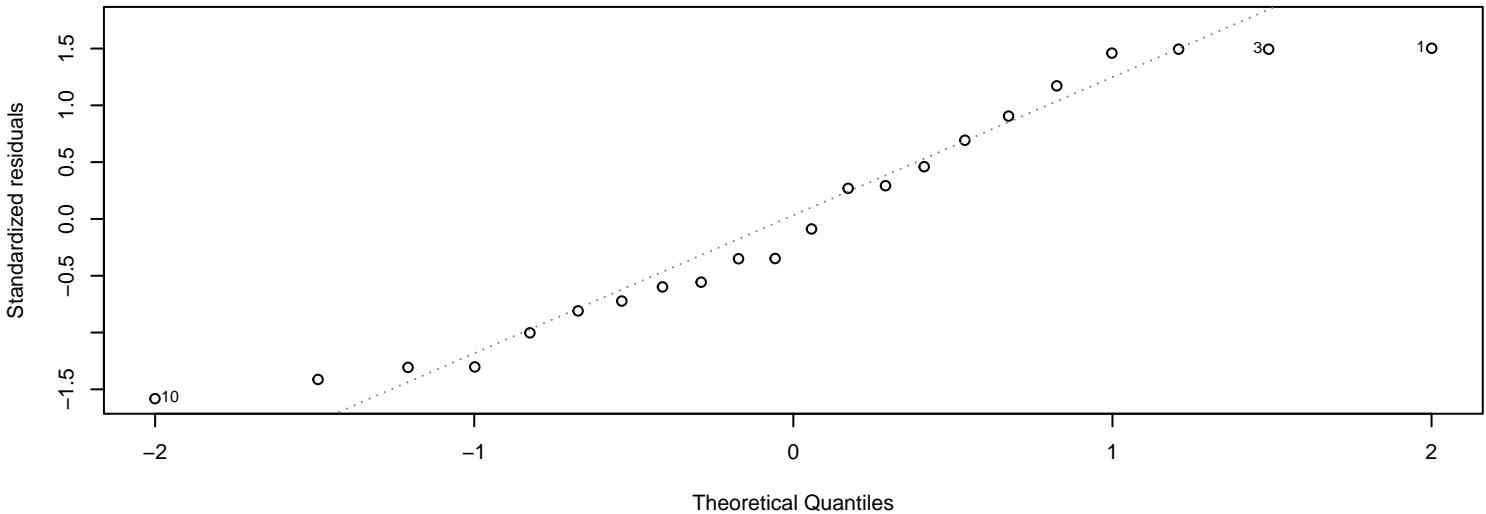
**Scale-Location: fss\_sum ~ mip\_pre\_max**  
Scale-Location



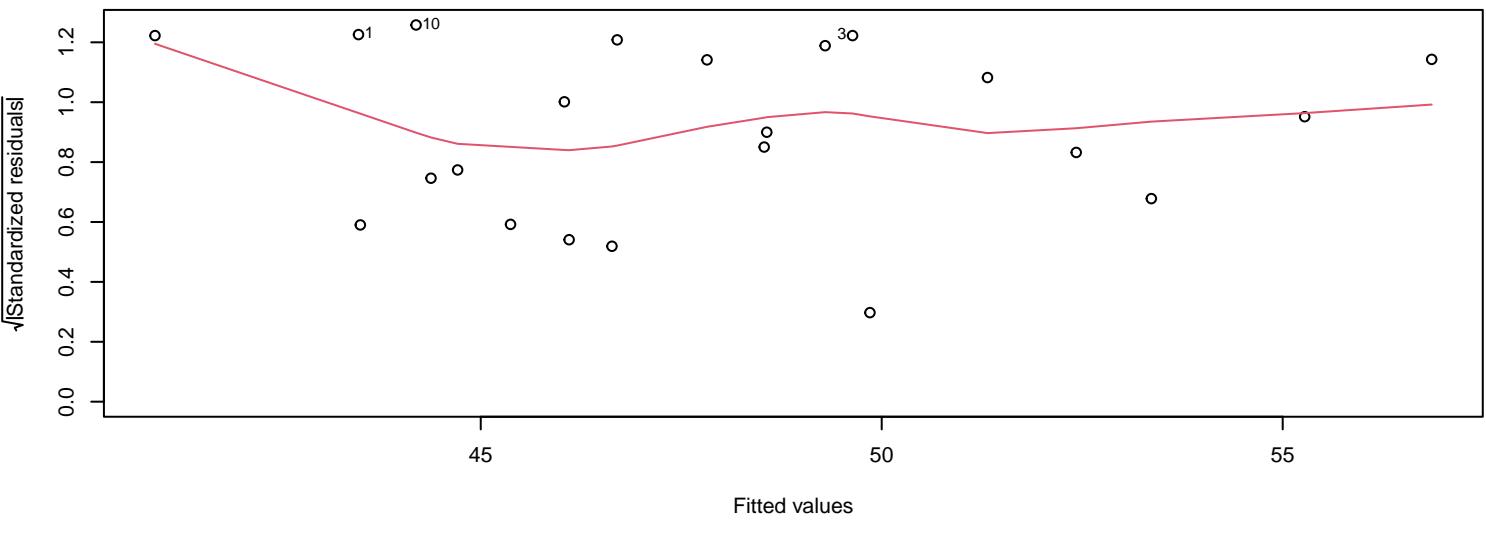
**Residuals vs Fitted: fss\_sum ~ smip\_pre\_max**  
Residuals vs Fitted



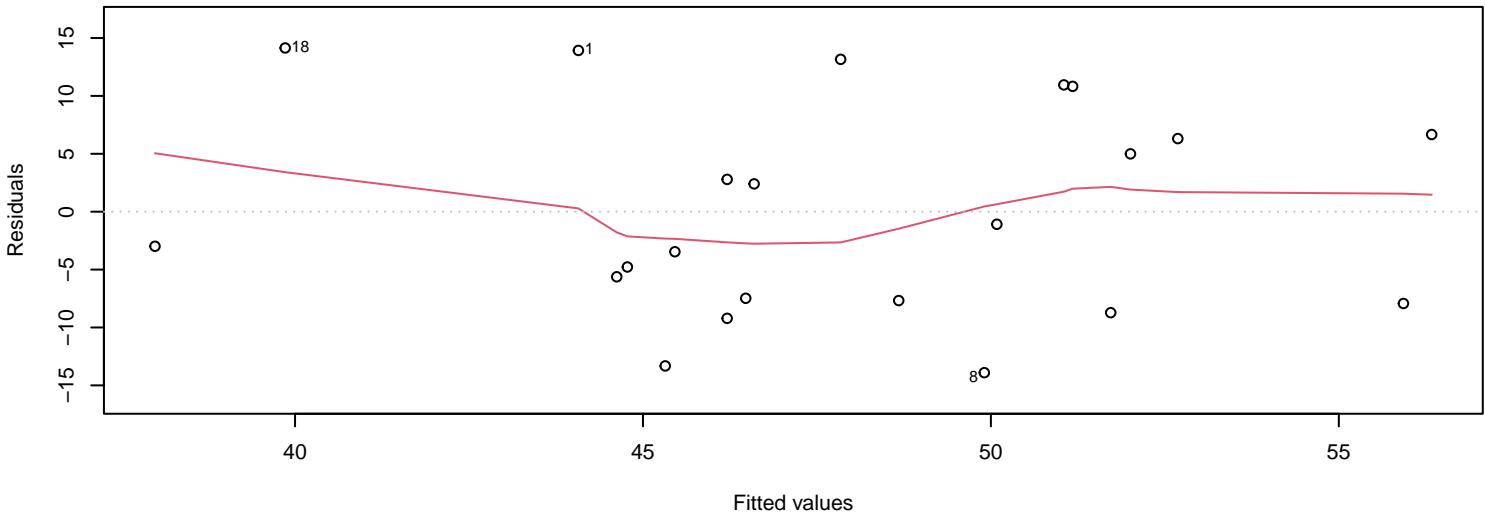
**Normal Q–Q: fss\_sum ~ smip\_pre\_max**  
Q–Q Residuals



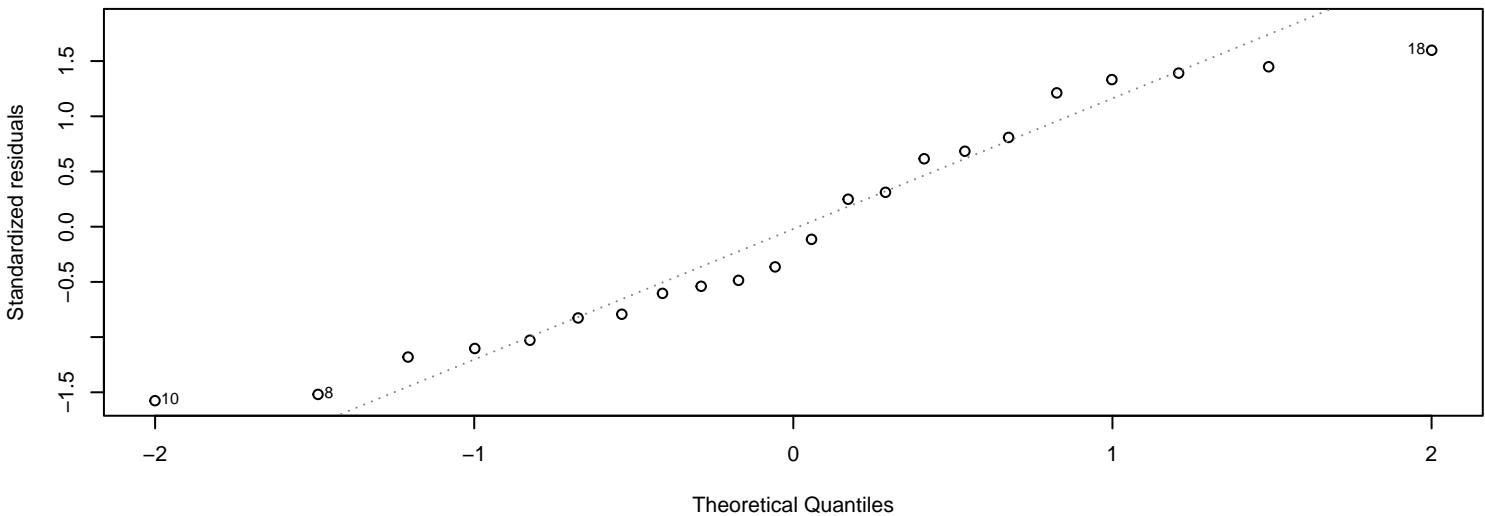
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Scale–Location



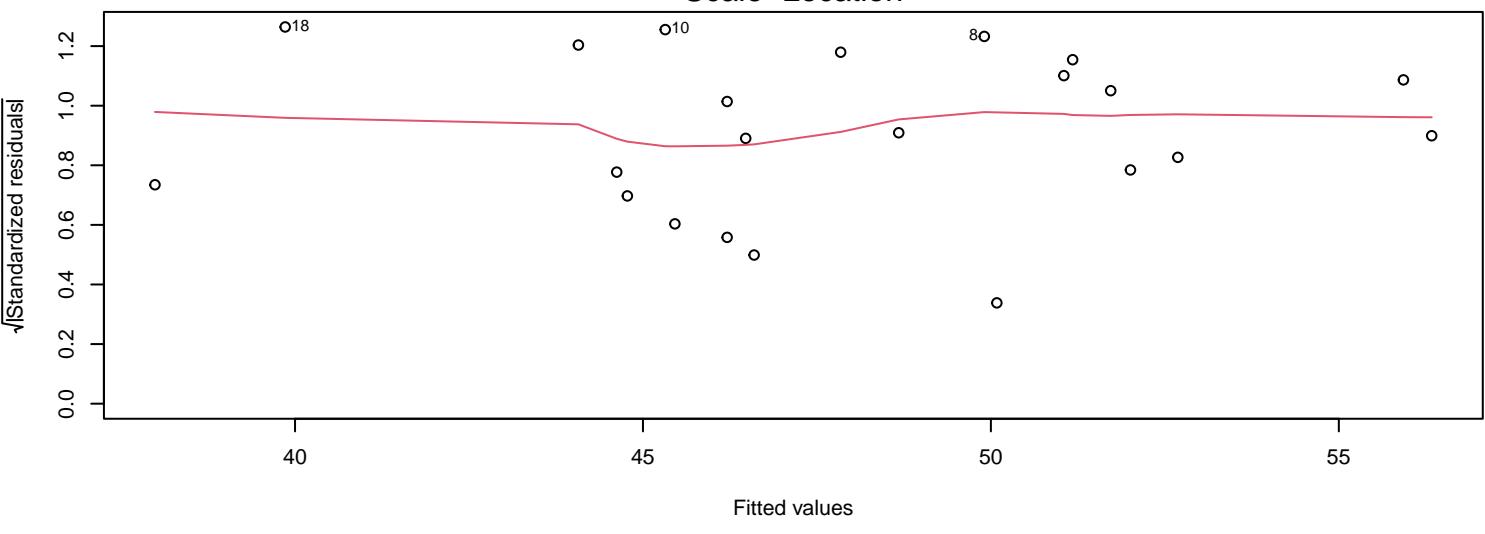
Residuals vs Fitted: fss\_sum ~ fit\_pre\_max  
Residuals vs Fitted



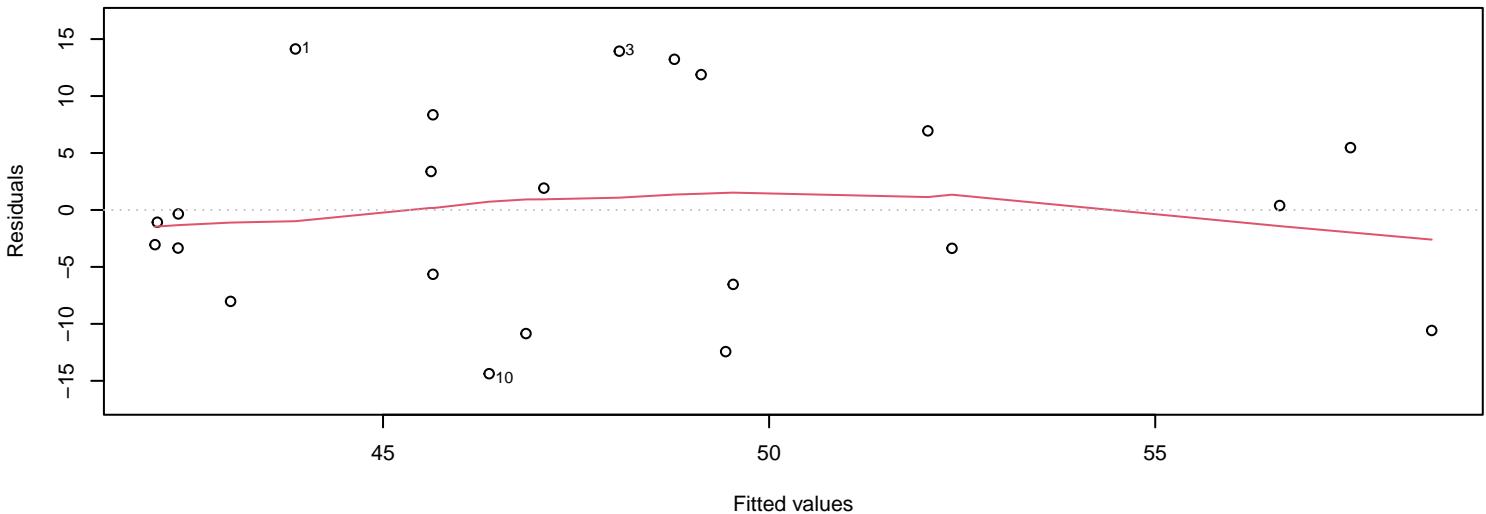
Normal Q-Q: fss\_sum ~ fit\_pre\_max  
Q-Q Residuals



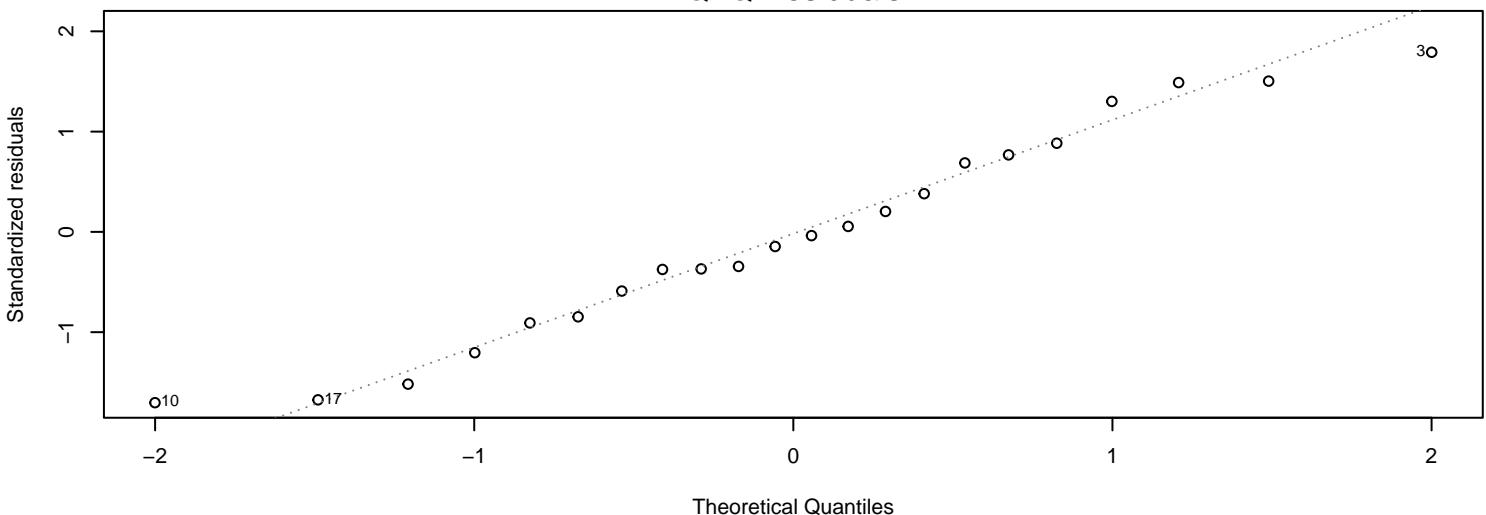
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Scale-Location



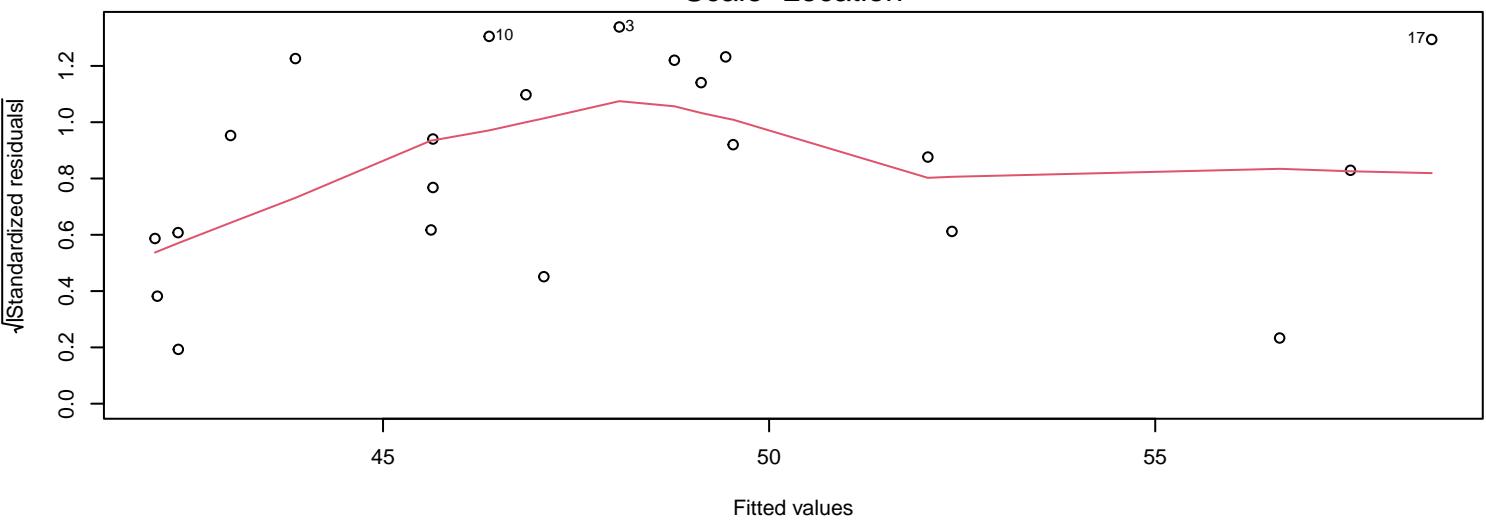
Residuals vs Fitted: fss\_sum ~ pif\_pre\_max  
Residuals vs Fitted



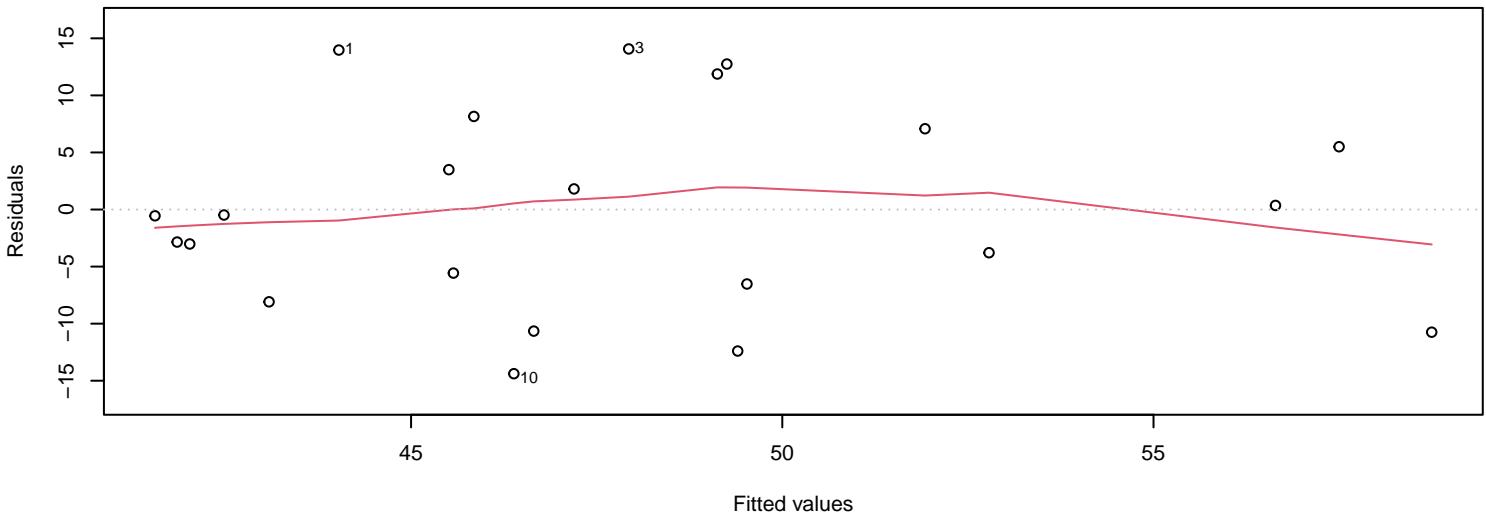
Normal Q-Q: fss\_sum ~ pif\_pre\_max  
Q-Q Residuals



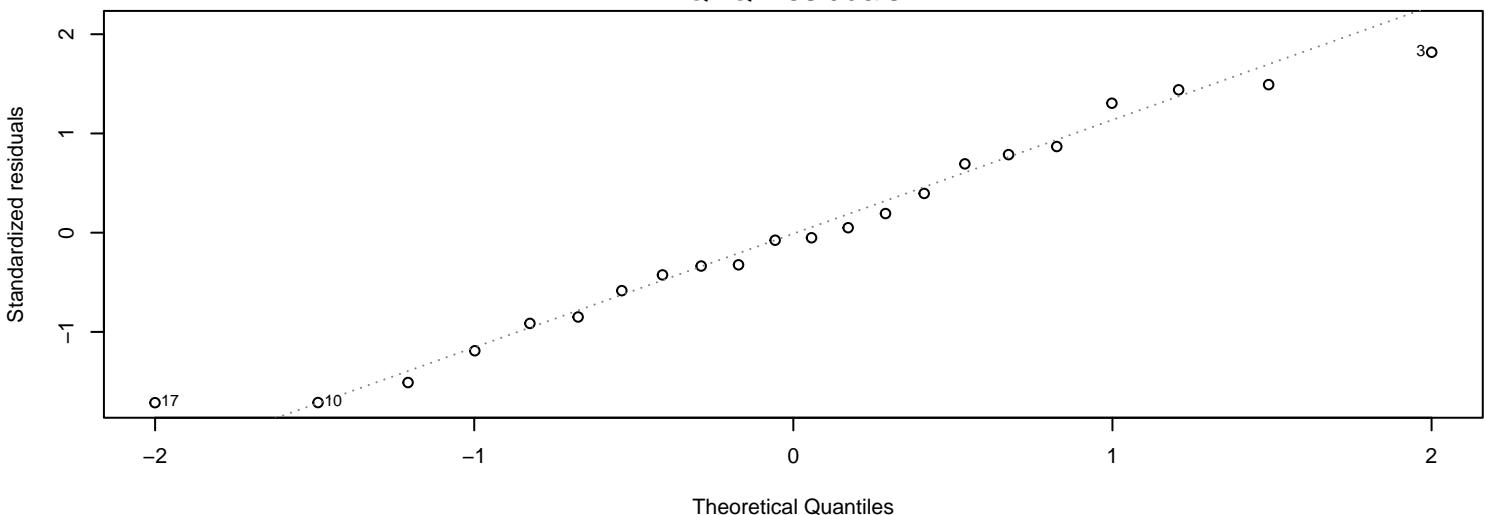
Scale–Location: fss\_sum ~ pif\_pre\_max  
Scale–Location



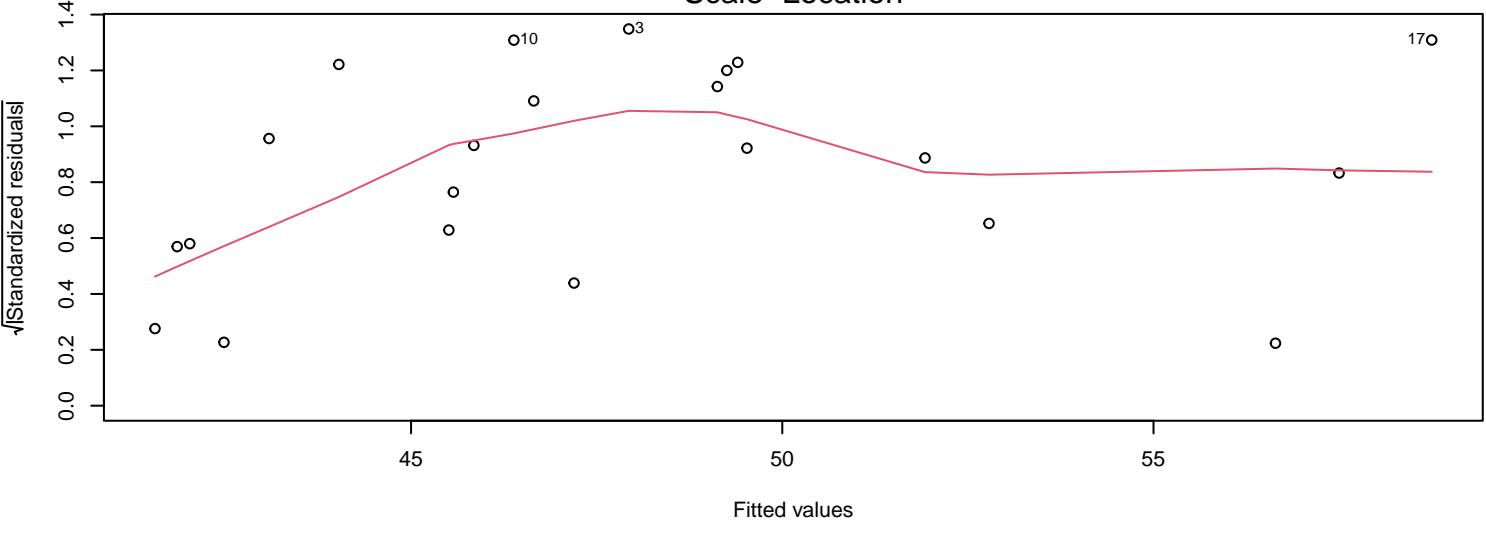
**Residuals vs Fitted: fss\_sum ~ sindex\_pre\_max**  
Residuals vs Fitted



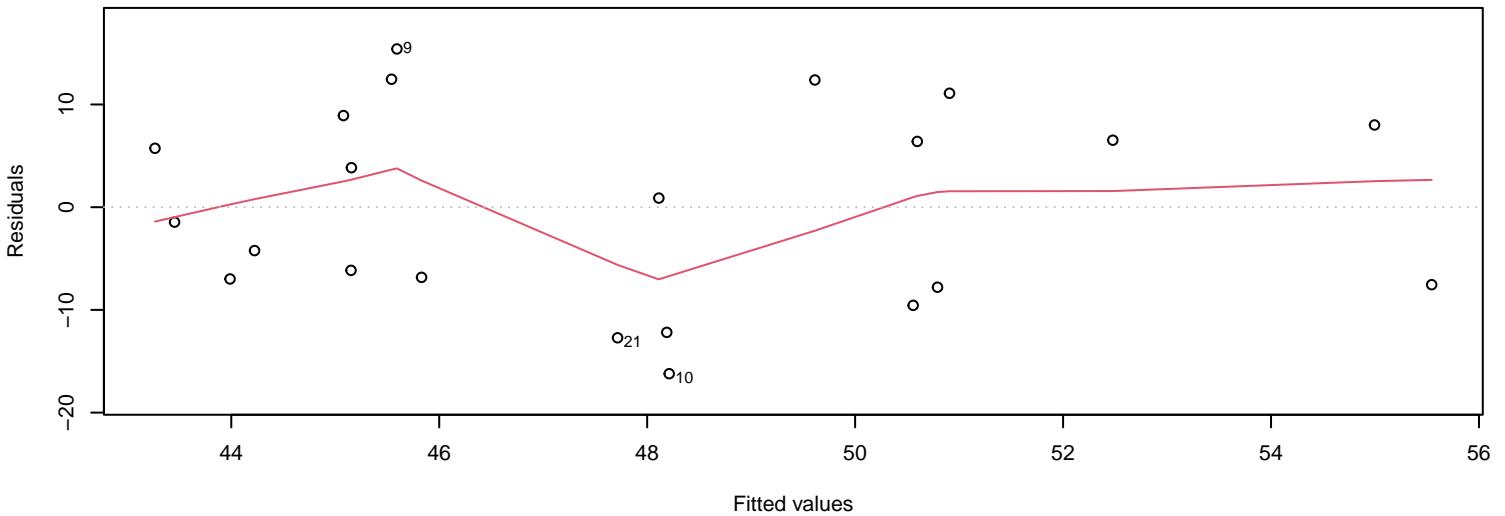
**Normal Q-Q: fss\_sum ~ sindex\_pre\_max**  
Q-Q Residuals



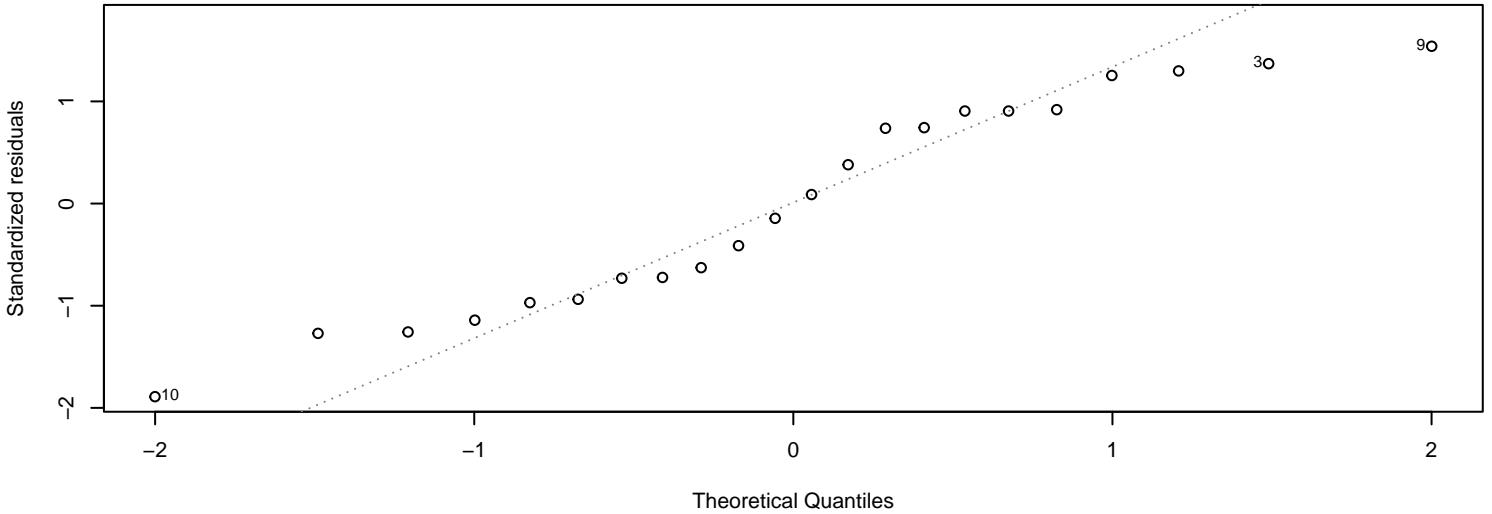
**Scale–Location: fss\_sum ~ sindex\_pre\_max**  
Scale–Location



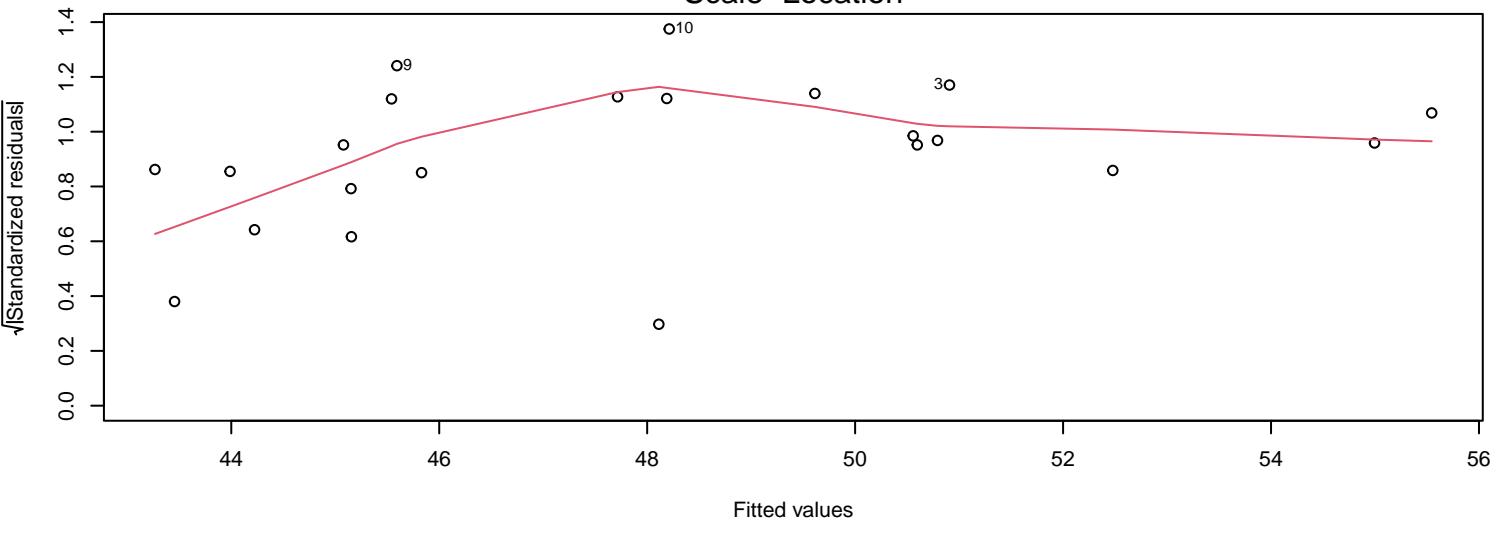
**Residuals vs Fitted: fss\_sum ~ volume\_pre\_max**  
Residuals vs Fitted



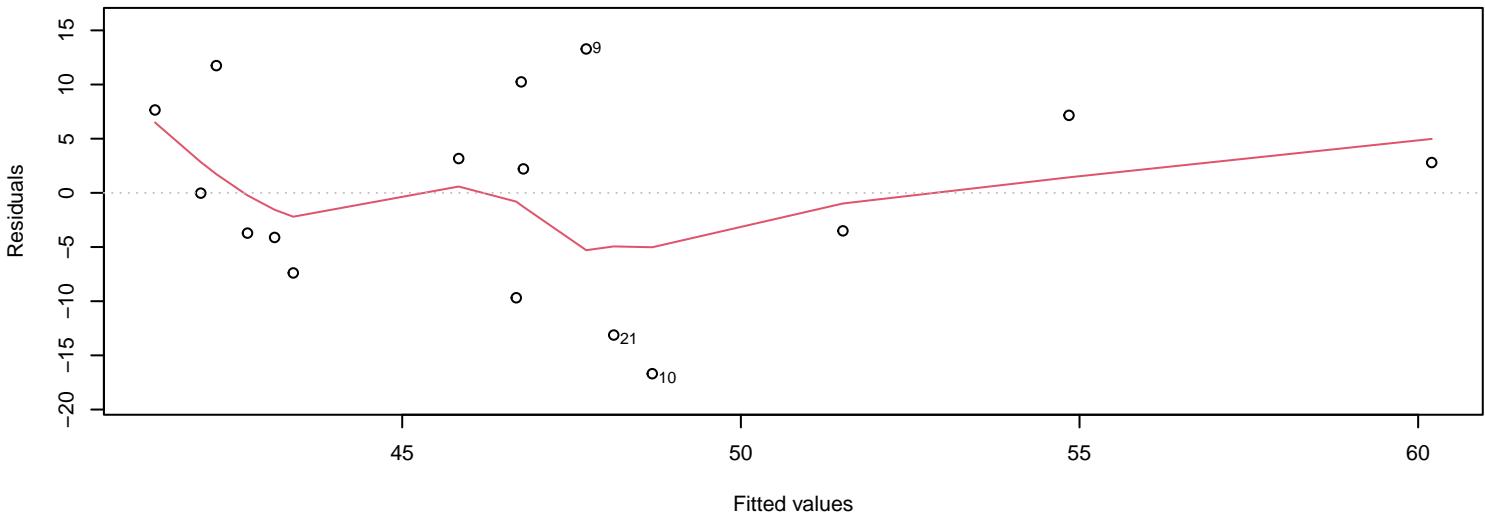
**Normal Q–Q: fss\_sum ~ volume\_pre\_max**  
Q–Q Residuals



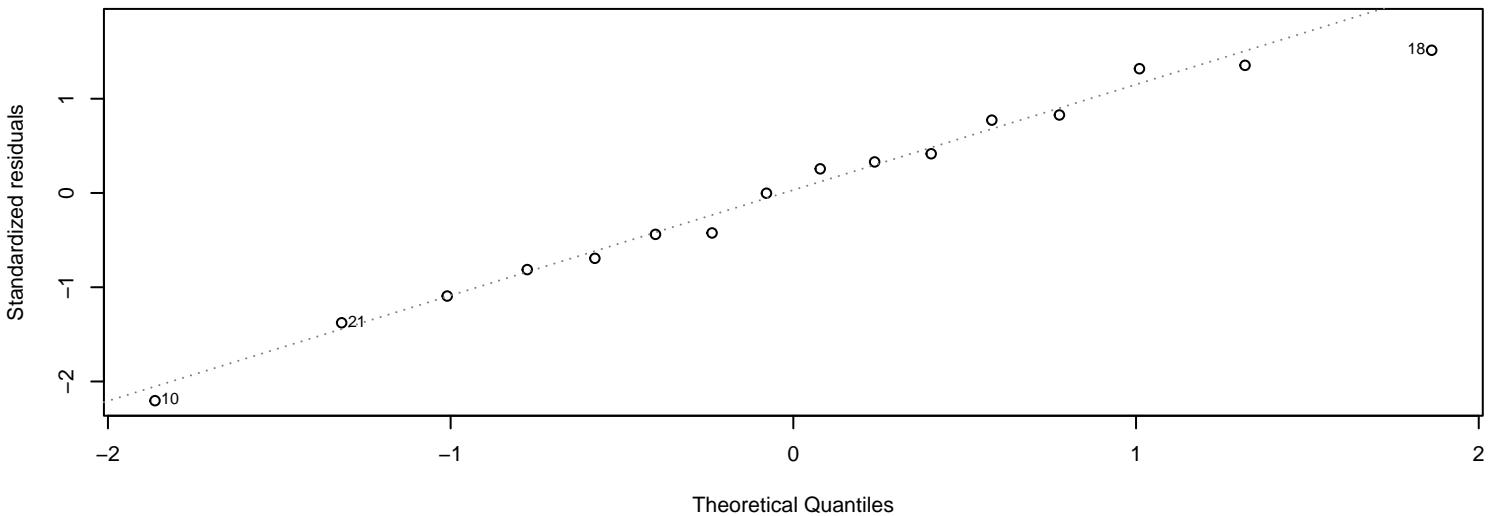
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Scale–Location



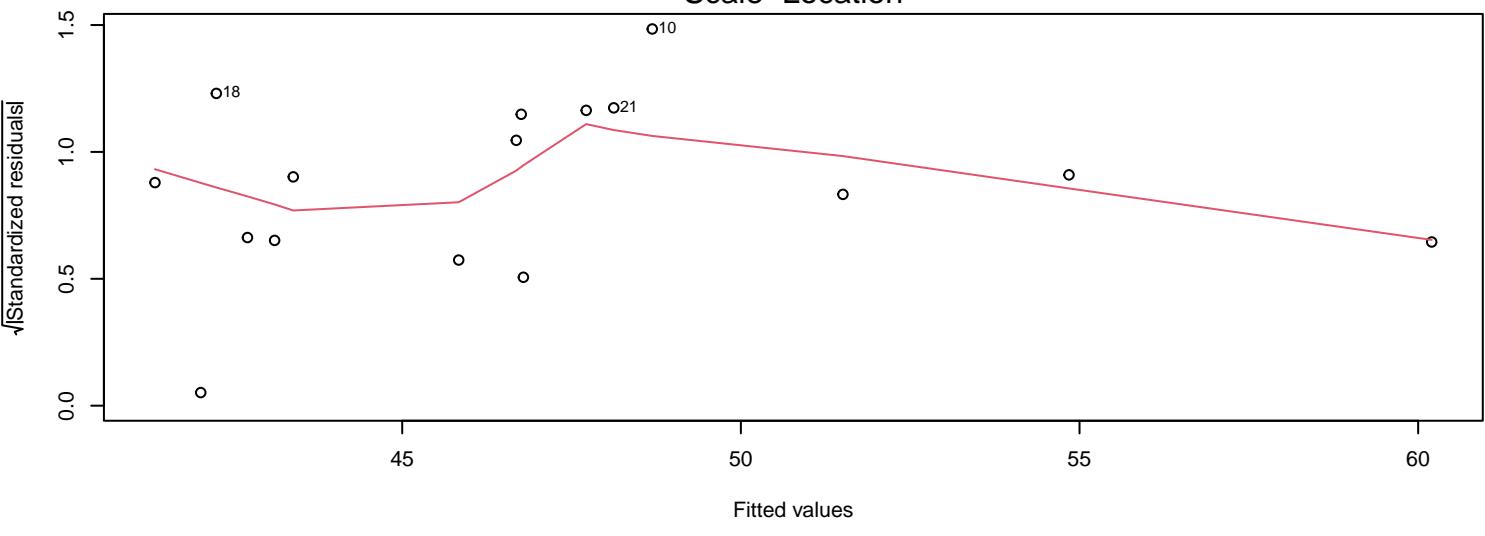
Residuals vs Fitted: fss\_sum ~ id\_pre\_max  
Residuals vs Fitted



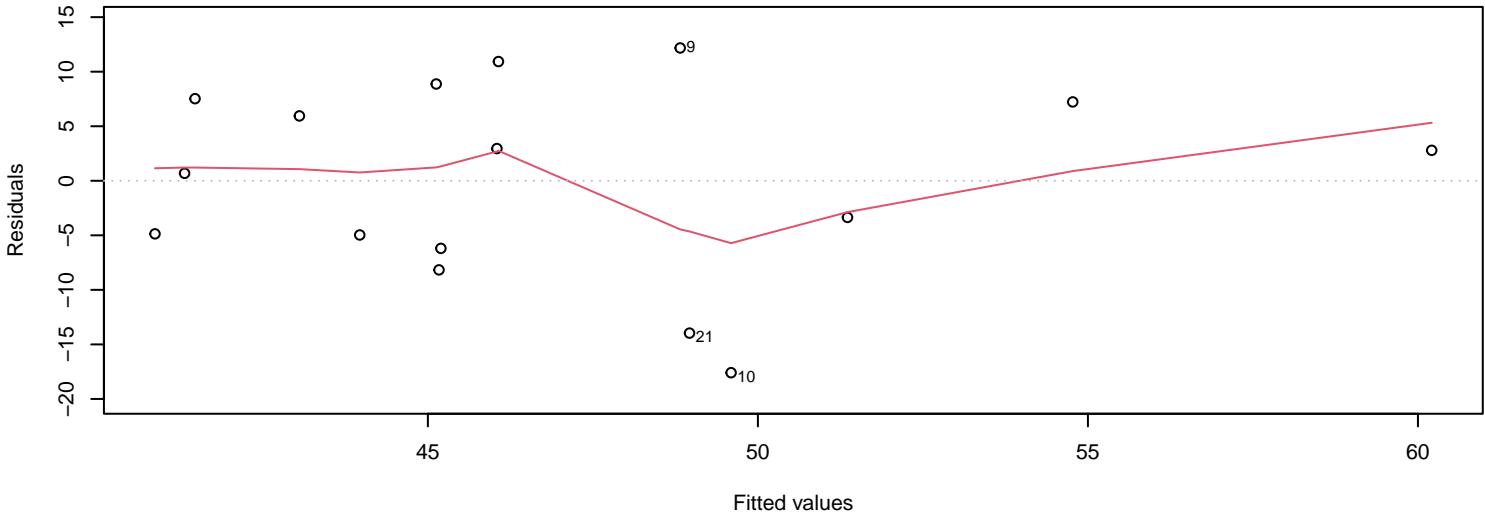
Normal Q-Q: fss\_sum ~ id\_pre\_max  
Q-Q Residuals



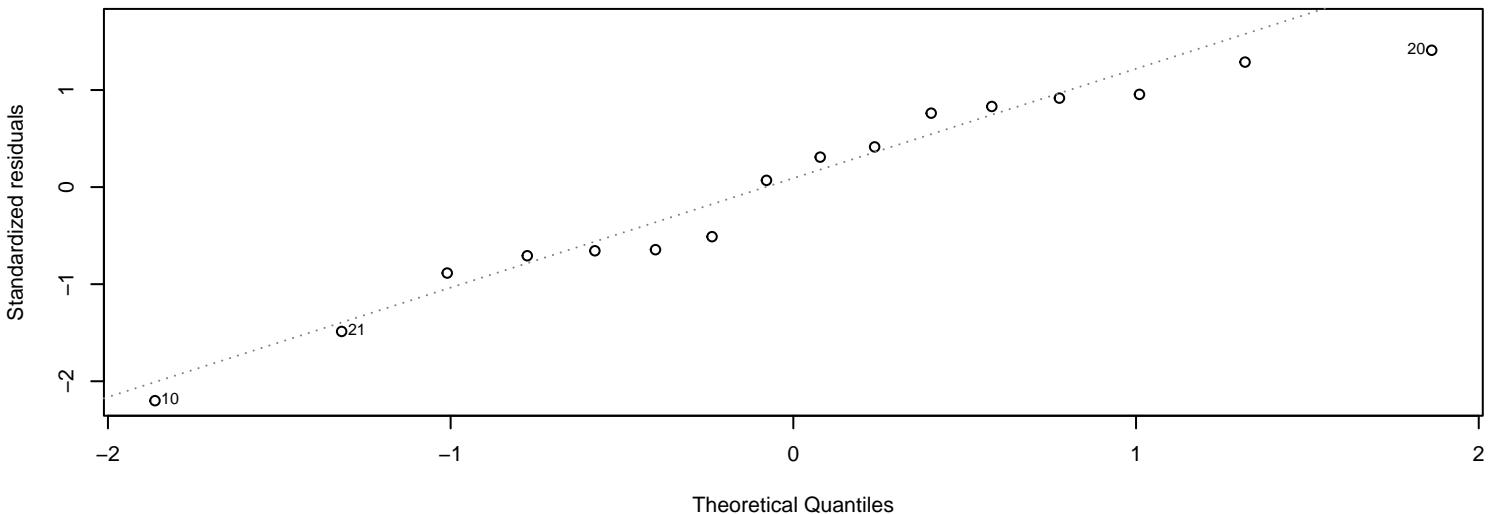
Scale–Location: fss\_sum ~ id\_pre\_max  
Scale–Location



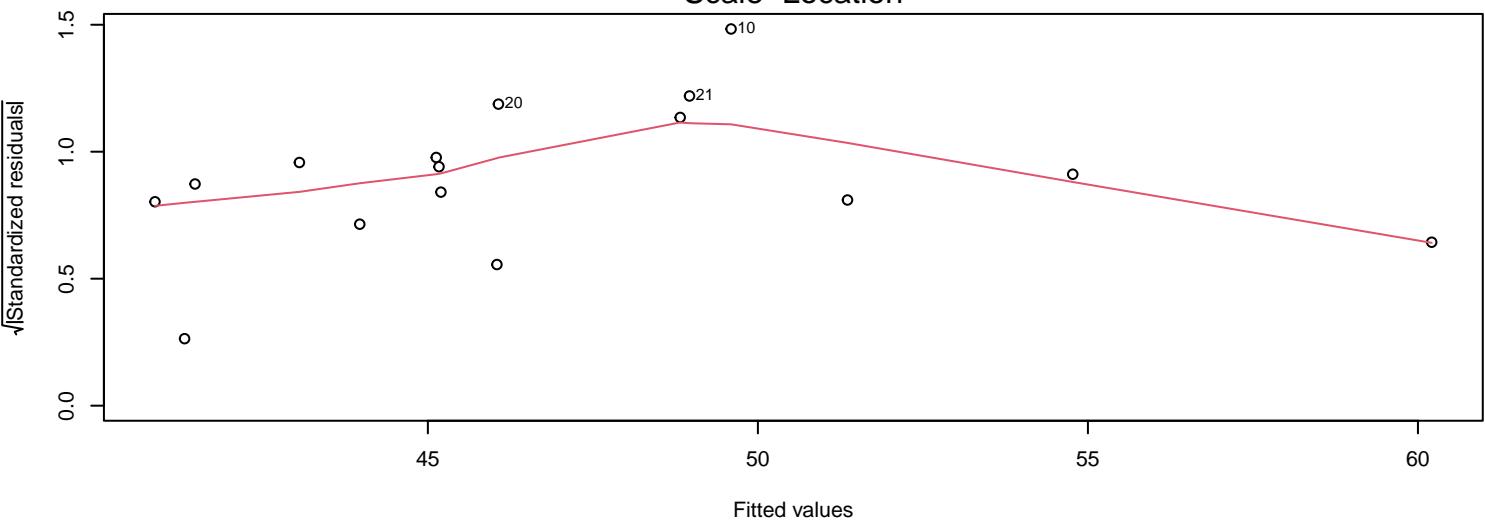
**Residuals vs Fitted: fss\_sum ~ slopesmip\_pre\_max**  
Residuals vs Fitted



**Normal Q-Q: fss\_sum ~ slopesmip\_pre\_max**  
Q-Q Residuals

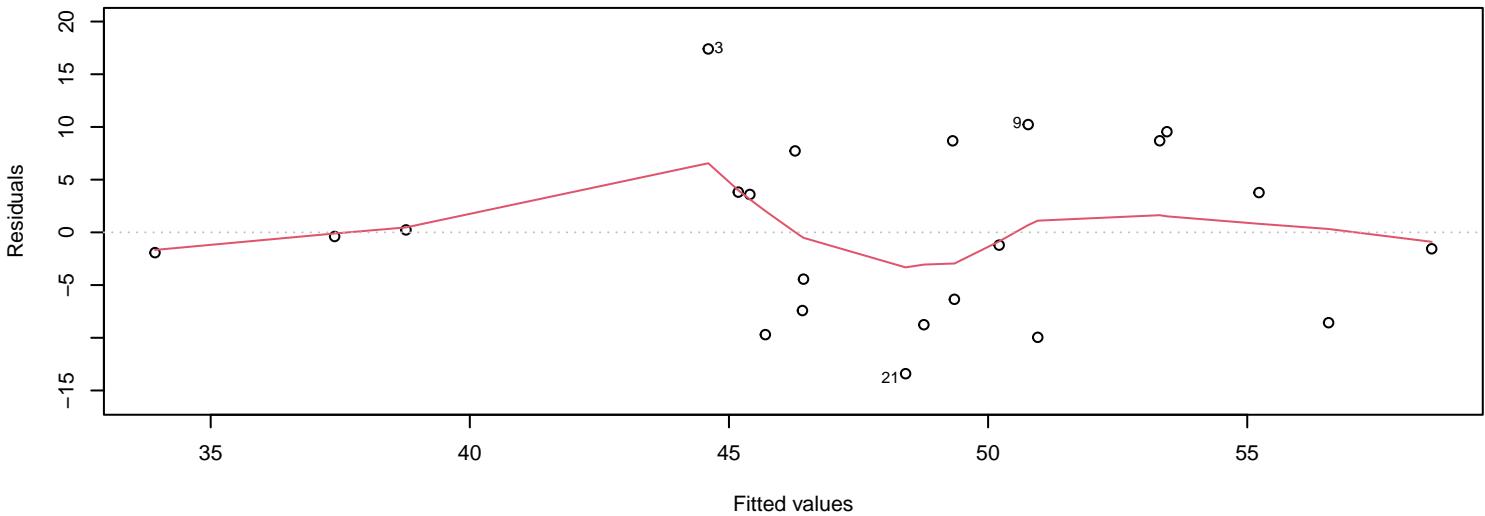


**Scale–Location: fss\_sum ~ slopesmip\_pre\_max**  
Scale–Location



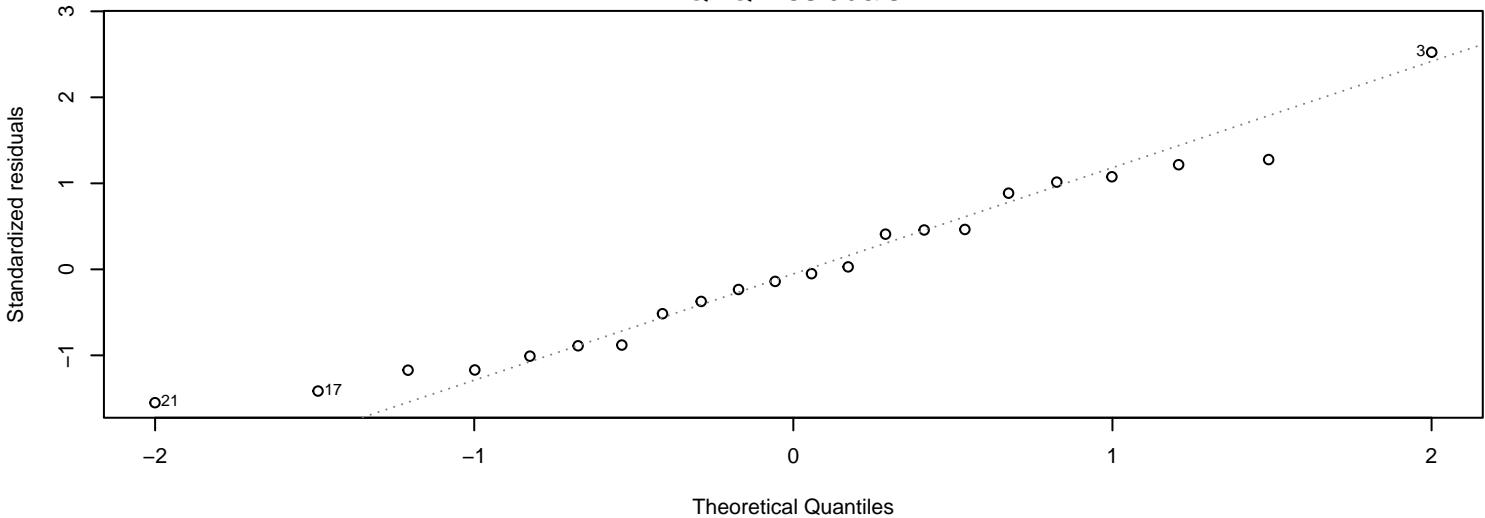
### Residuals vs Fitted: fss\_sum ~ mip\_post\_max

#### Residuals vs Fitted



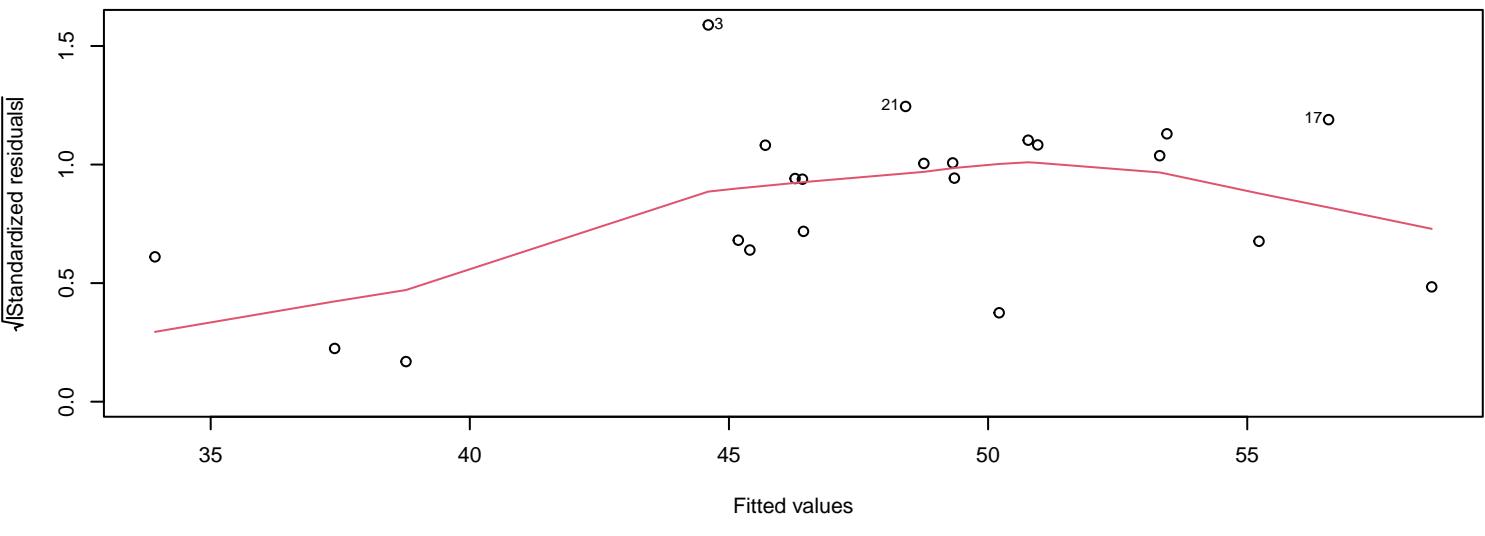
### Normal Q-Q: fss\_sum ~ mip\_post\_max

#### Q-Q Residuals

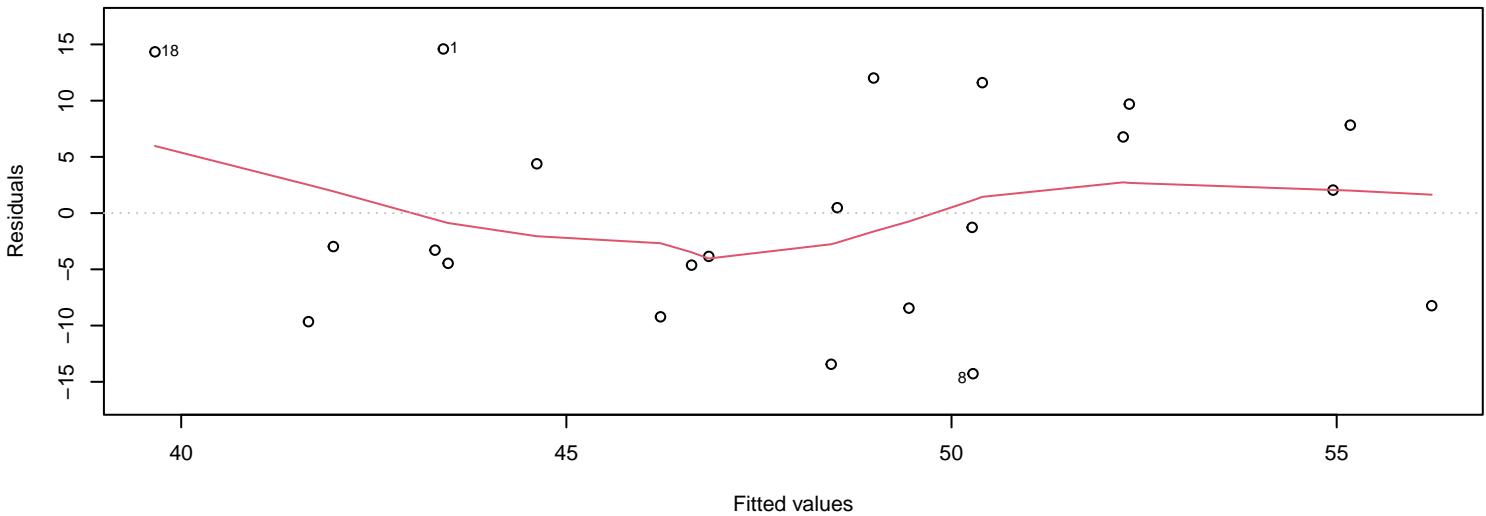


### Scale-Location: fss\_sum ~ mip\_post\_max

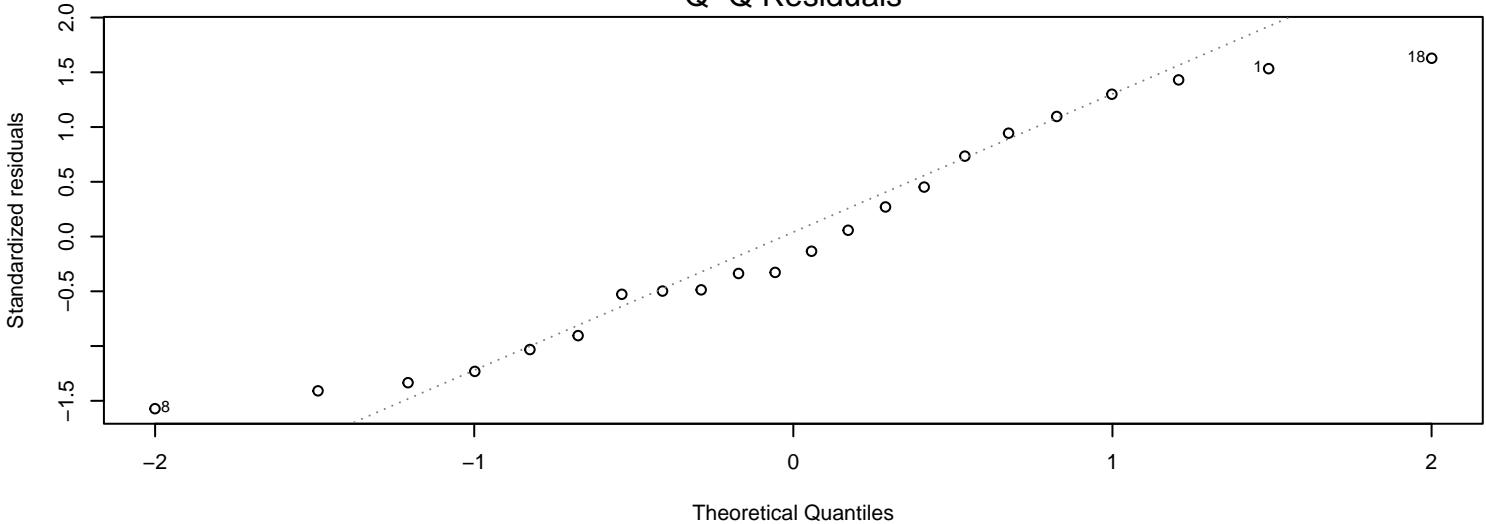
#### Scale-Location



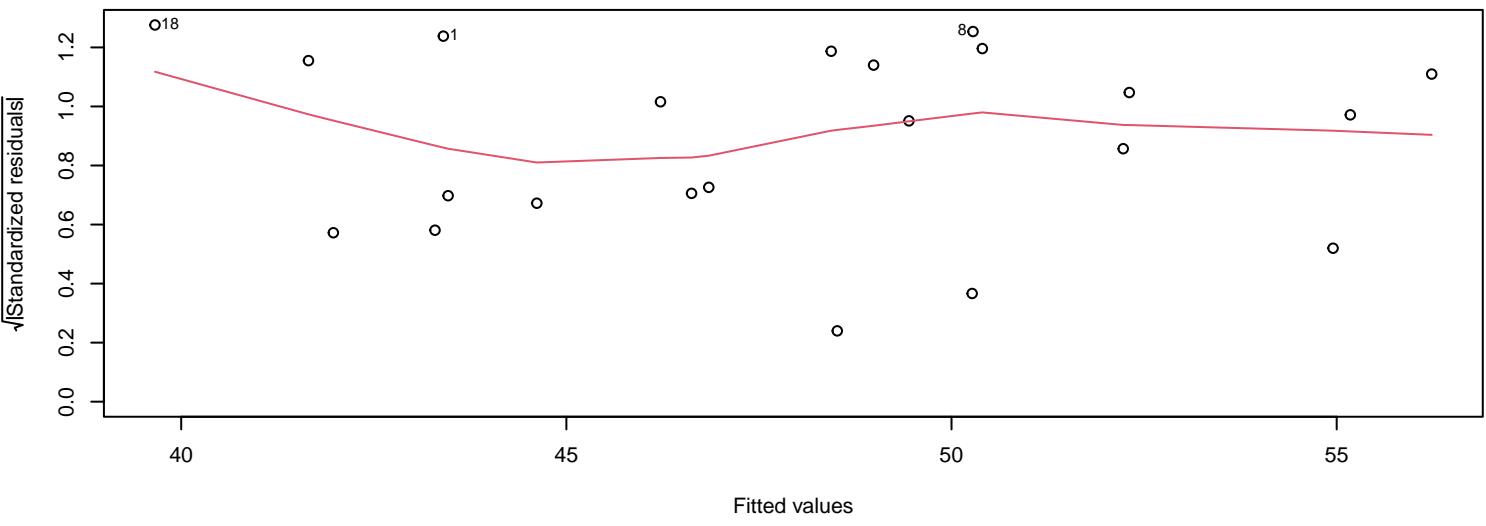
**Residuals vs Fitted: fss\_sum ~ smip\_post\_max**  
Residuals vs Fitted



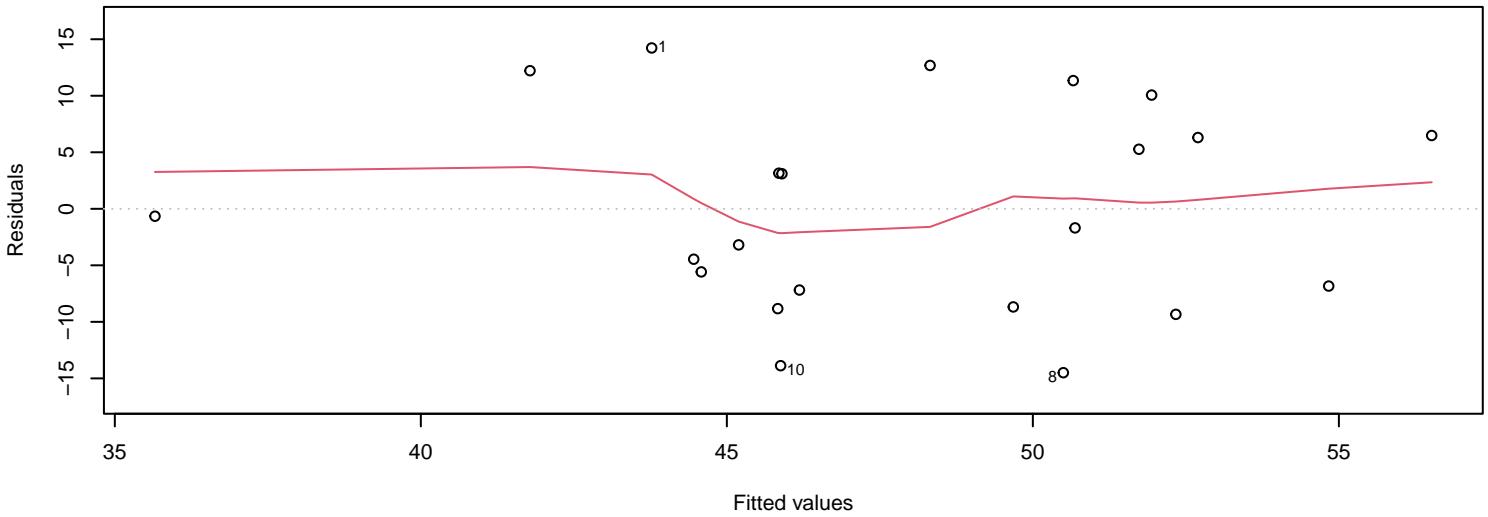
**Normal Q-Q: fss\_sum ~ smip\_post\_max**  
Q-Q Residuals



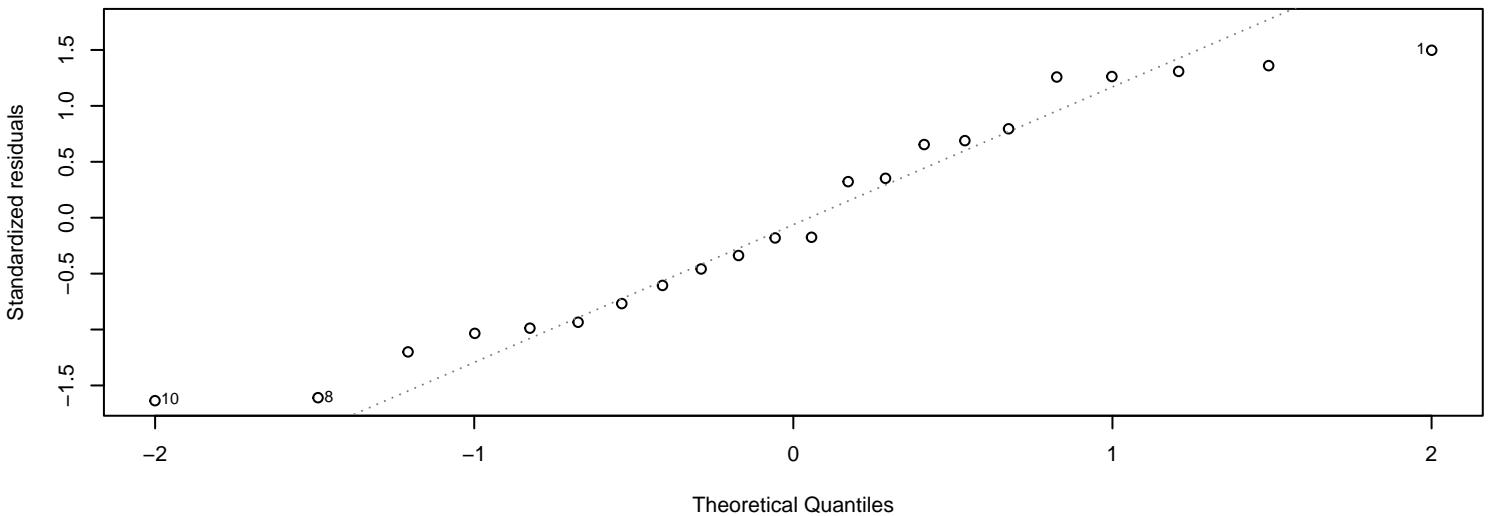
**Scale–Location: fss\_sum ~ smip\_post\_max**  
Scale–Location



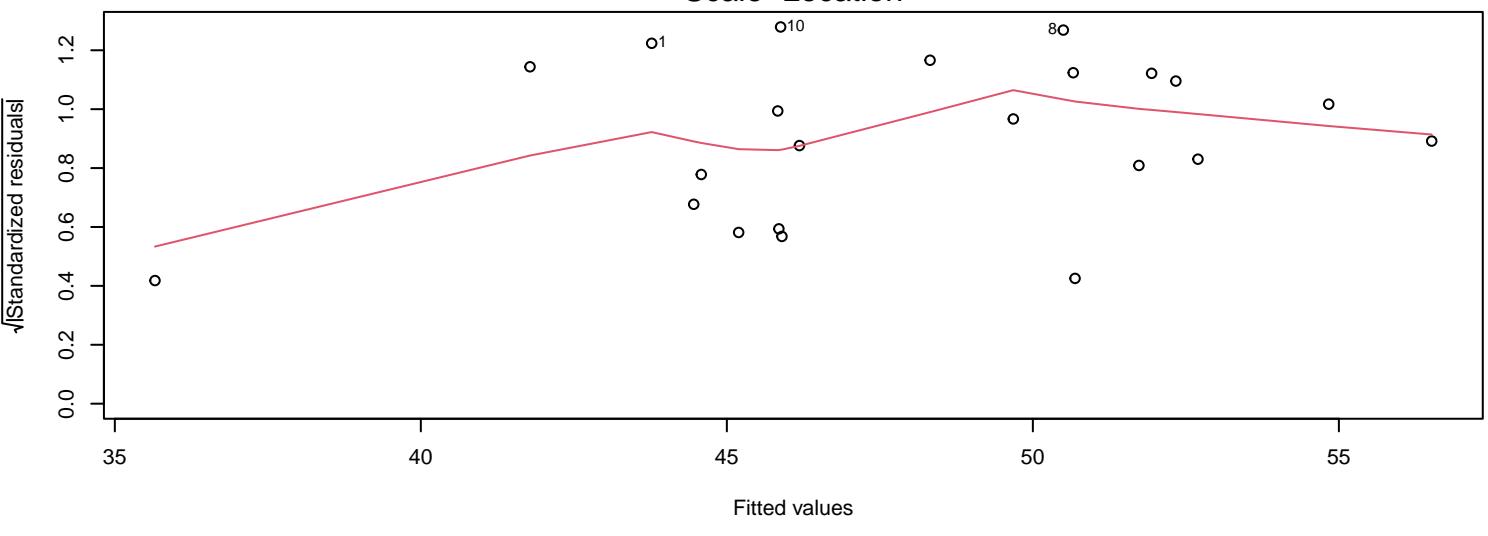
Residuals vs Fitted: fss\_sum ~ fit\_post\_max  
Residuals vs Fitted



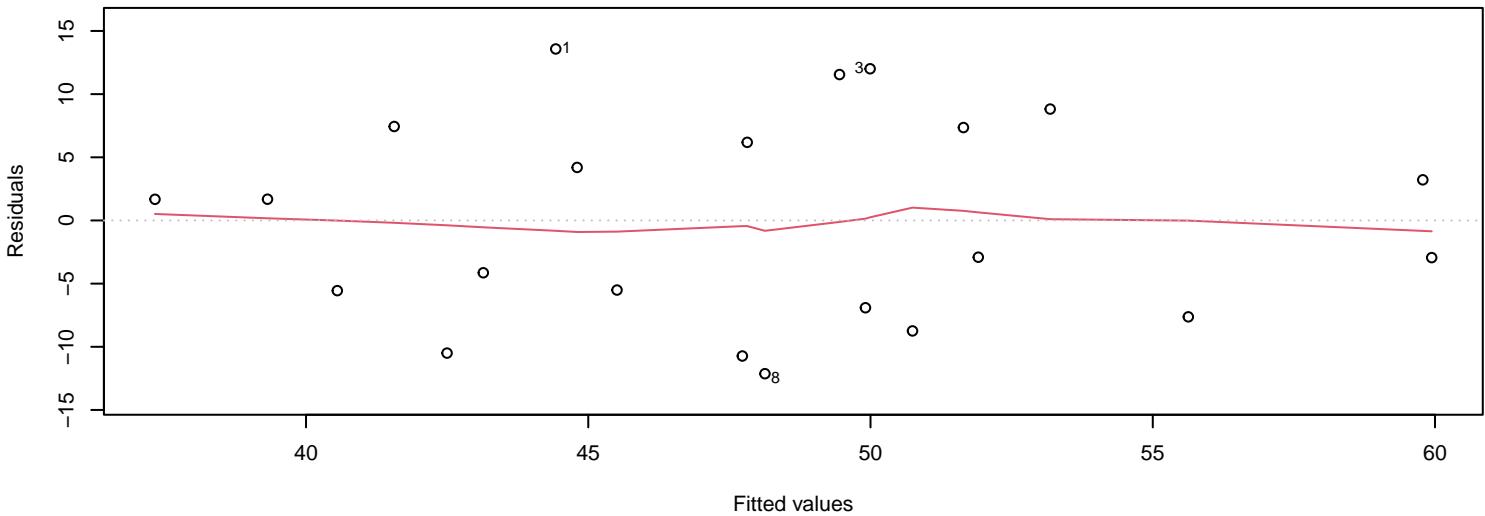
Normal Q–Q: fss\_sum ~ fit\_post\_max  
Q–Q Residuals



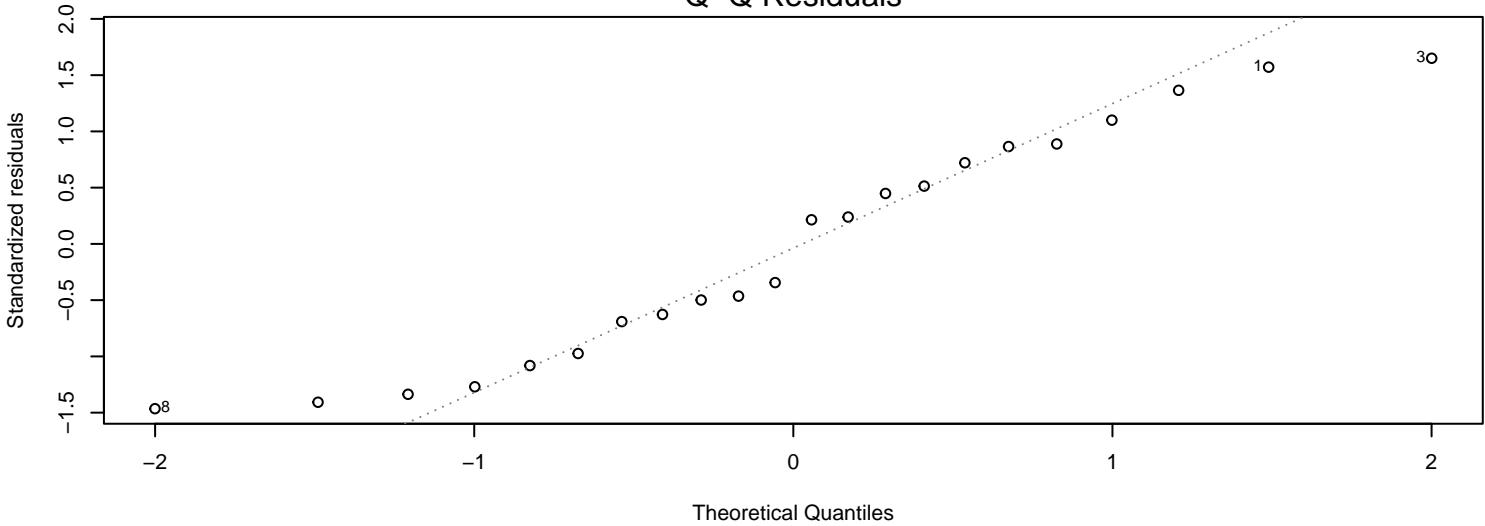
Scale–Location: fss\_sum ~ fit\_post\_max  
Scale–Location



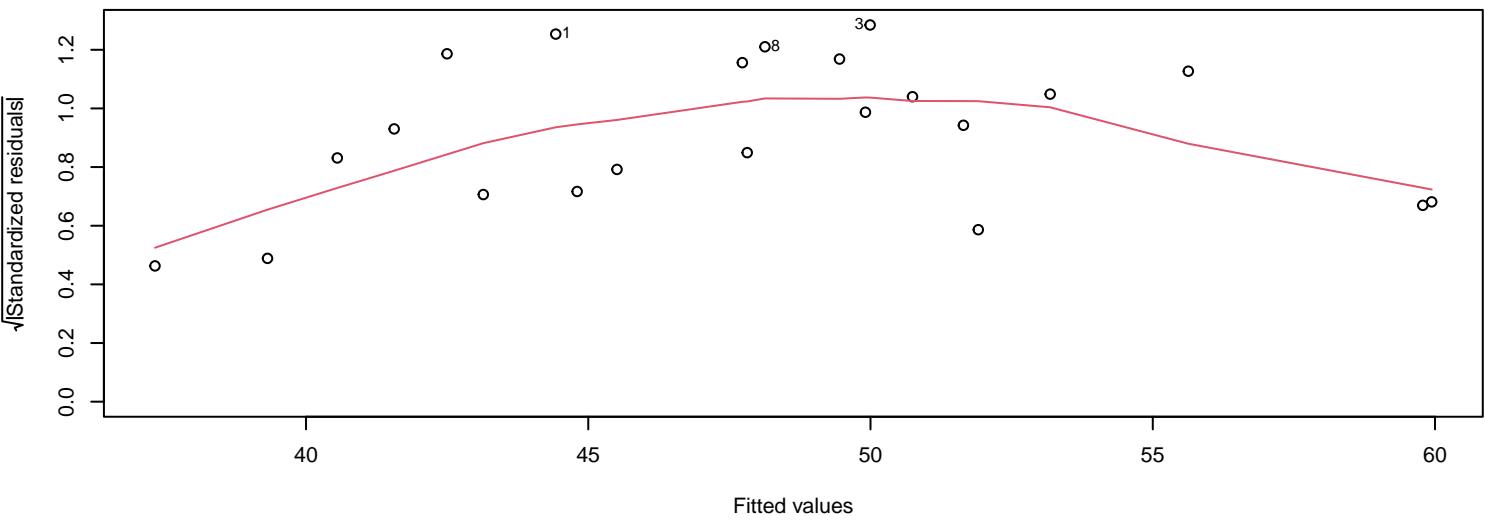
**Residuals vs Fitted: fss\_sum ~ pif\_post\_max**  
Residuals vs Fitted



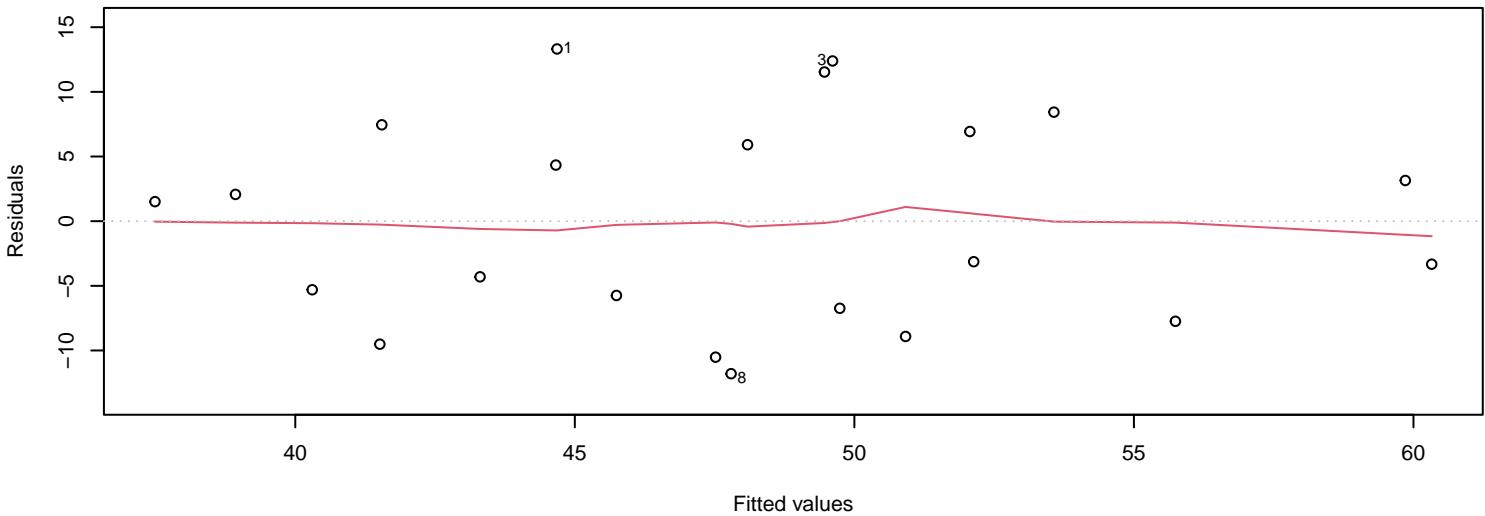
**Normal Q-Q: fss\_sum ~ pif\_post\_max**  
Q-Q Residuals



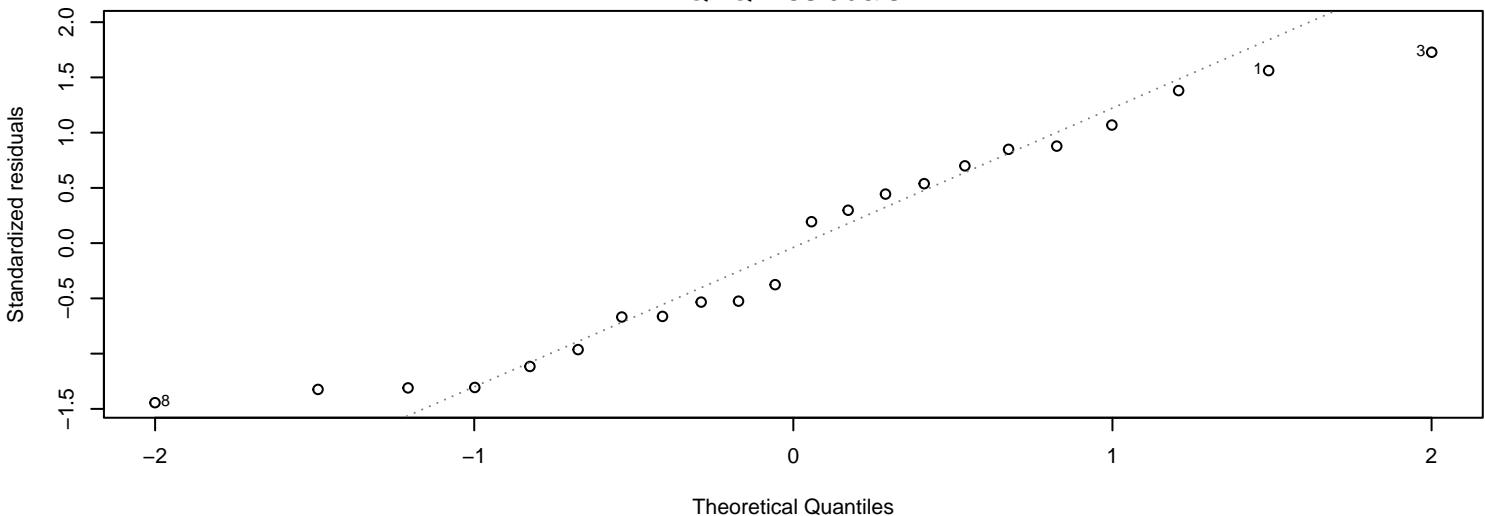
**Scale–Location: fss\_sum ~ pif\_post\_max**  
Scale–Location



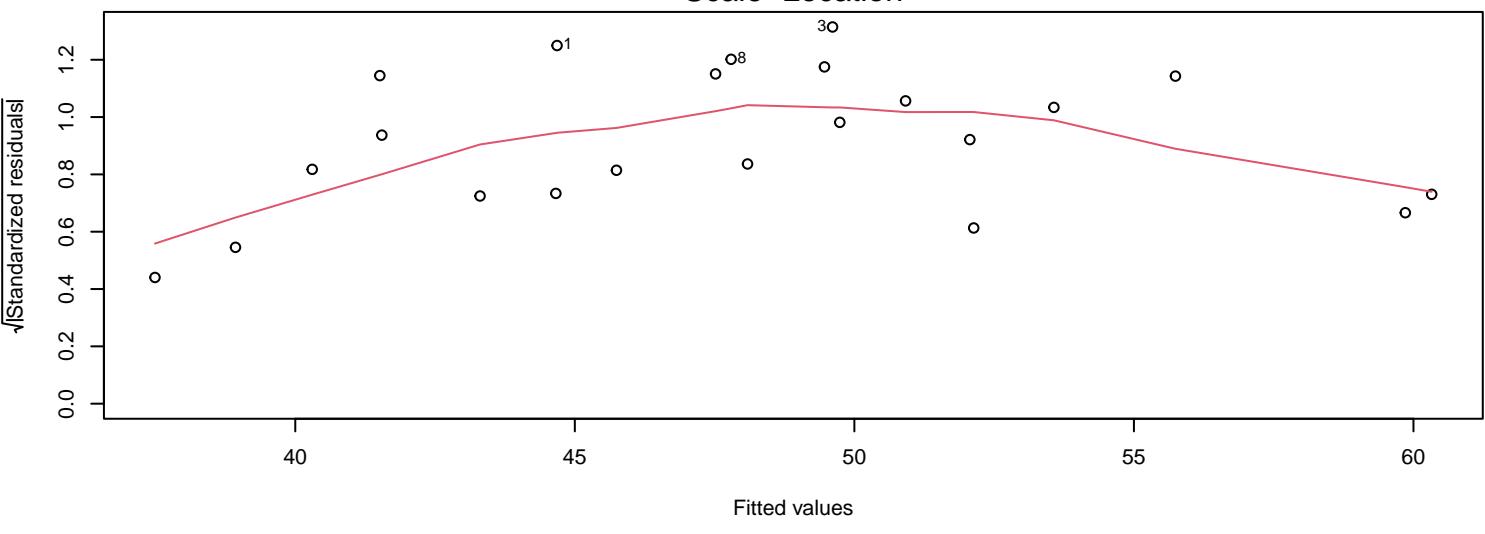
Residuals vs Fitted: fss\_sum ~ sindex\_post\_max  
Residuals vs Fitted



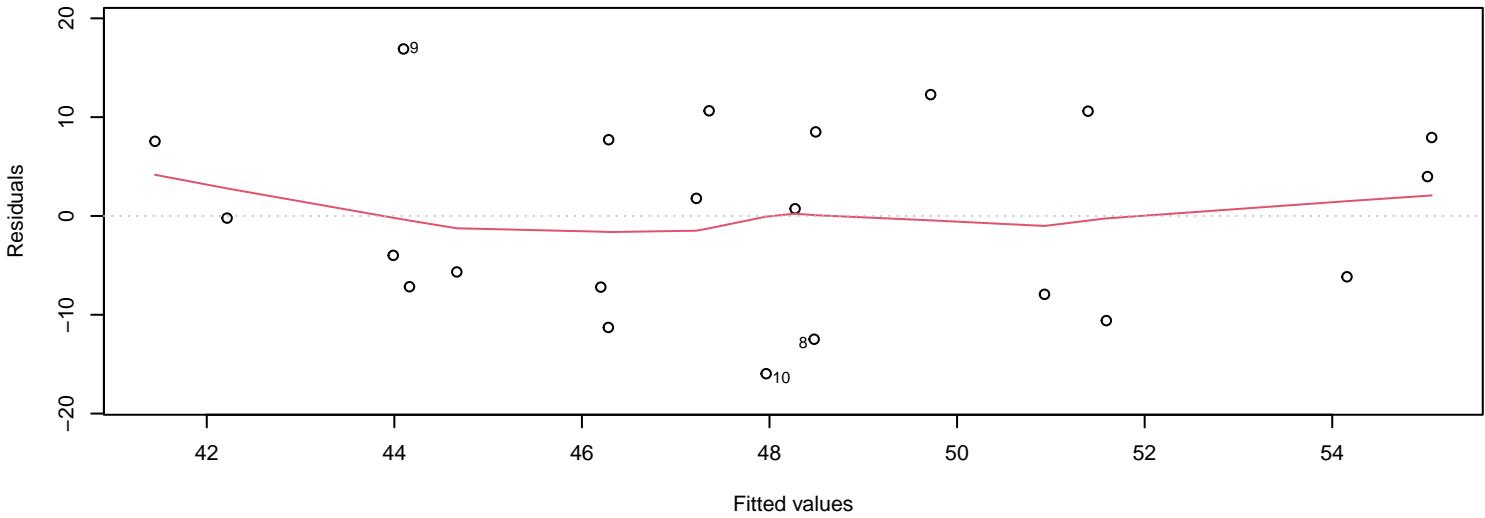
Normal Q-Q: fss\_sum ~ sindex\_post\_max  
Q-Q Residuals



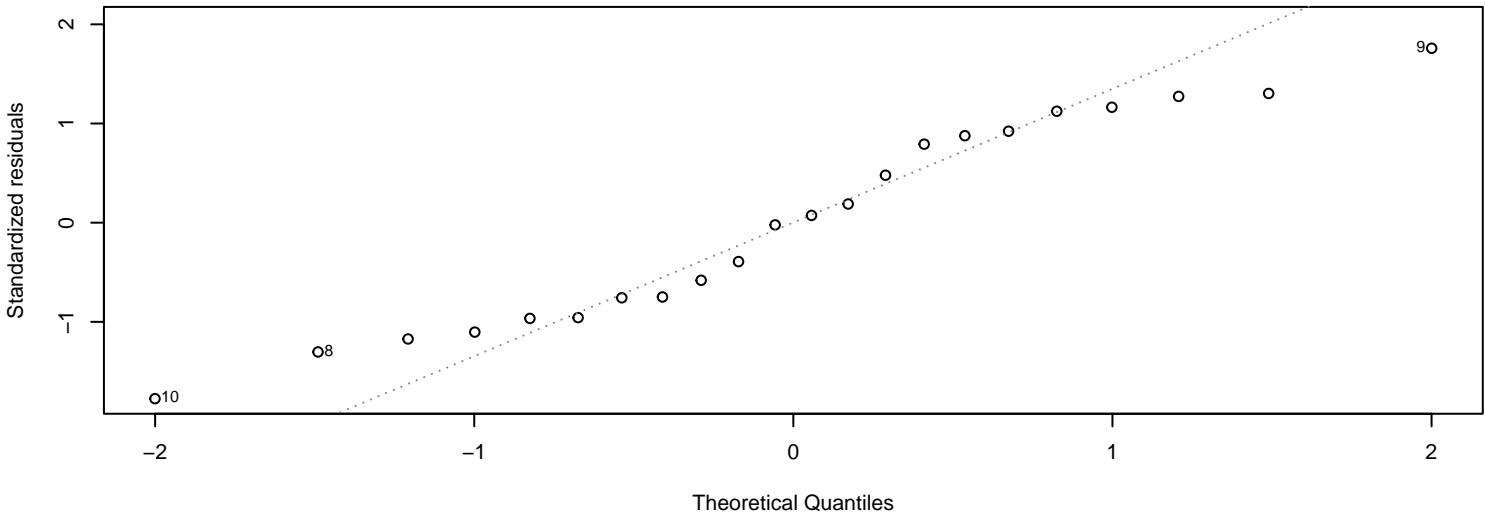
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Scale-Location



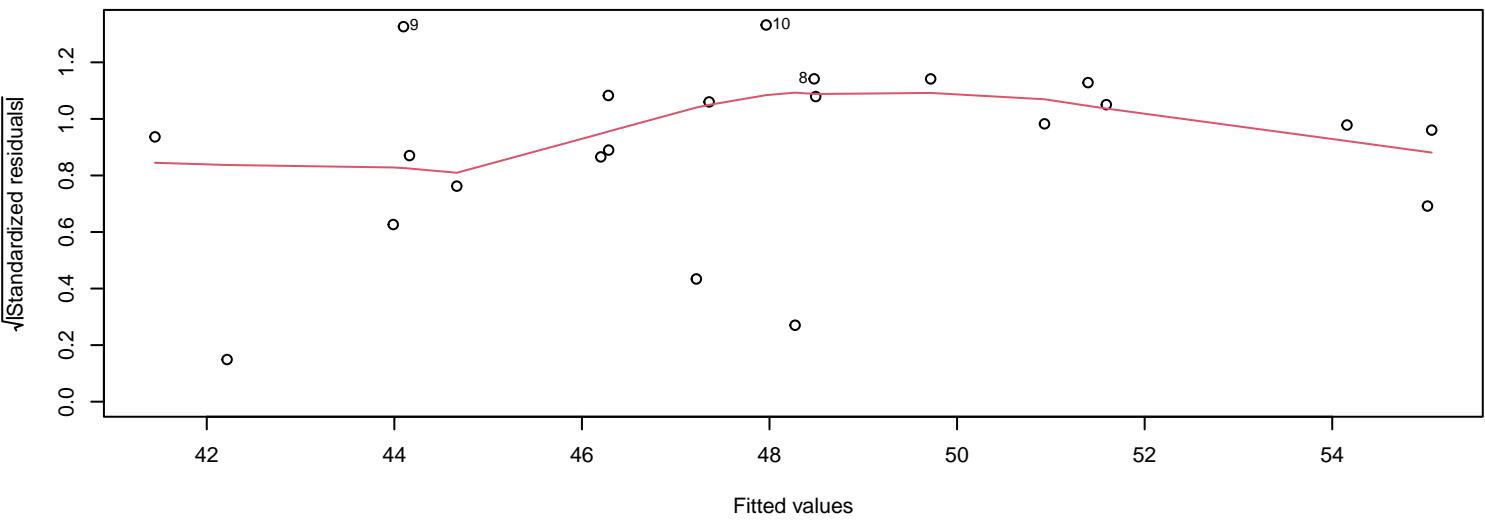
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Residuals vs Fitted

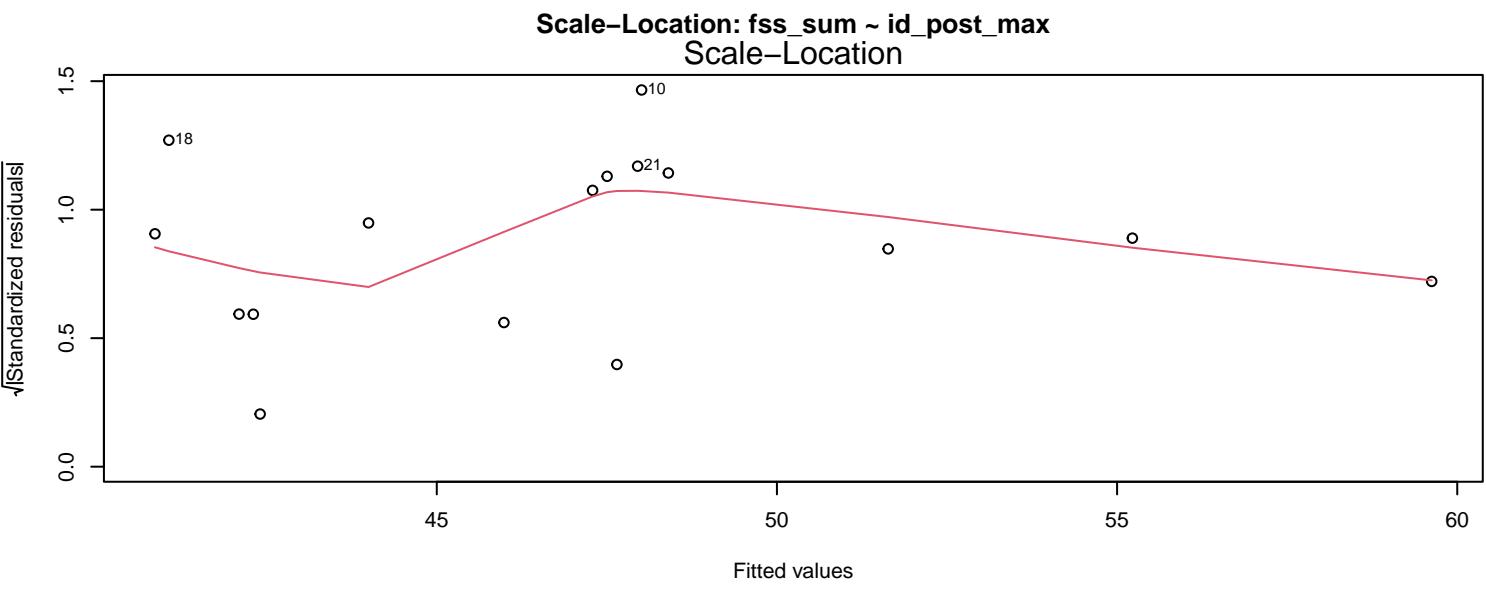
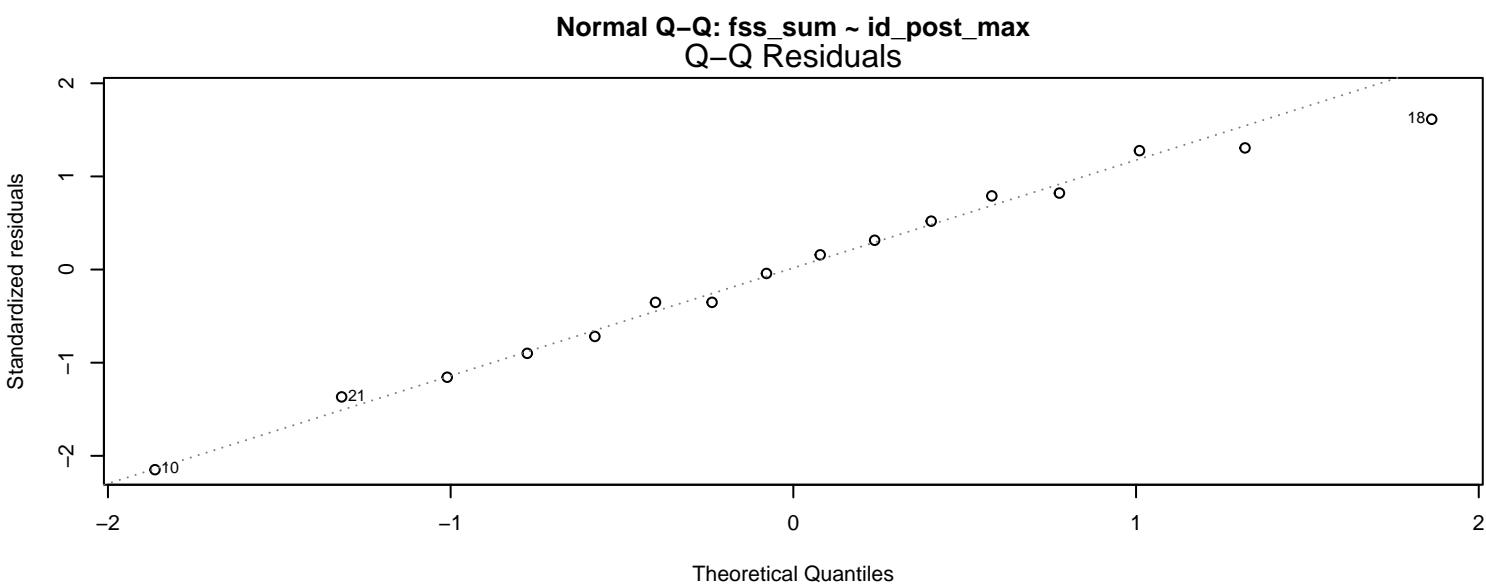
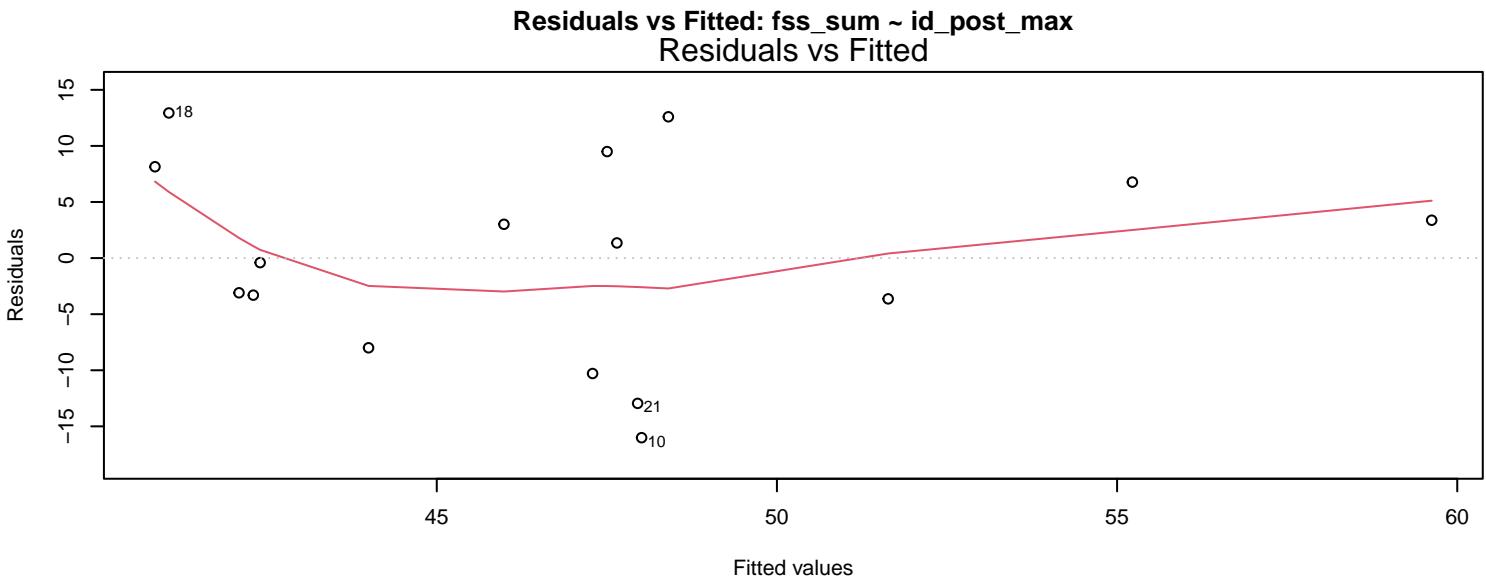


**Normal Q-Q: fss\_sum ~ volume\_post\_max**  
Q-Q Residuals

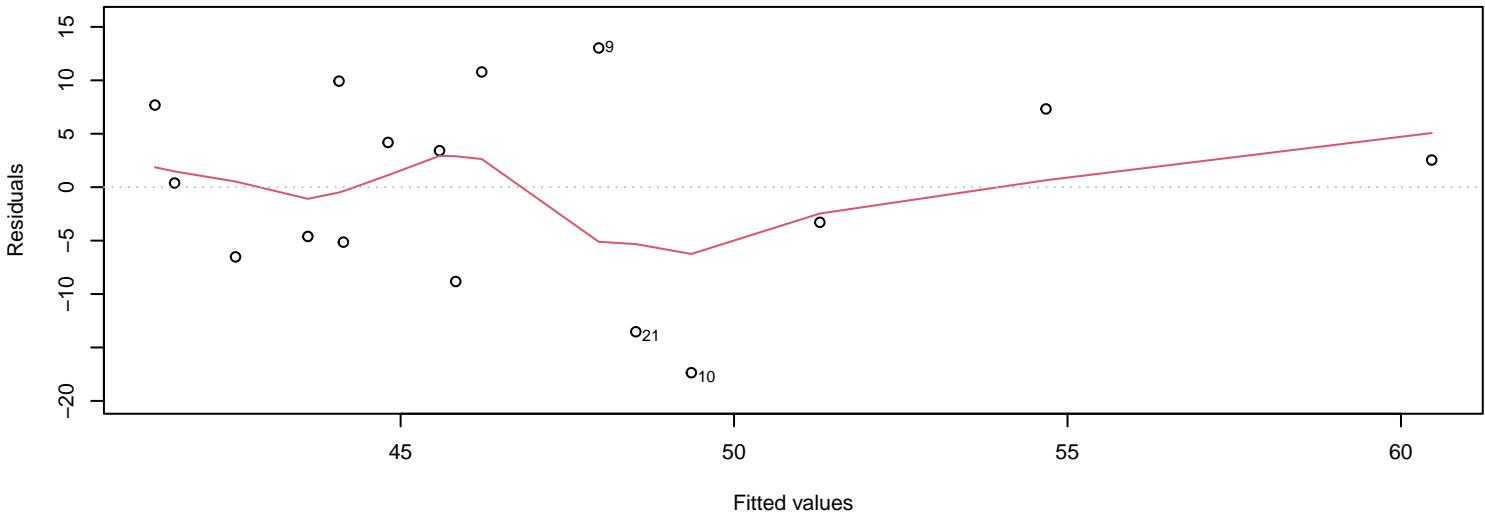


**Scale–Location: fss\_sum ~ volume\_post\_max**  
Scale–Location

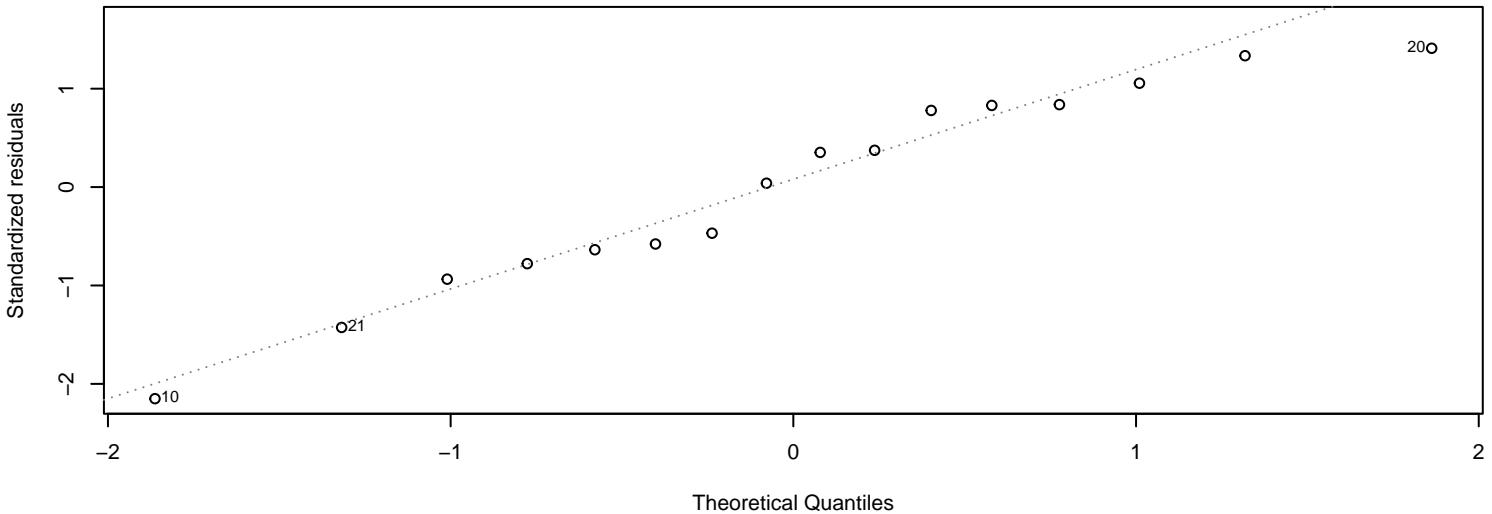




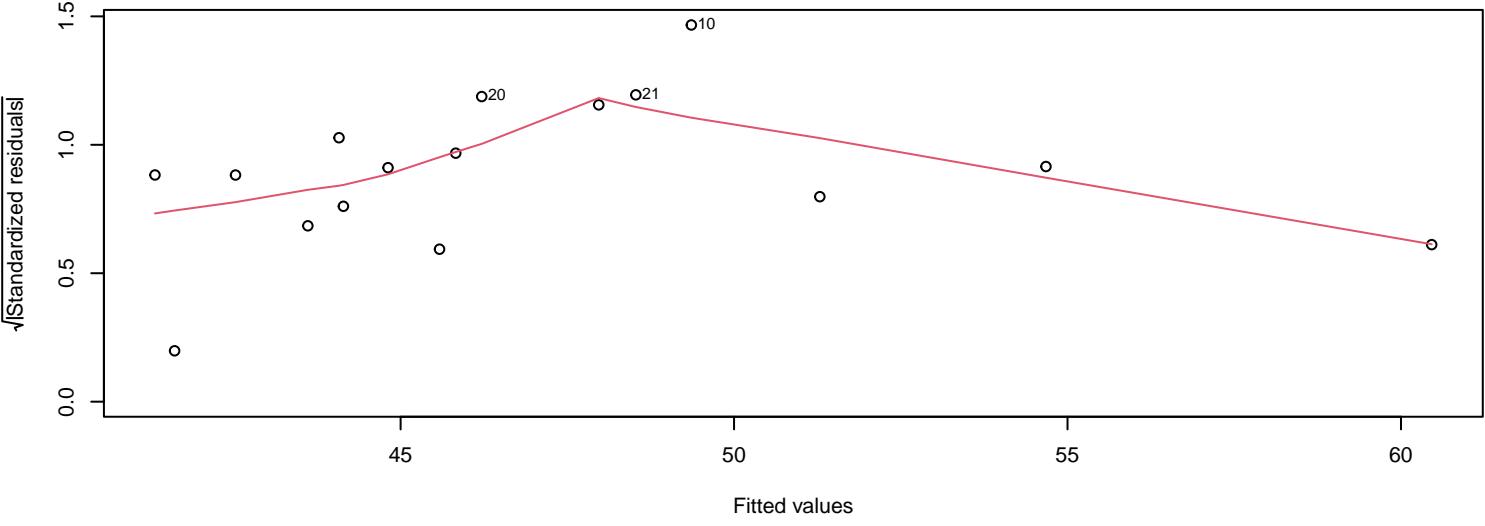
**Residuals vs Fitted: fss\_sum ~ slopesmip\_post\_max**  
Residuals vs Fitted



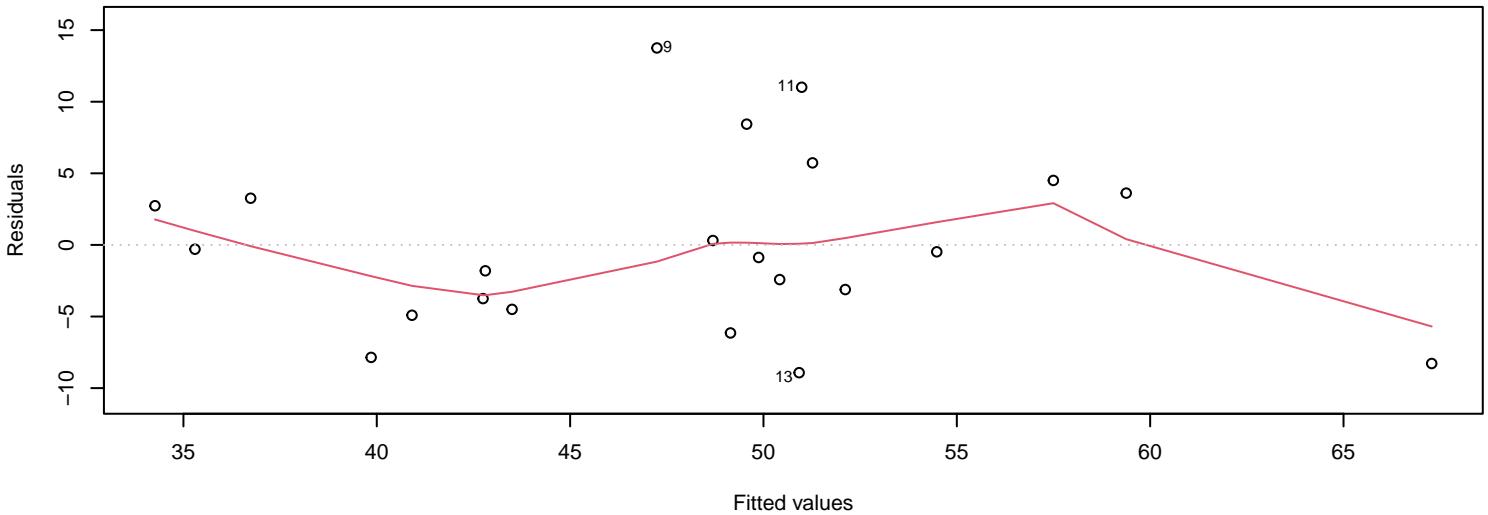
**Normal Q–Q: fss\_sum ~ slopesmip\_post\_max**  
Q–Q Residuals



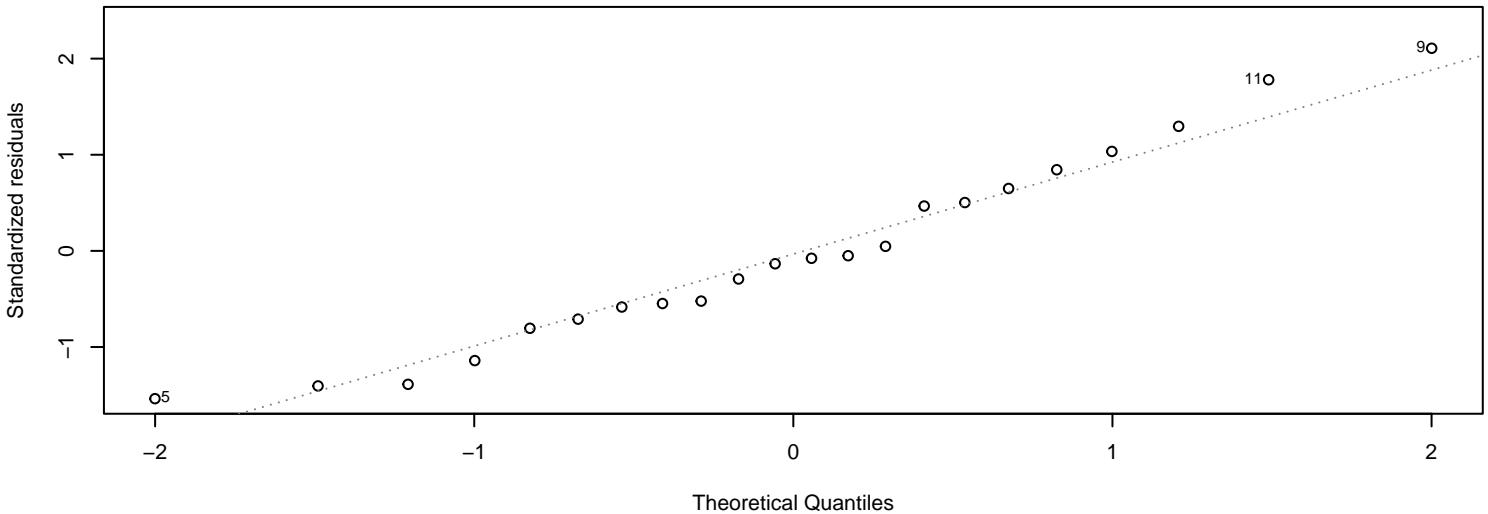
**Scale–Location: fss\_sum ~ slopesmip\_post\_max**  
Scale–Location



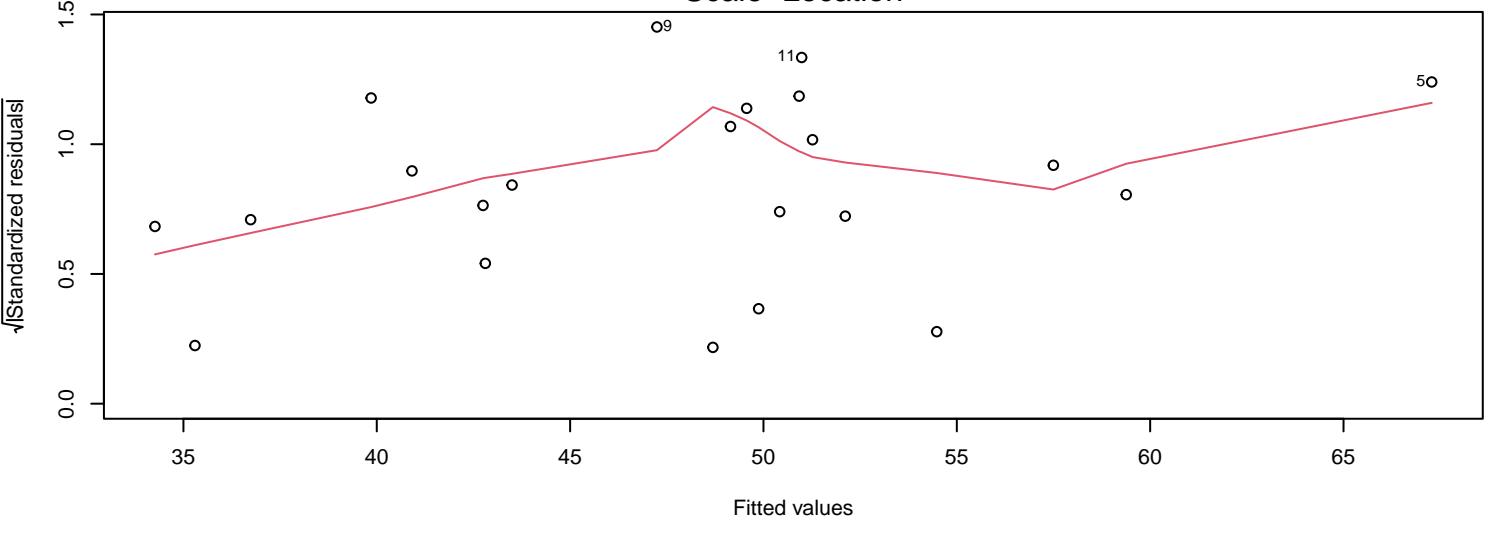
**Residuals vs Fitted: fss\_sum ~ bdi\_sum**  
Residuals vs Fitted



**Normal Q-Q: fss\_sum ~ bdi\_sum**  
Q-Q Residuals

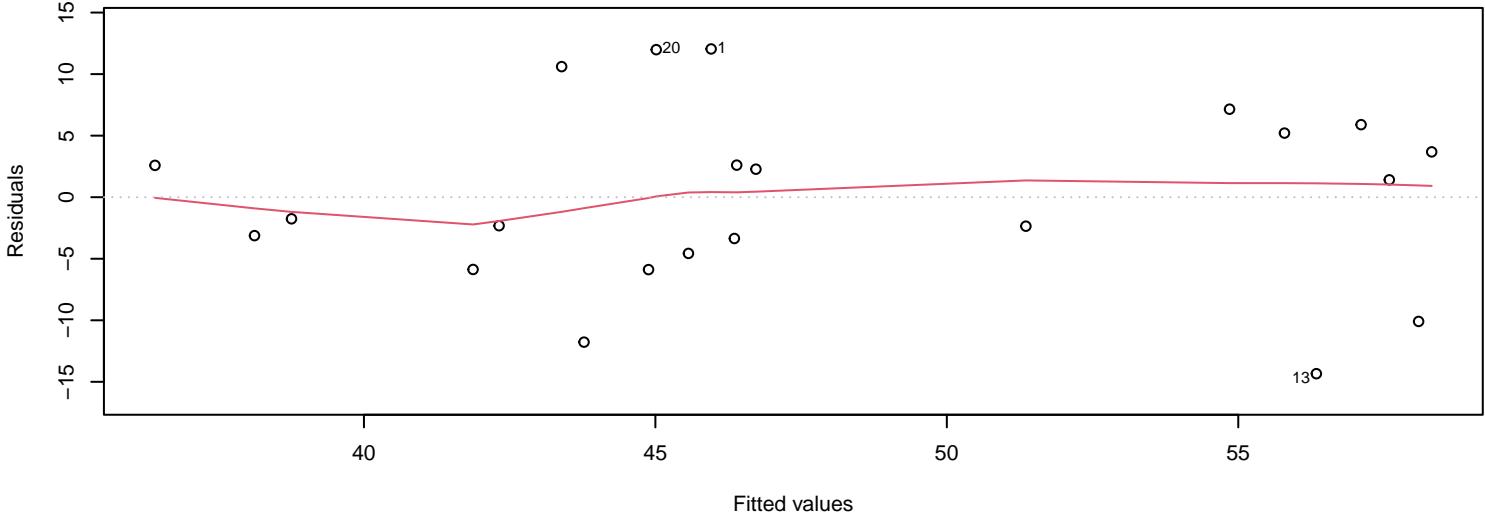


**Scale–Location: fss\_sum ~ bdi\_sum**  
Scale–Location



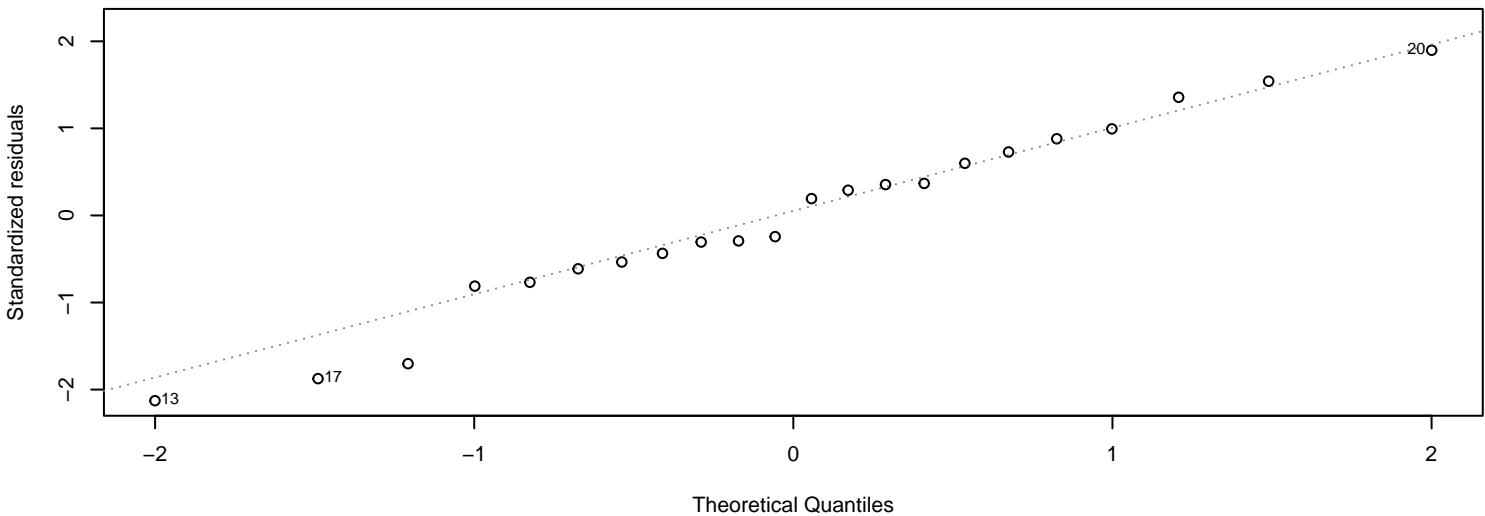
### Residuals vs Fitted: fss\_sum ~ mmrc\_score

#### Residuals vs Fitted



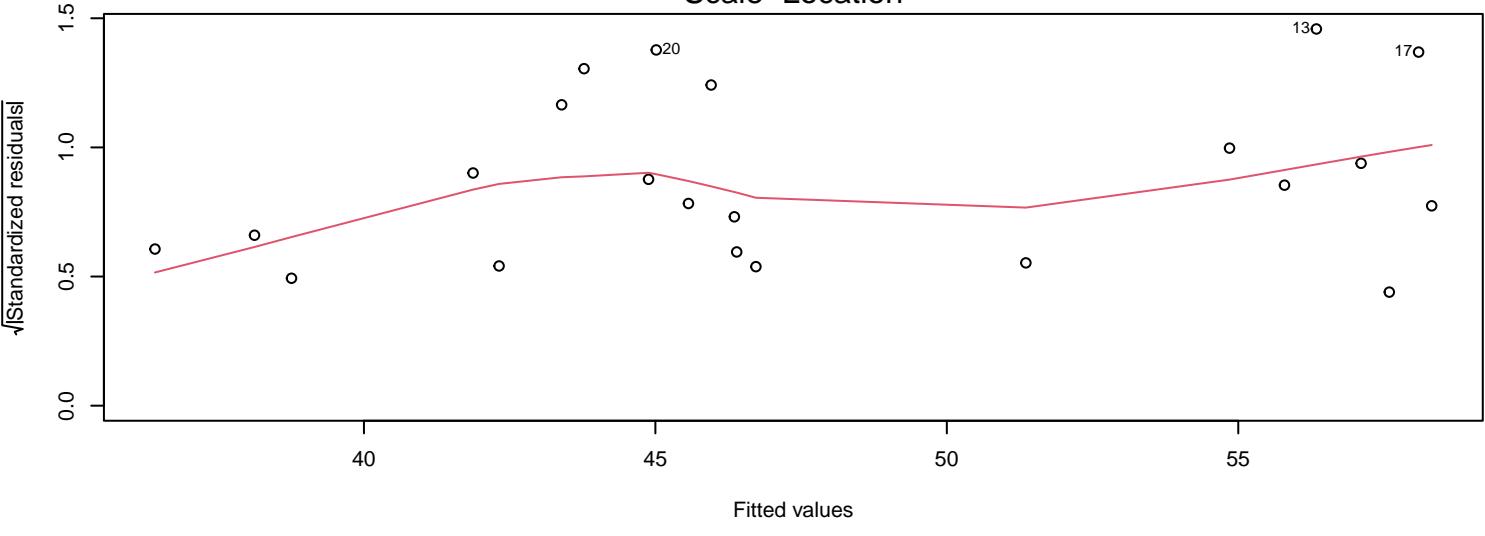
### Normal Q-Q: fss\_sum ~ mmrc\_score

#### Q-Q Residuals

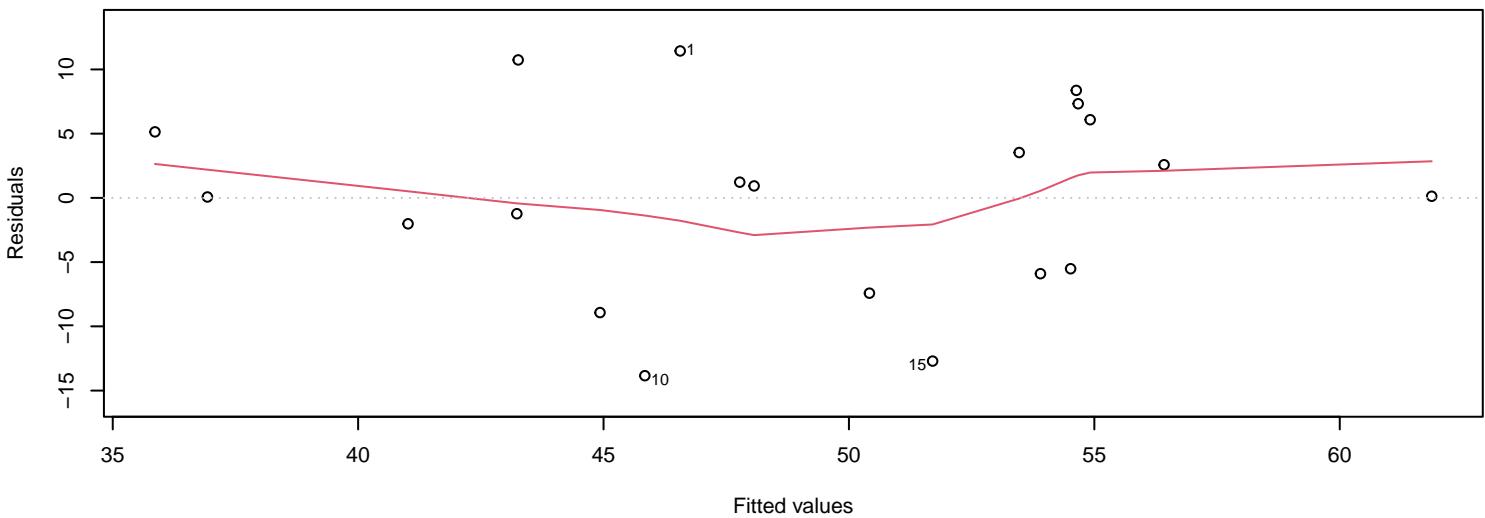


### Scale–Location: fss\_sum ~ mmrc\_score

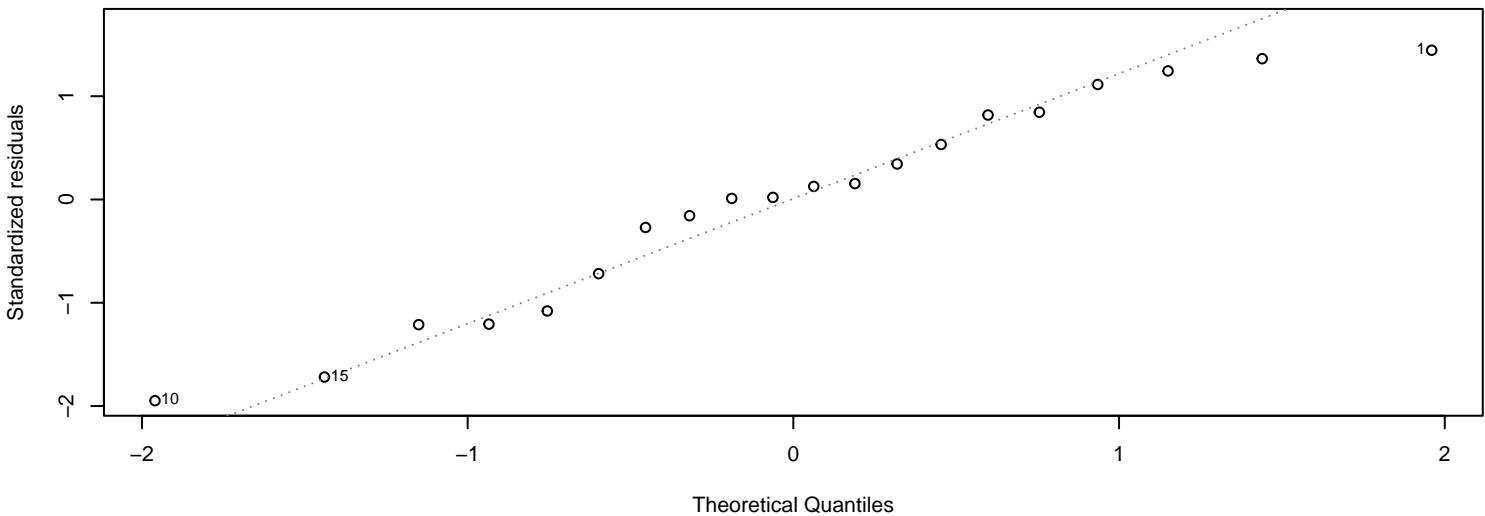
#### Scale–Location



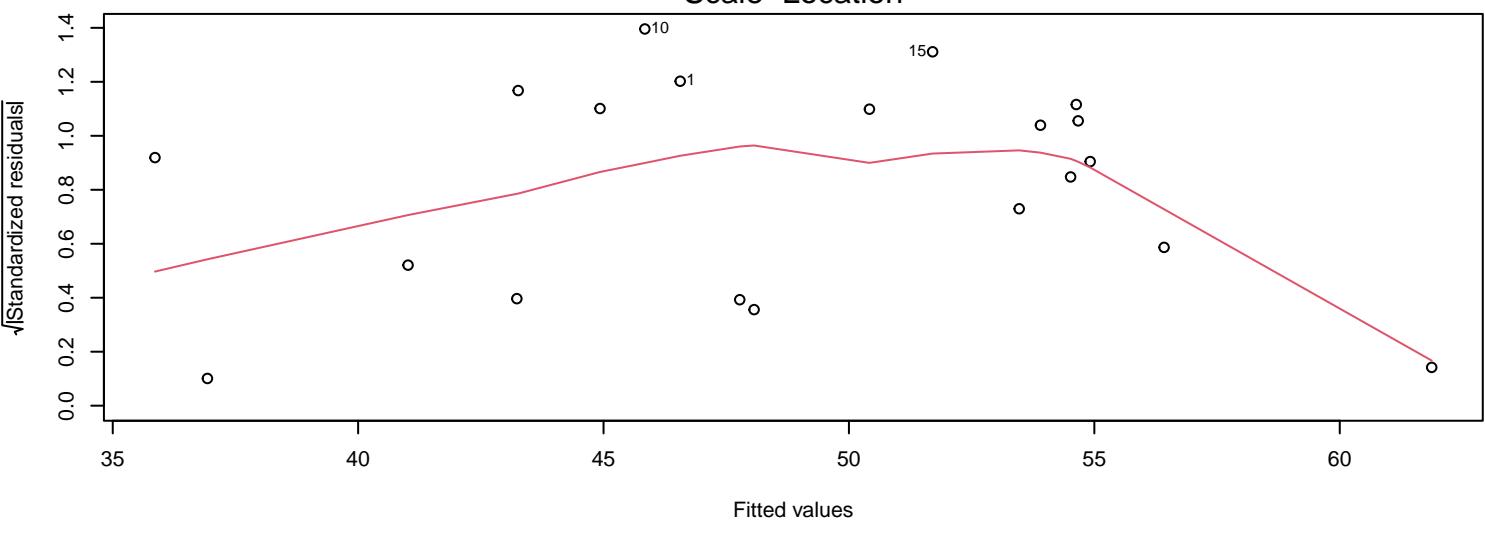
**Residuals vs Fitted: fss\_sum ~ cpet\_ve**  
Residuals vs Fitted



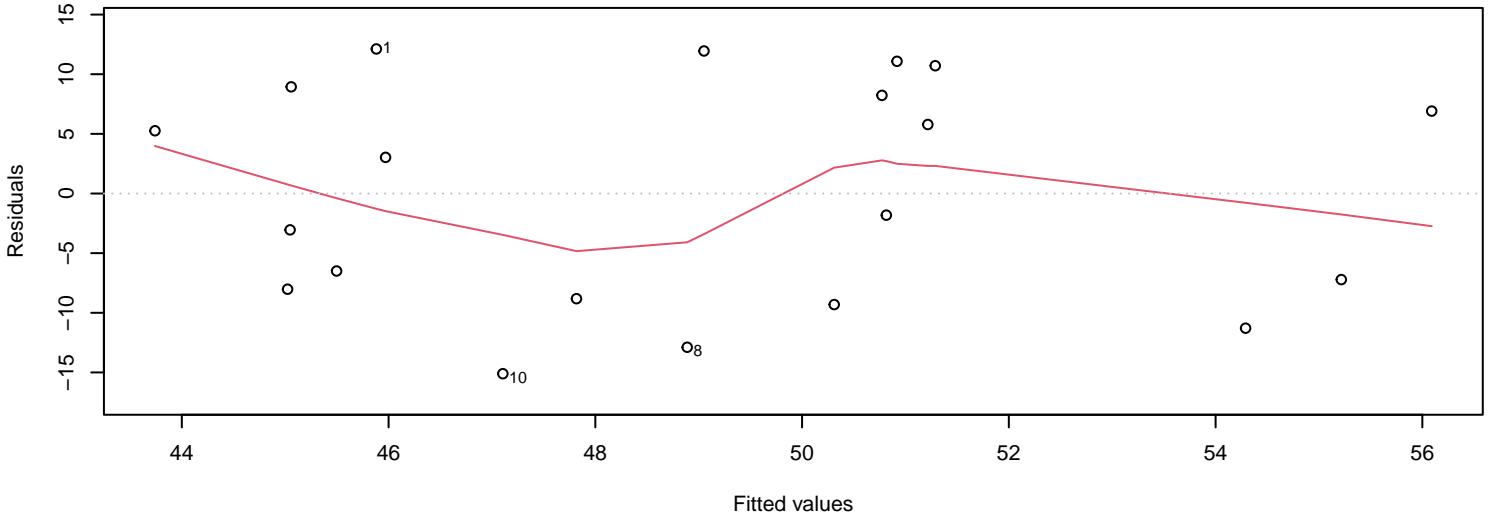
**Normal Q-Q: fss\_sum ~ cpet\_ve**  
Q-Q Residuals



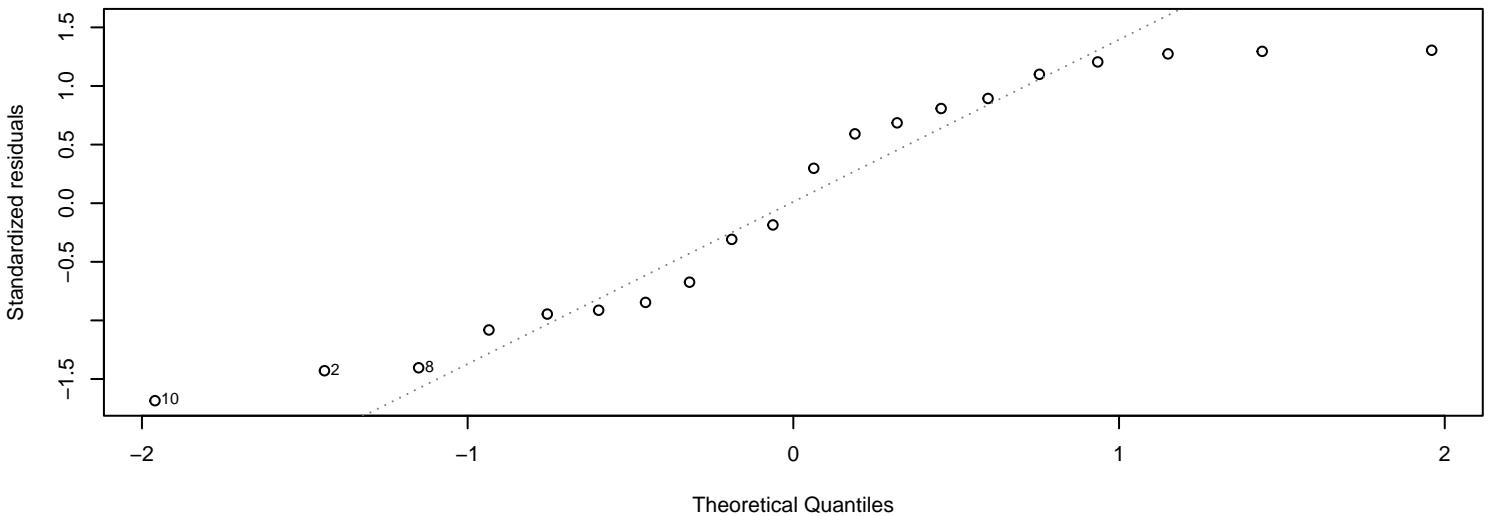
**Scale–Location: fss\_sum ~ cpet\_ve**  
Scale–Location



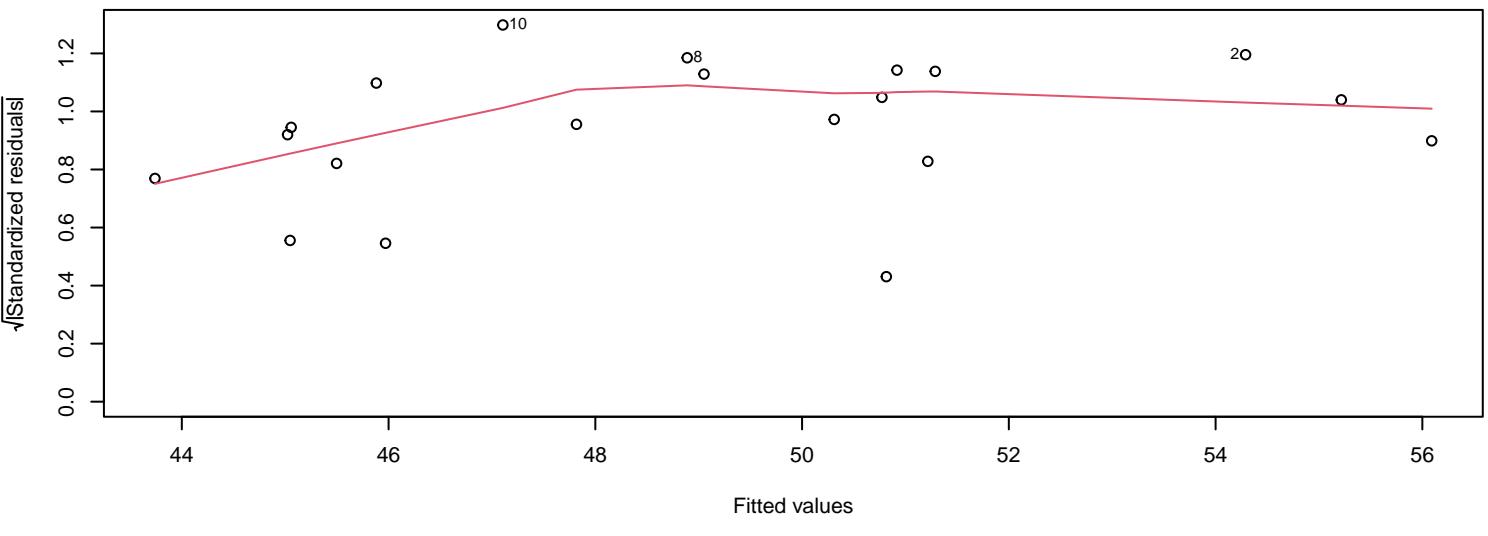
**Residuals vs Fitted: fss\_sum ~ cpet\_vt\_peak**  
Residuals vs Fitted



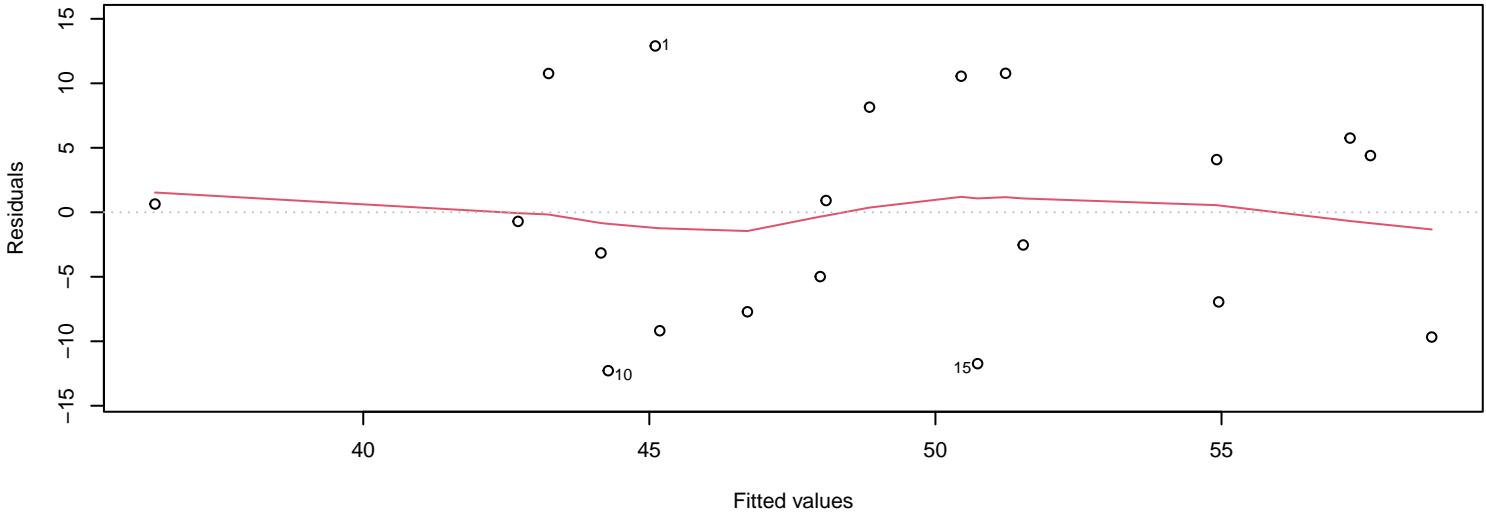
**Normal Q-Q: fss\_sum ~ cpet\_vt\_peak**  
Q-Q Residuals



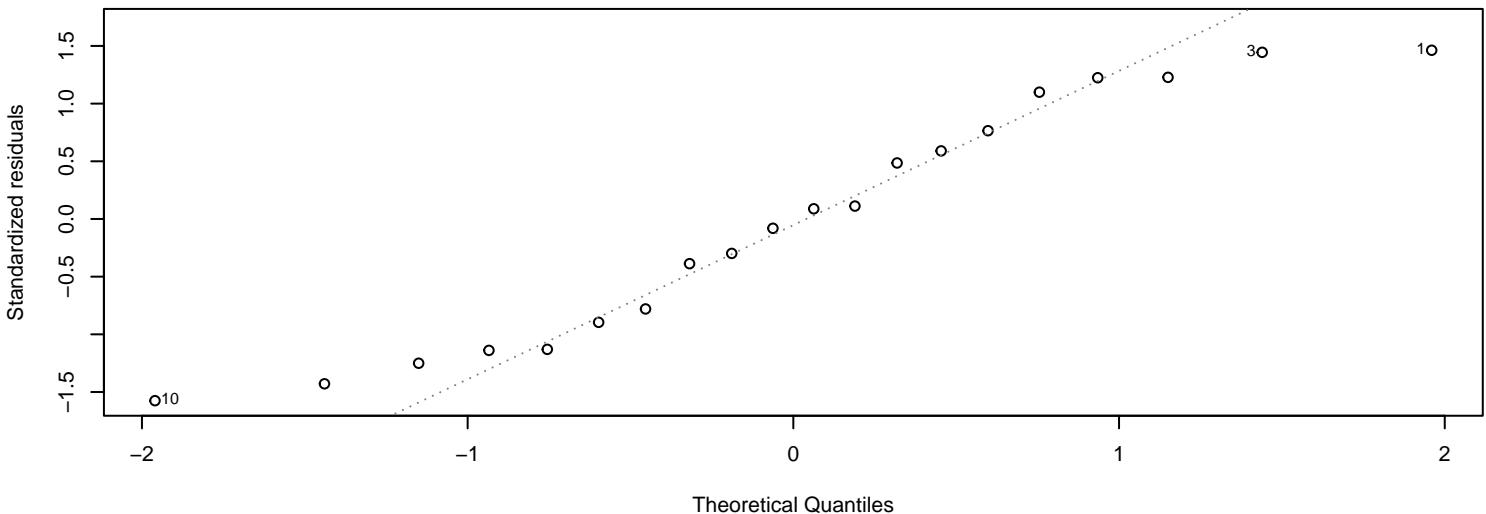
**Scale–Location: fss\_sum ~ cpet\_vt\_peak**  
Scale–Location



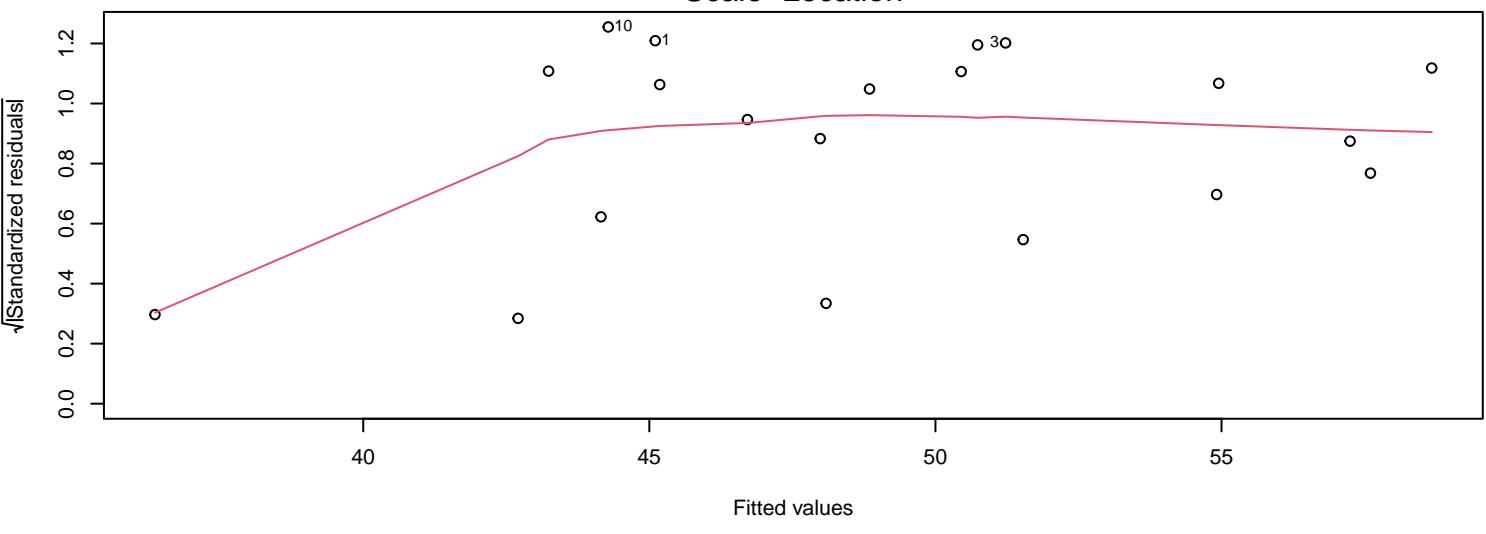
**Residuals vs Fitted: fss\_sum ~ cpet\_o2pulse**  
Residuals vs Fitted



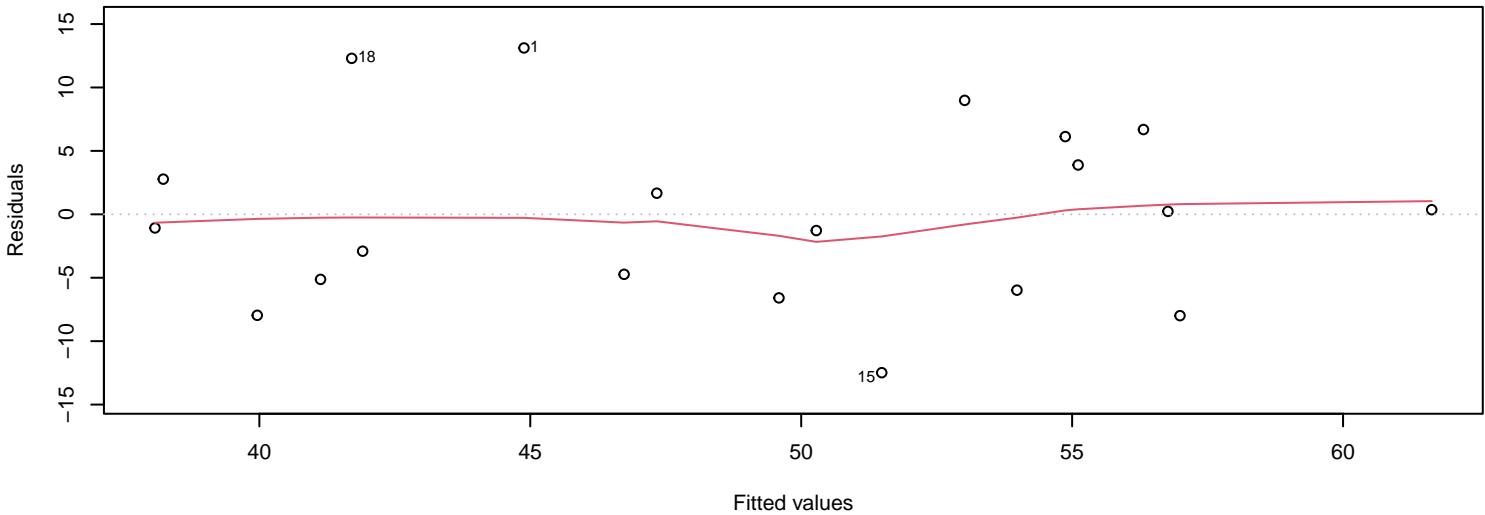
**Normal Q-Q: fss\_sum ~ cpet\_o2pulse**  
Q-Q Residuals



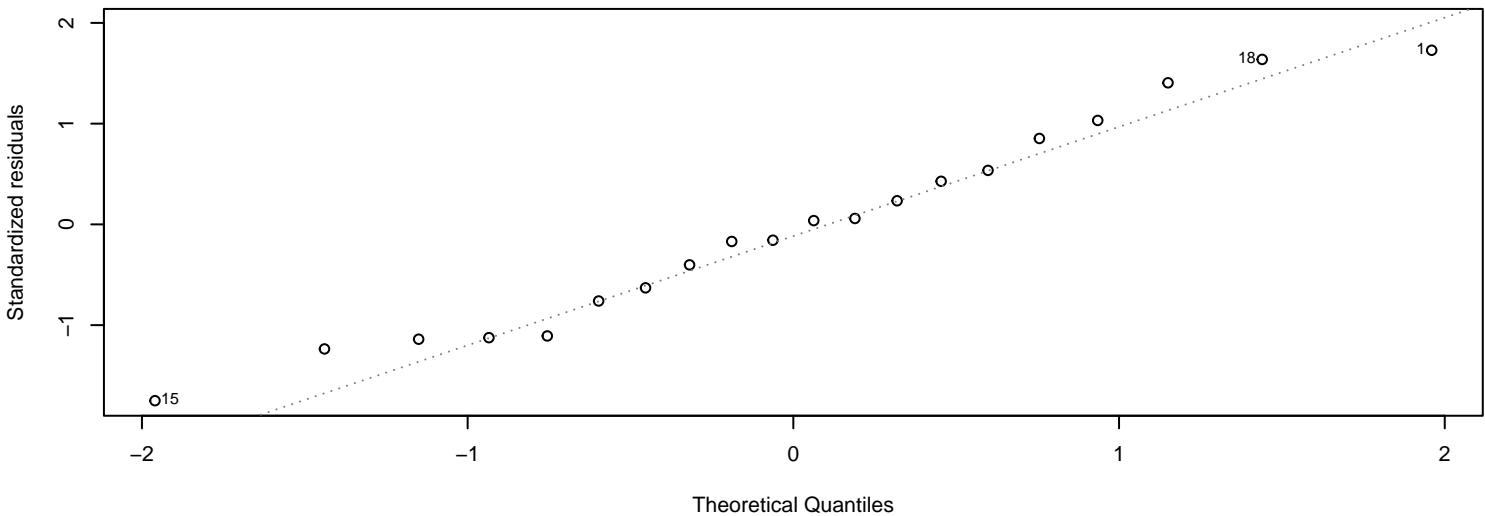
**Scale-Location: fss\_sum ~ cpet\_o2pulse**  
Scale-Location



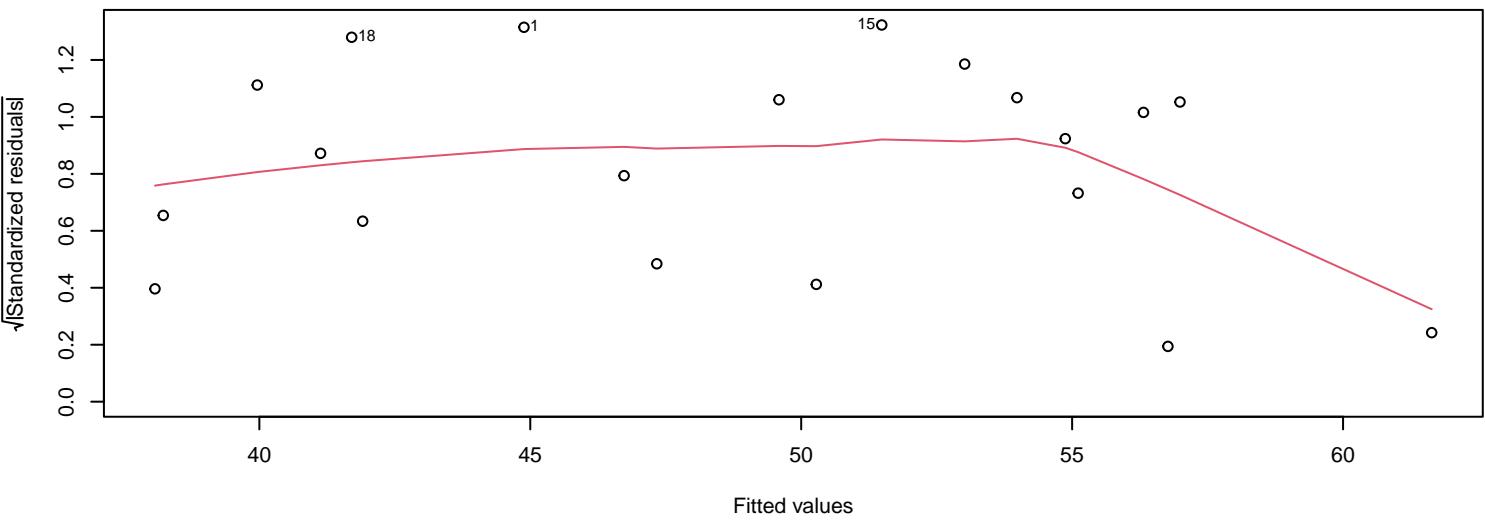
Residuals vs Fitted: fss\_sum ~ cpet\_vo2peak\_absolute  
Residuals vs Fitted



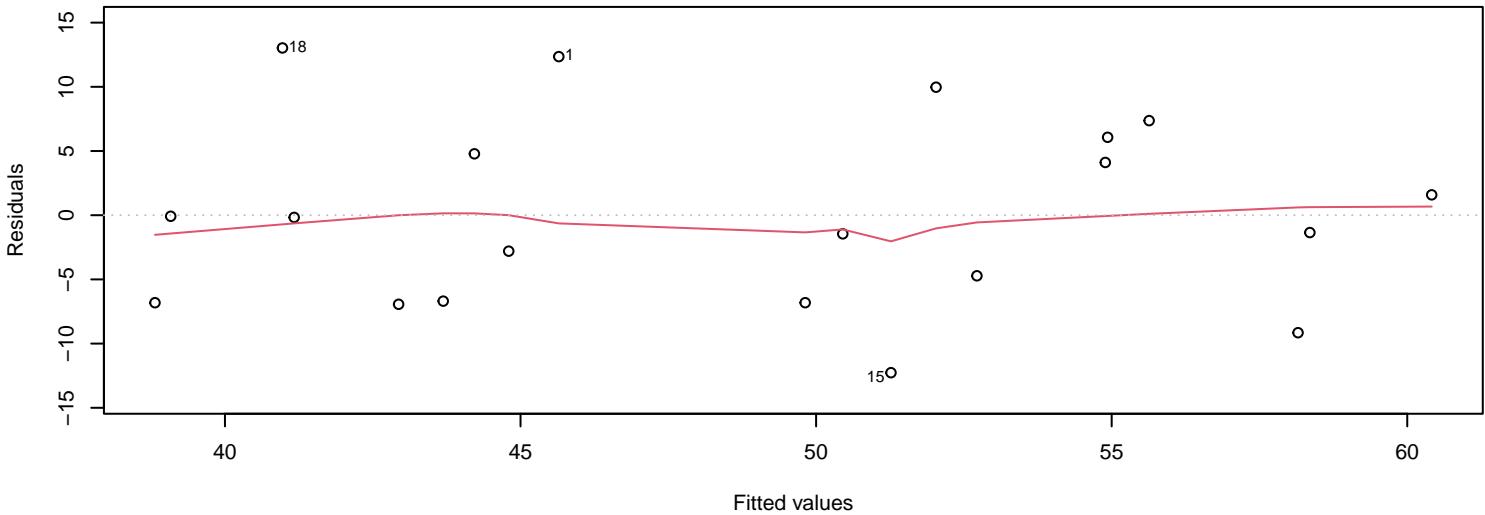
Normal Q–Q: fss\_sum ~ cpet\_vo2peak\_absolute  
Q–Q Residuals



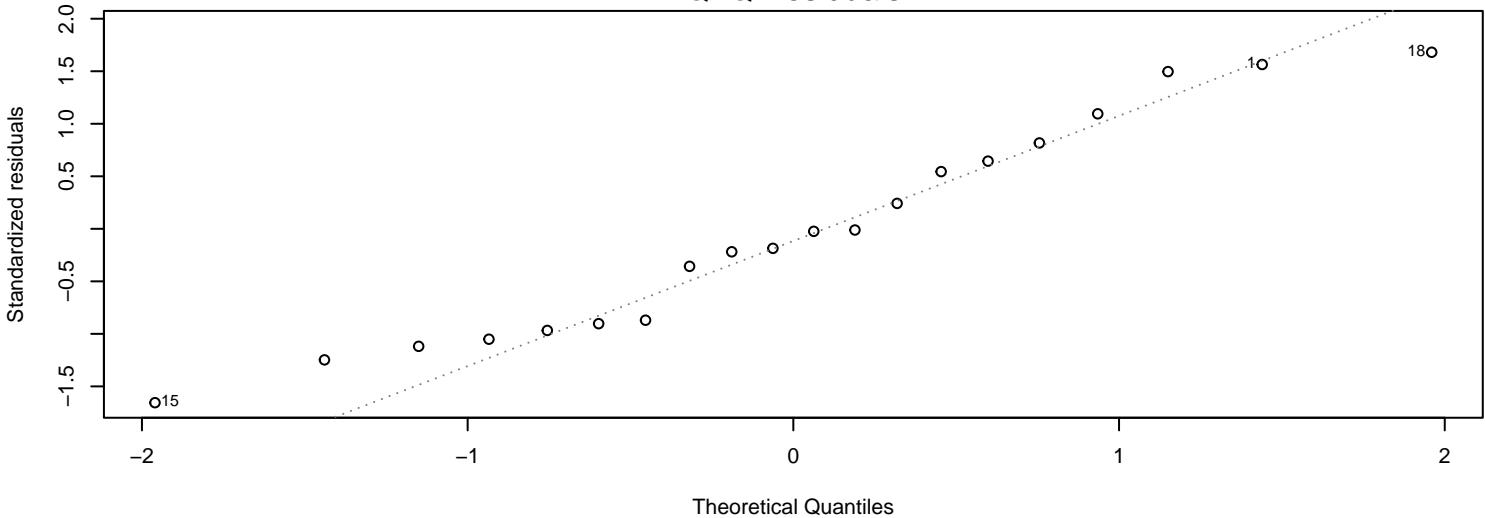
Scale–Location: fss\_sum ~ cpet\_vo2peak\_absolute  
Scale–Location



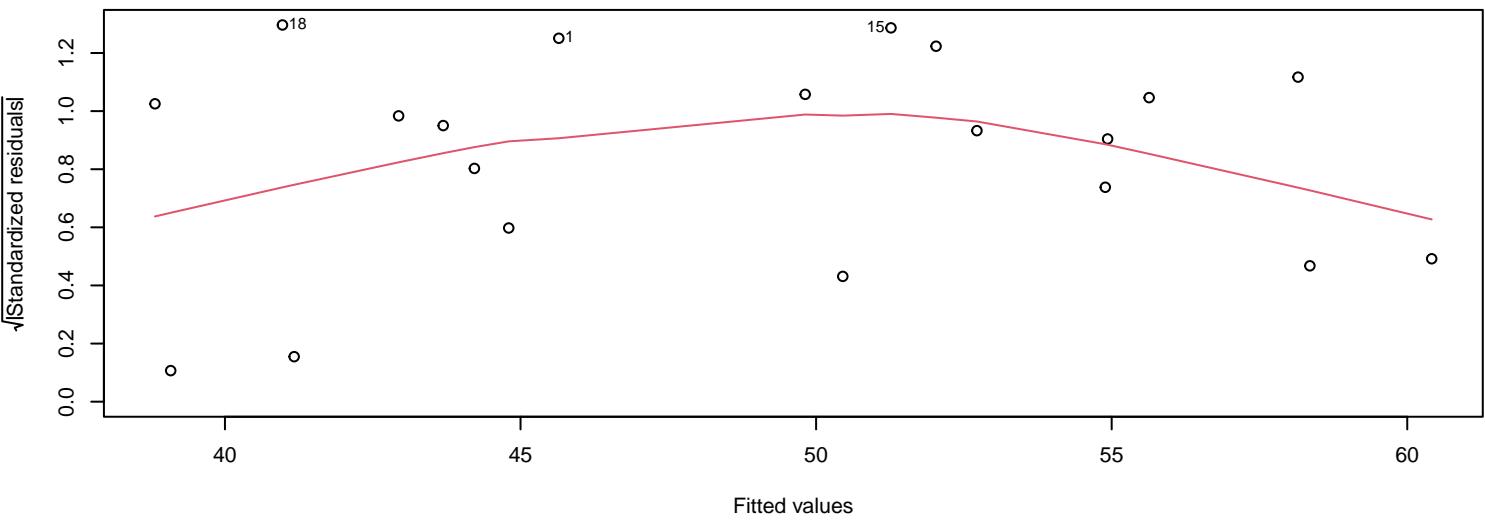
**Residuals vs Fitted: fss\_sum ~ cpet\_vo2peak\_relative**  
Residuals vs Fitted



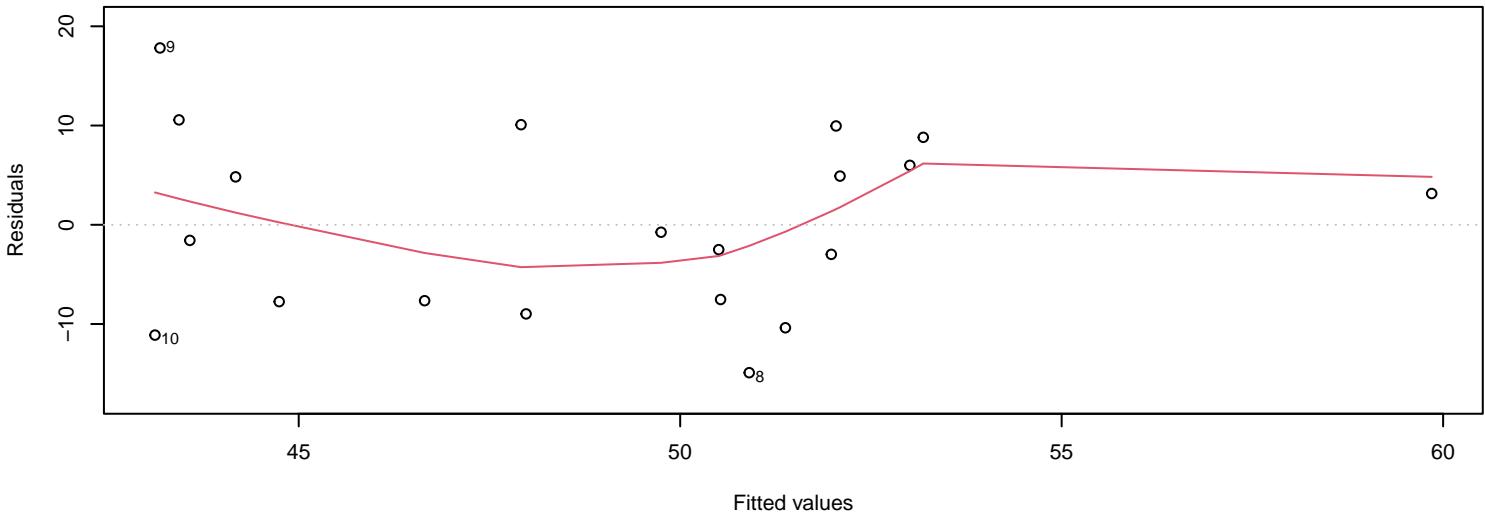
**Normal Q-Q: fss\_sum ~ cpet\_vo2peak\_relative**  
Q-Q Residuals



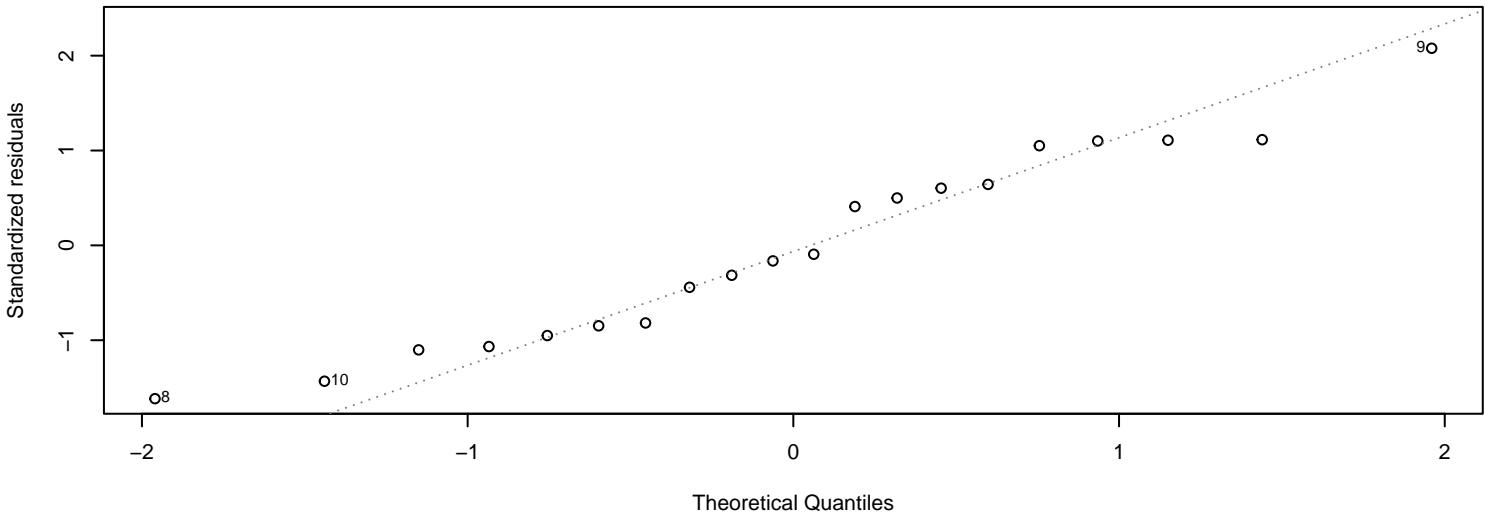
**Scale–Location: fss\_sum ~ cpet\_vo2peak\_relative**  
Scale–Location



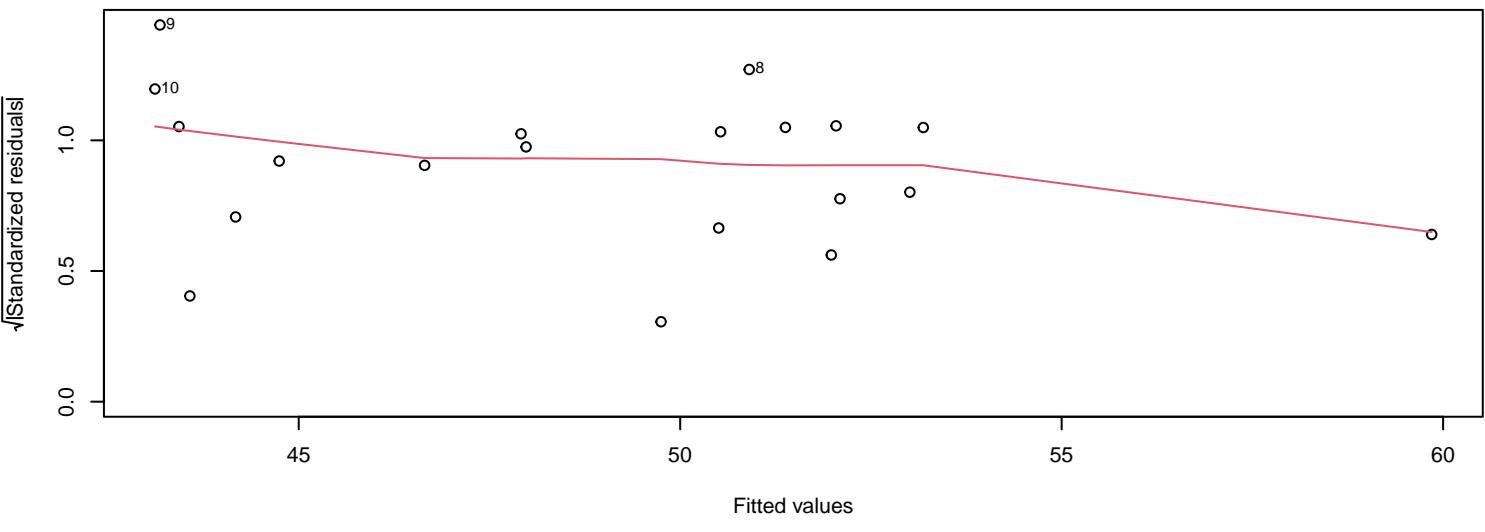
**Residuals vs Fitted: fss\_sum ~ fmd\_percent**  
Residuals vs Fitted



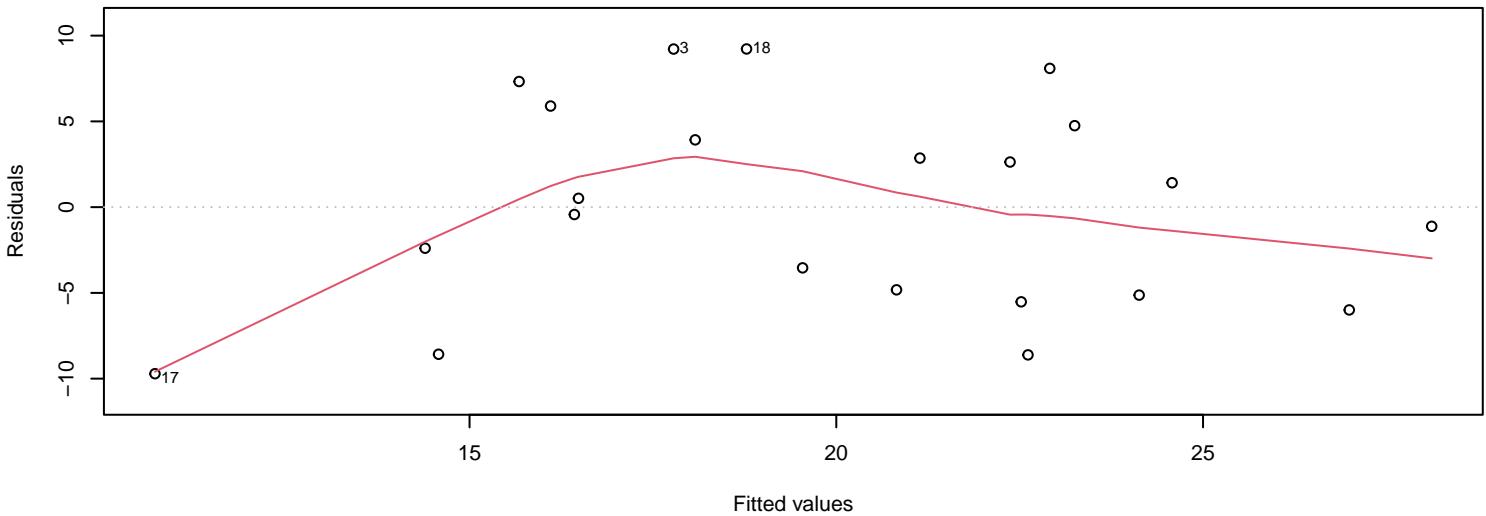
**Normal Q-Q: fss\_sum ~ fmd\_percent**  
Q-Q Residuals



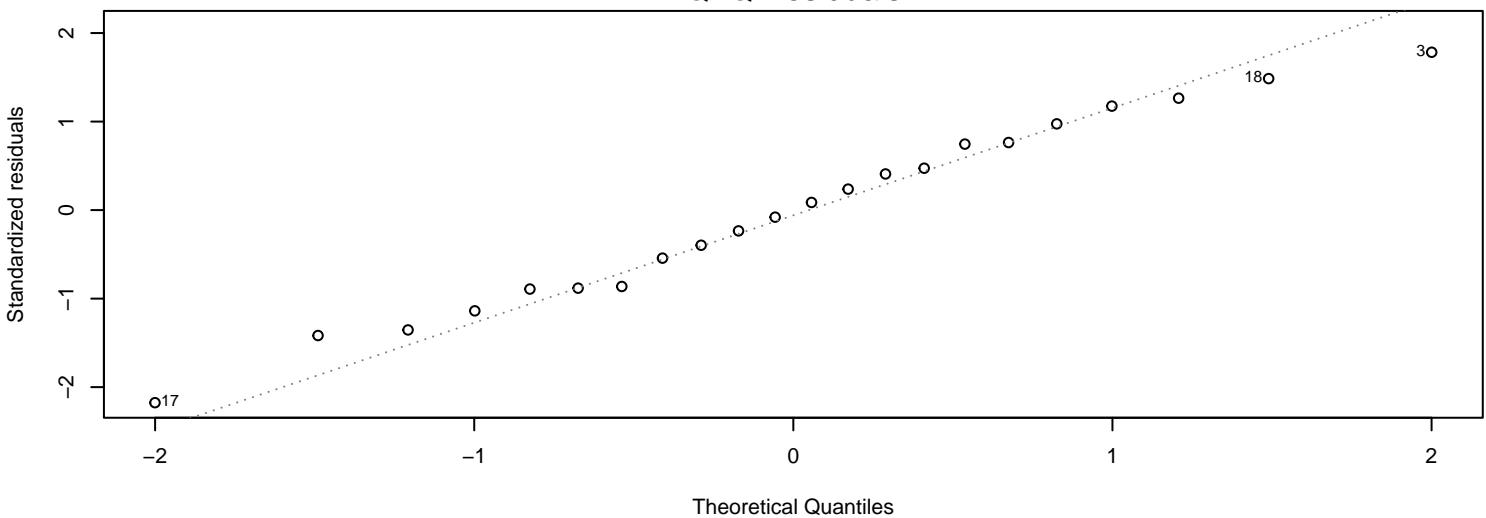
**Scale–Location: fss\_sum ~ fmd\_percent**  
Scale–Location



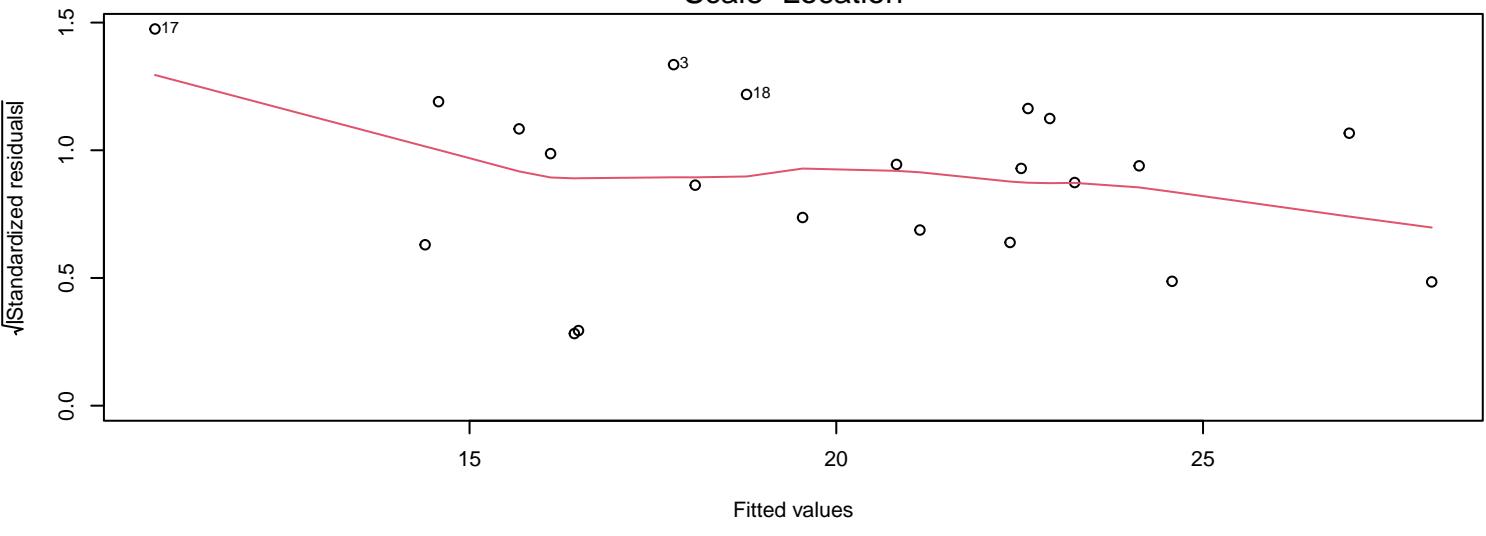
**Residuals vs Fitted: woods\_sum ~ mip\_pre\_max**  
Residuals vs Fitted



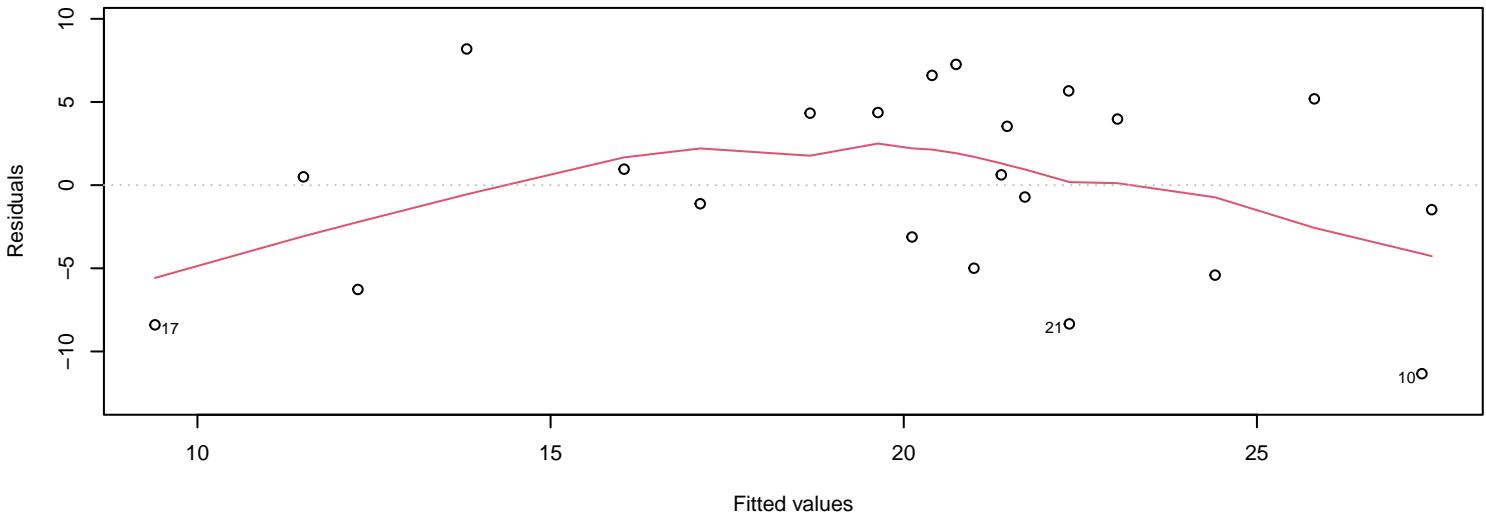
**Normal Q-Q: woods\_sum ~ mip\_pre\_max**  
Q-Q Residuals



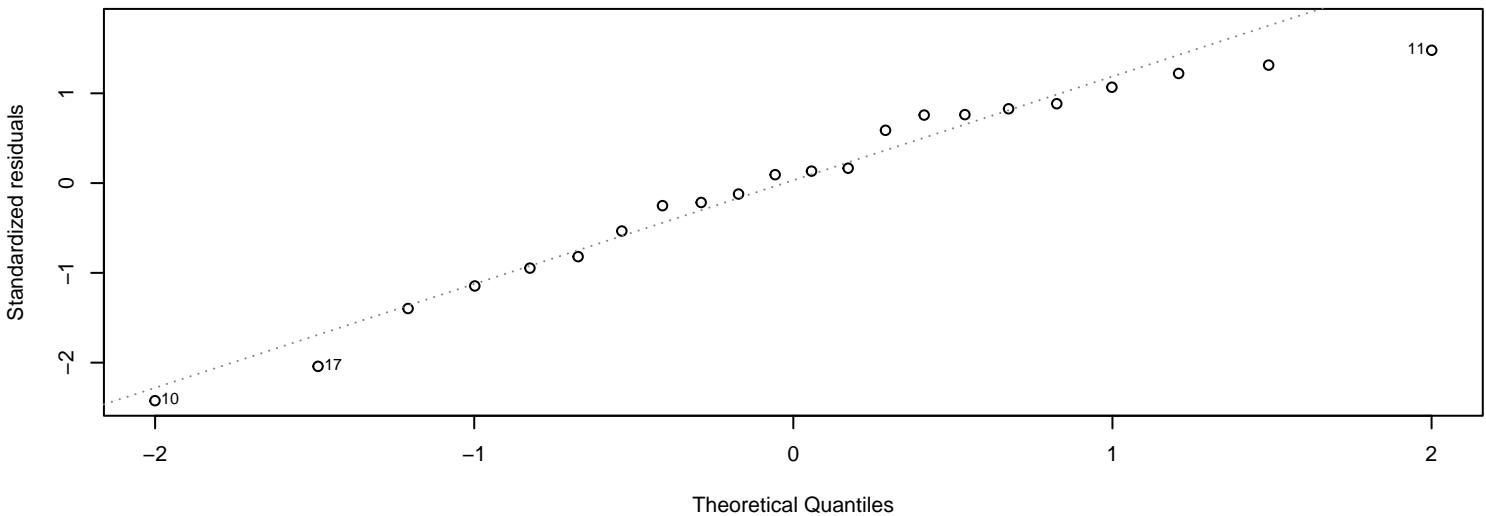
**Scale–Location: woods\_sum ~ mip\_pre\_max**  
Scale–Location



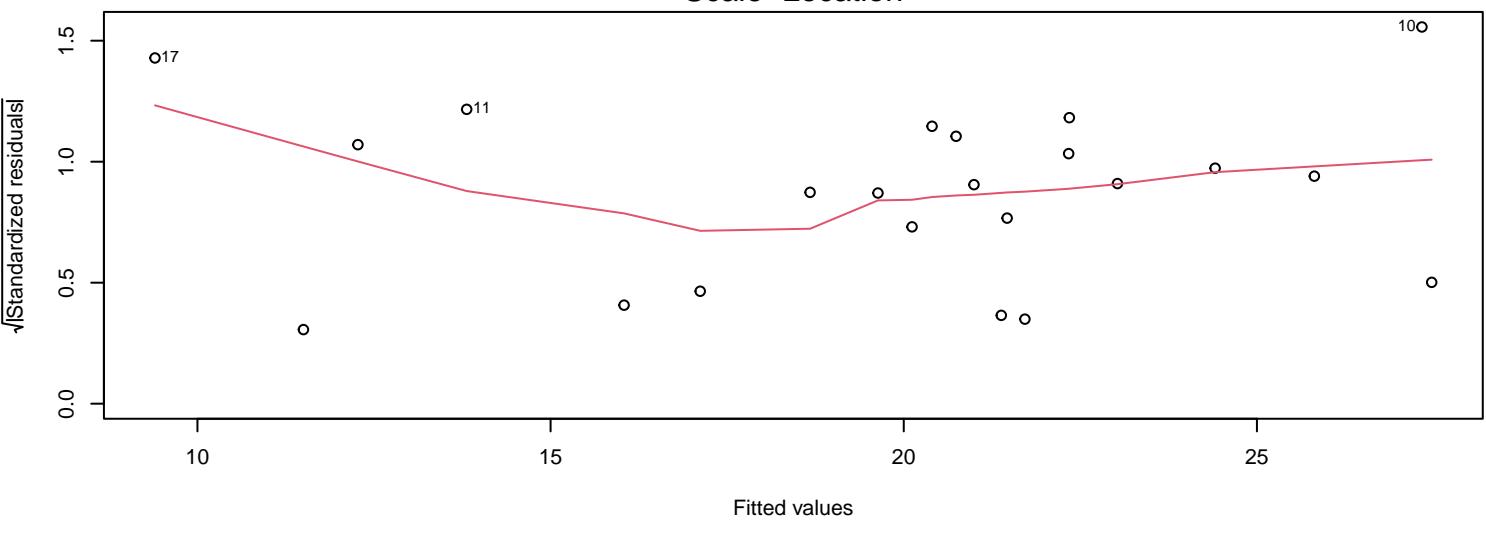
**Residuals vs Fitted: woods\_sum ~ smip\_pre\_max**  
Residuals vs Fitted



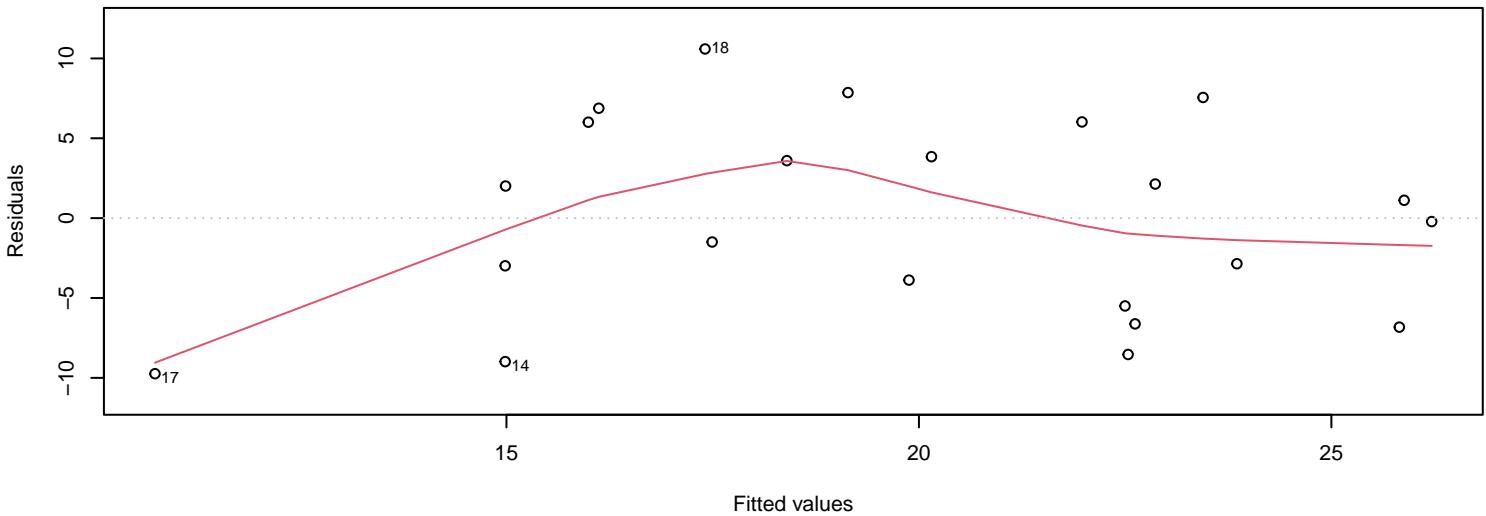
**Normal Q–Q: woods\_sum ~ smip\_pre\_max**  
Q–Q Residuals



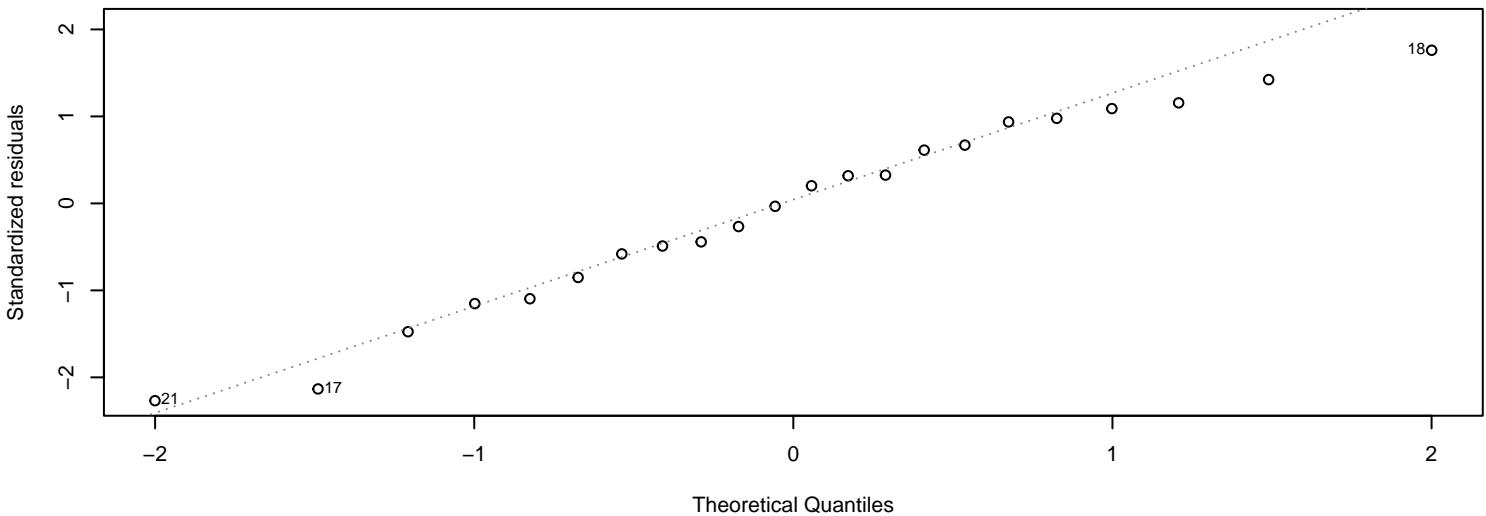
**Scale–Location: woods\_sum ~ smip\_pre\_max**  
Scale–Location



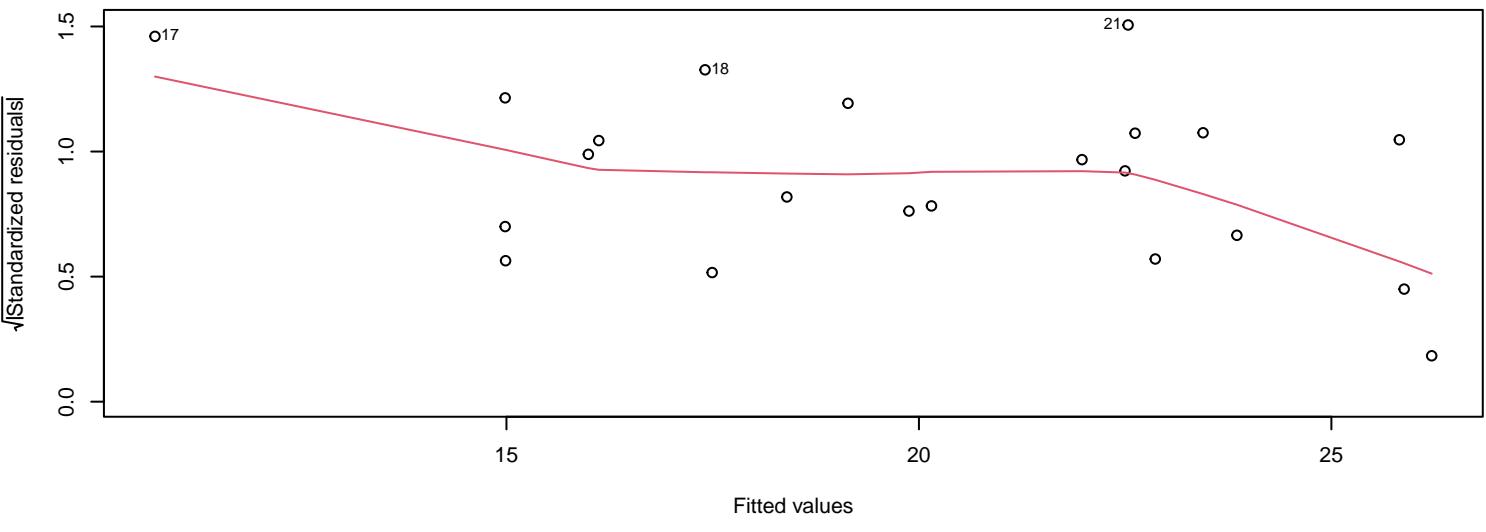
Residuals vs Fitted: woods\_sum ~ fit\_pre\_max  
Residuals vs Fitted



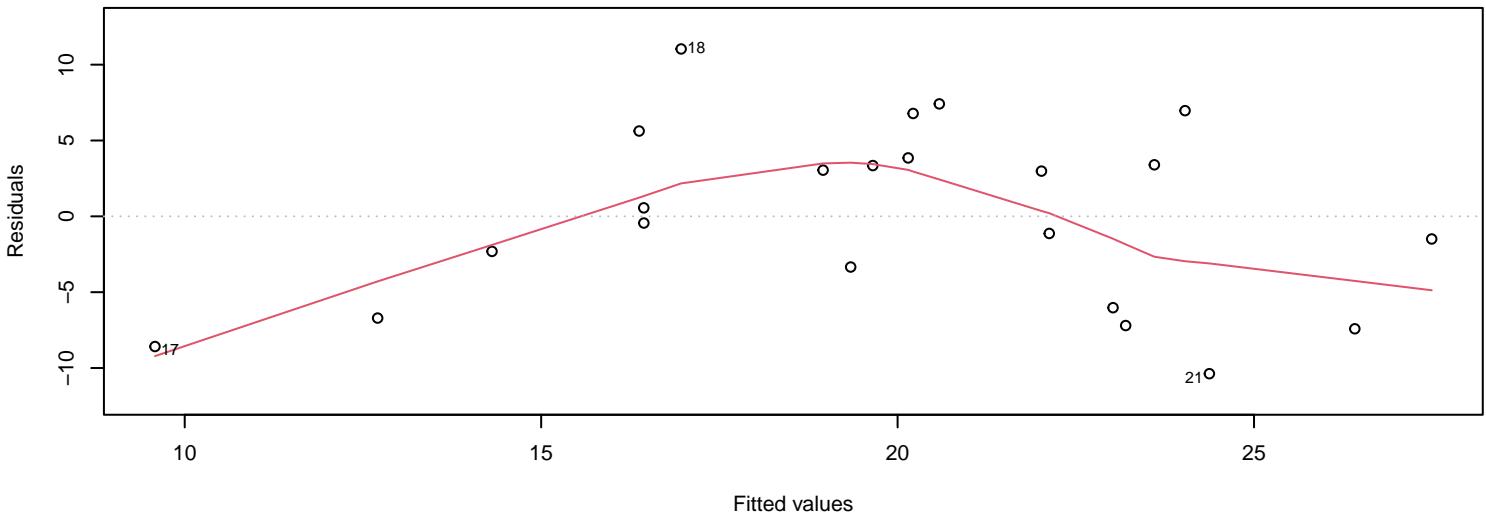
Normal Q-Q: woods\_sum ~ fit\_pre\_max  
Q-Q Residuals



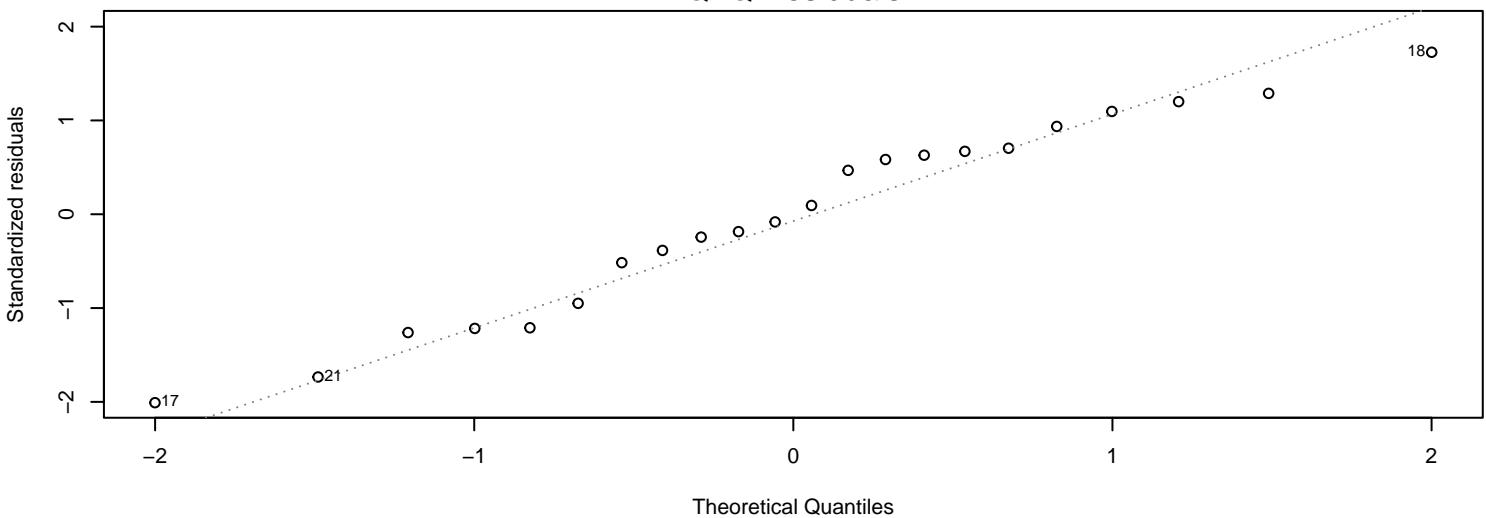
Scale-Location: woods\_sum ~ fit\_pre\_max  
Scale-Location



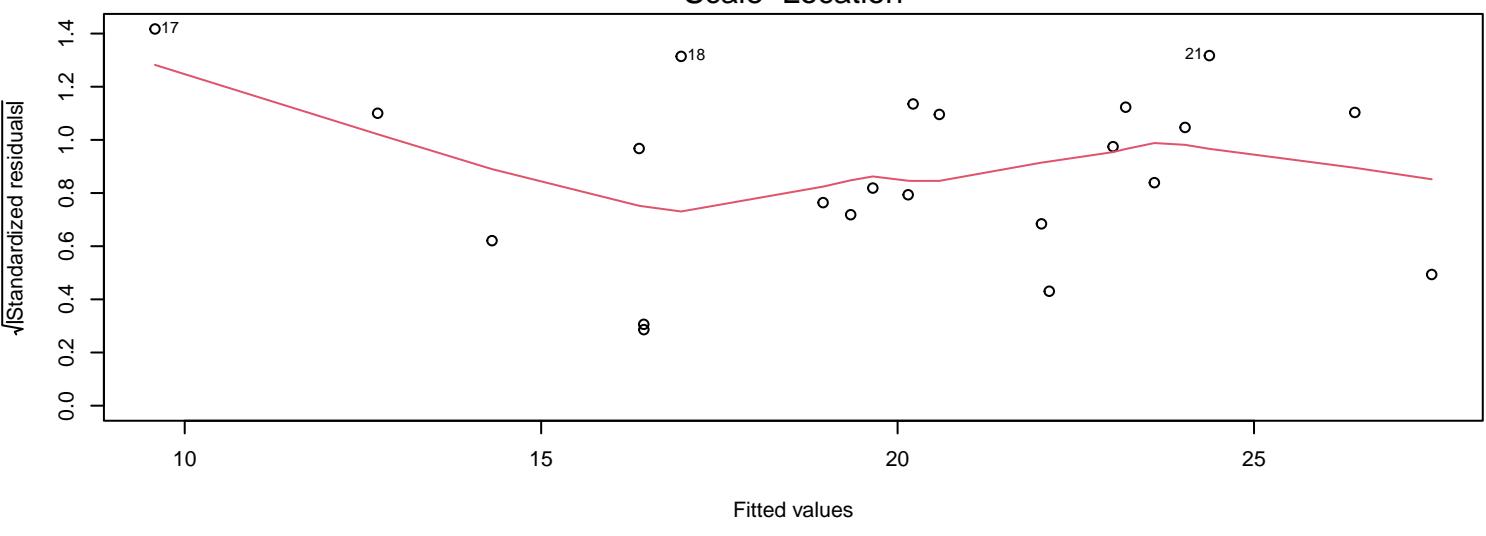
**Residuals vs Fitted: woods\_sum ~ pif\_pre\_max**  
Residuals vs Fitted



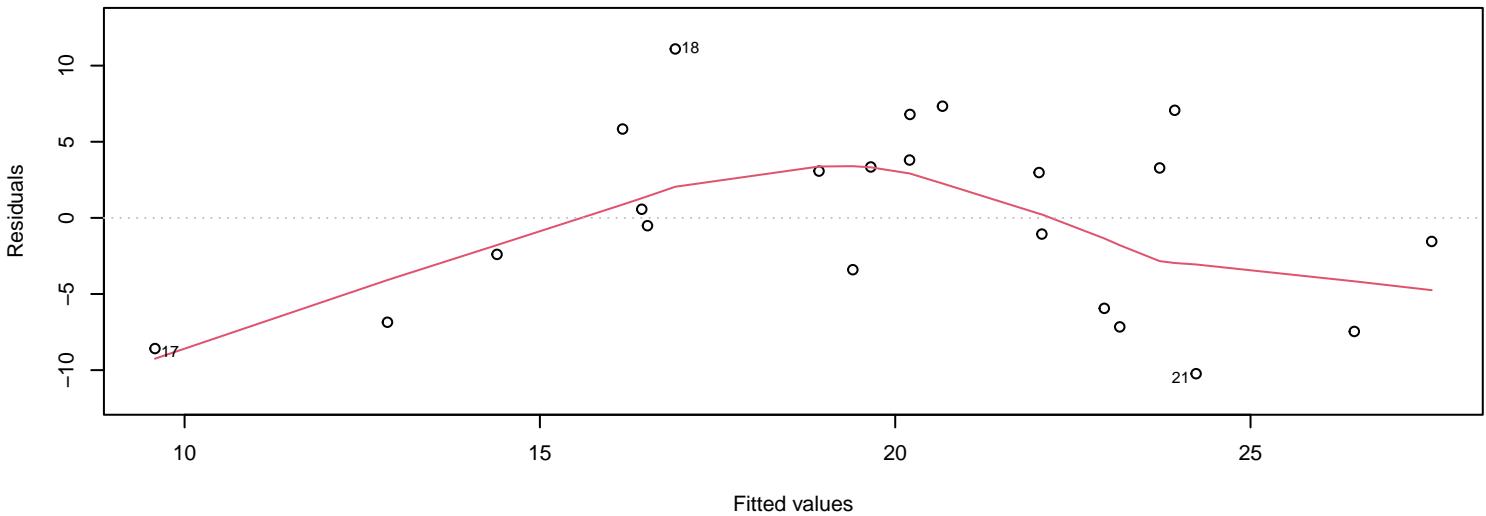
**Normal Q-Q: woods\_sum ~ pif\_pre\_max**  
Q-Q Residuals



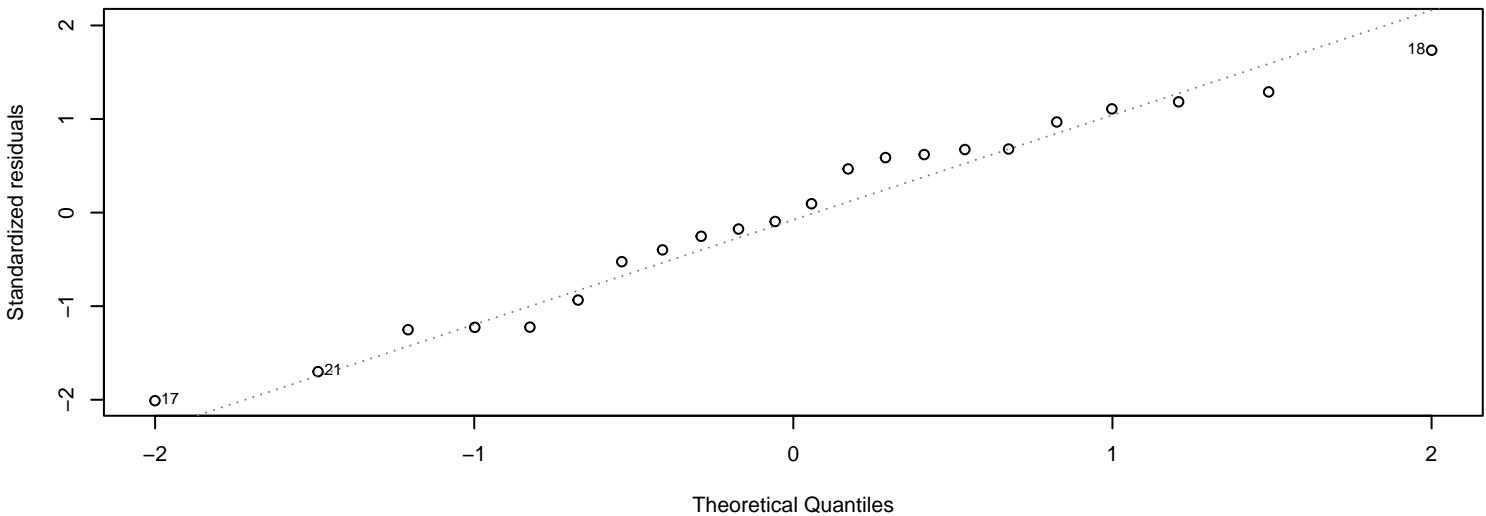
**Scale–Location: woods\_sum ~ pif\_pre\_max**  
Scale–Location



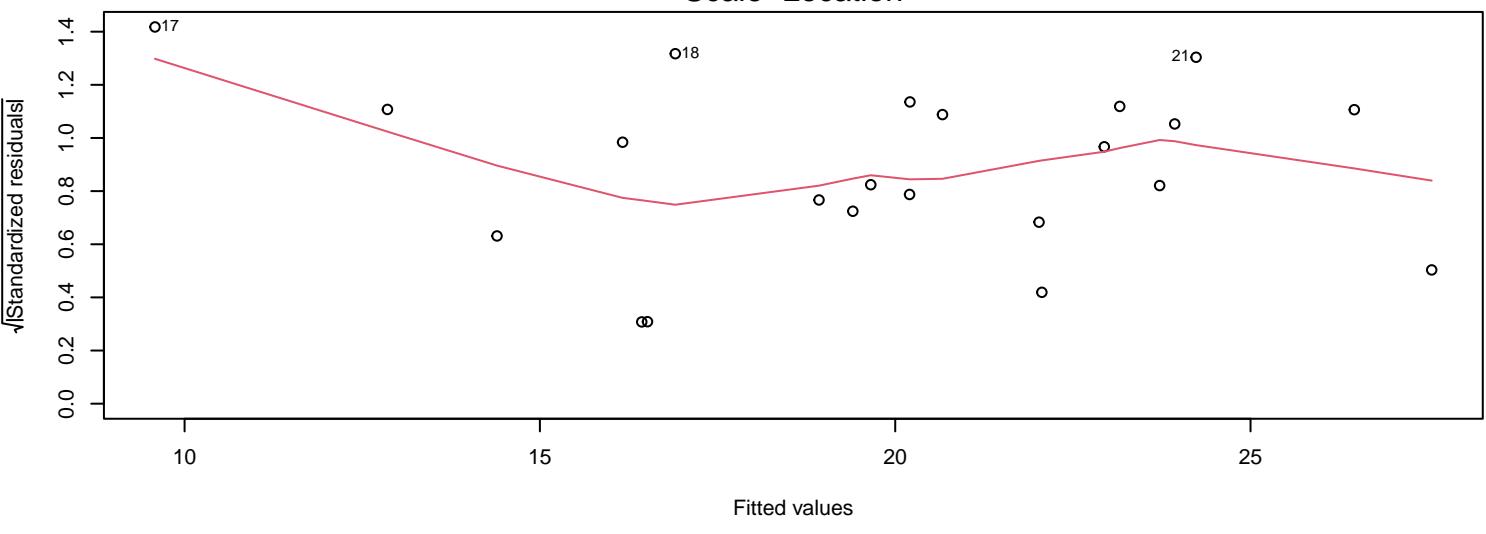
**Residuals vs Fitted: woods\_sum ~ sindex\_pre\_max**  
Residuals vs Fitted



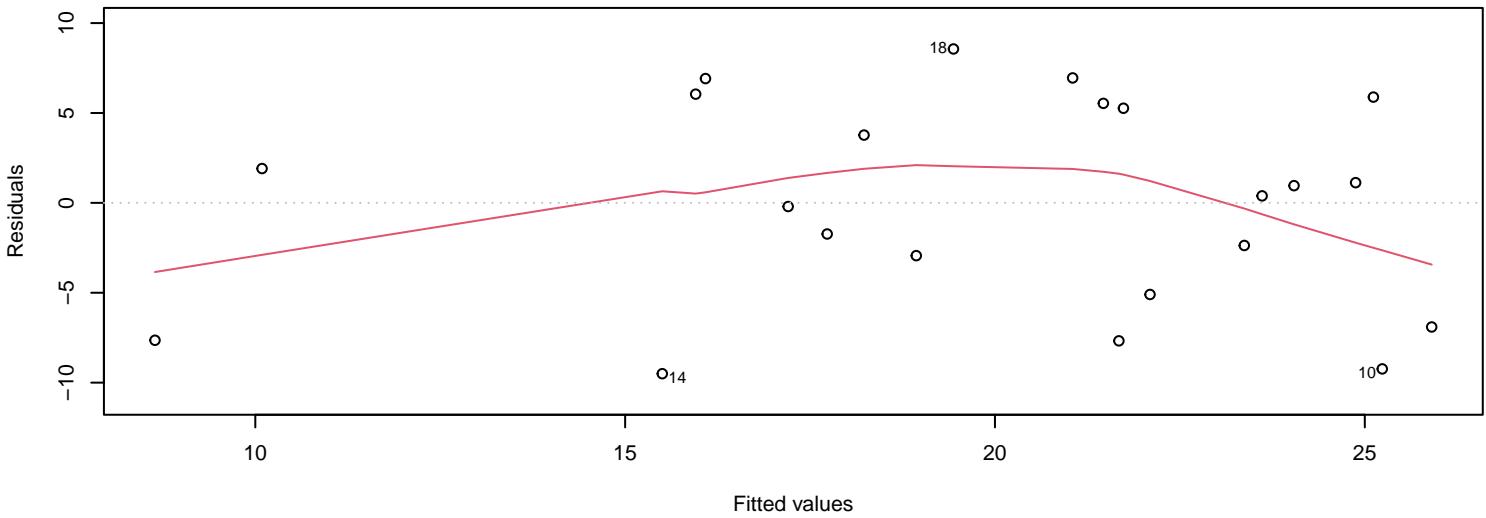
**Normal Q-Q: woods\_sum ~ sindex\_pre\_max**  
Q-Q Residuals



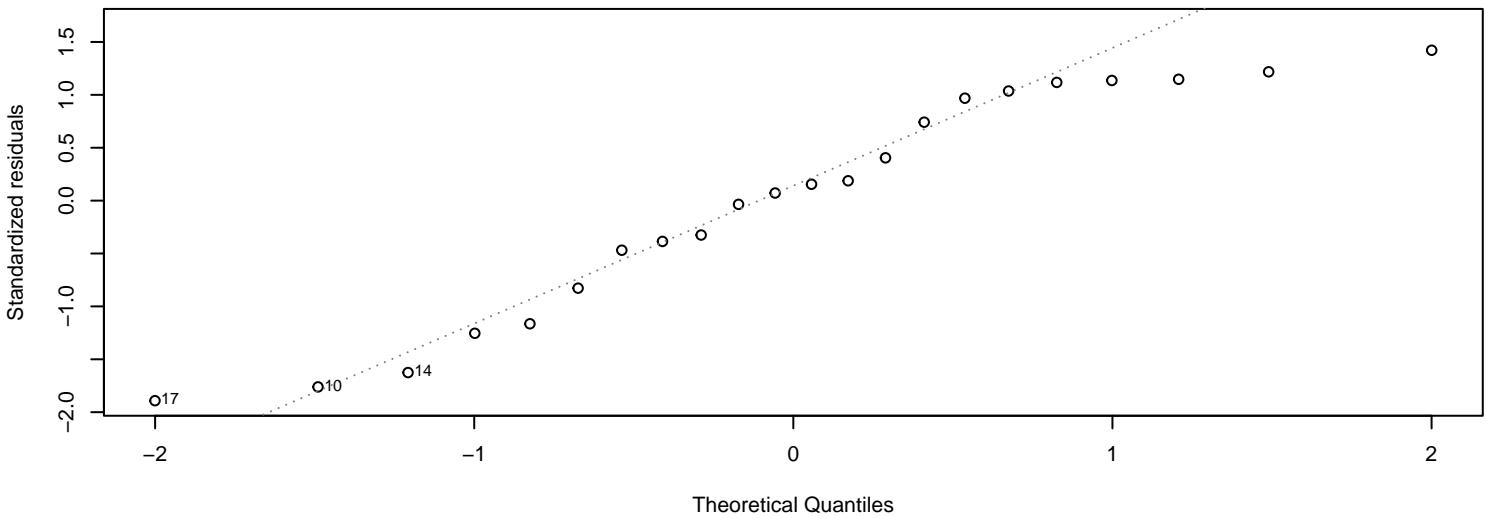
**Scale–Location: woods\_sum ~ sindex\_pre\_max**  
Scale–Location



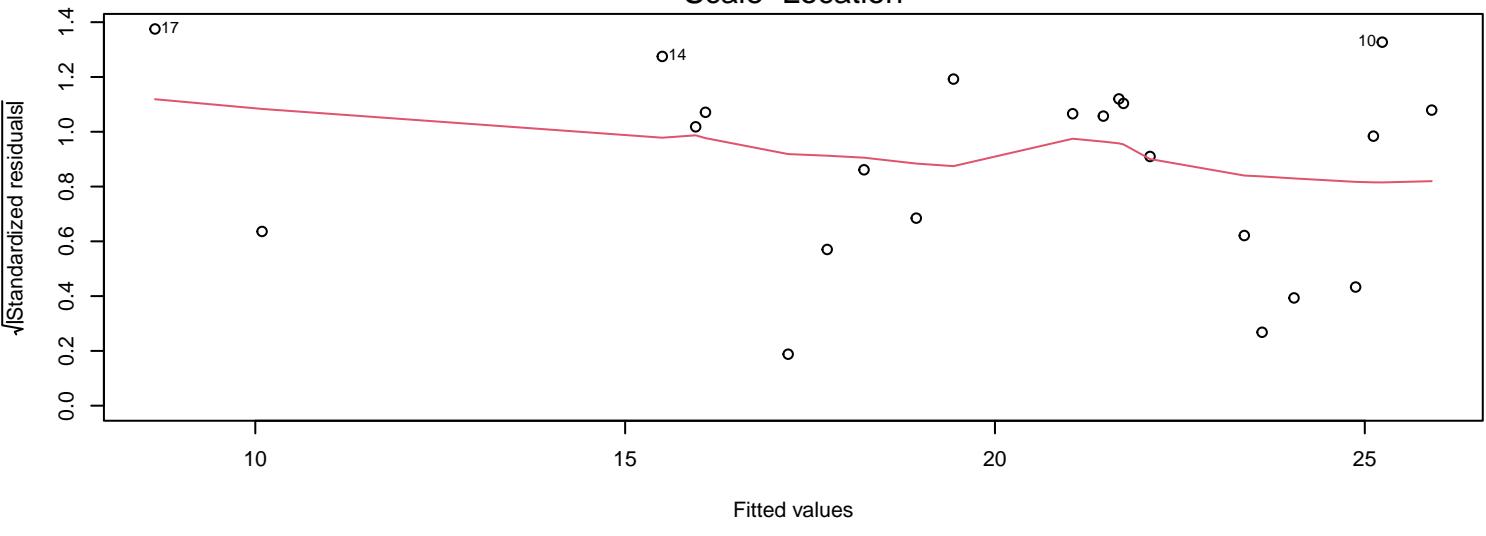
**Residuals vs Fitted: woods\_sum ~ volume\_pre\_max**  
Residuals vs Fitted



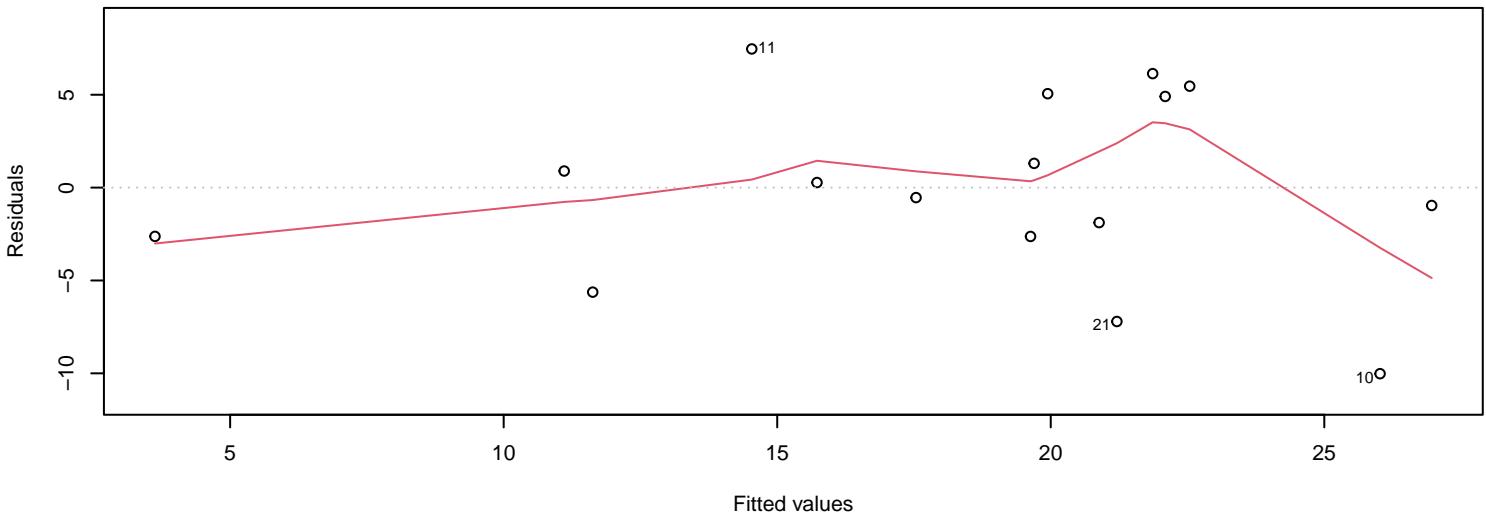
**Normal Q-Q: woods\_sum ~ volume\_pre\_max**  
Q-Q Residuals



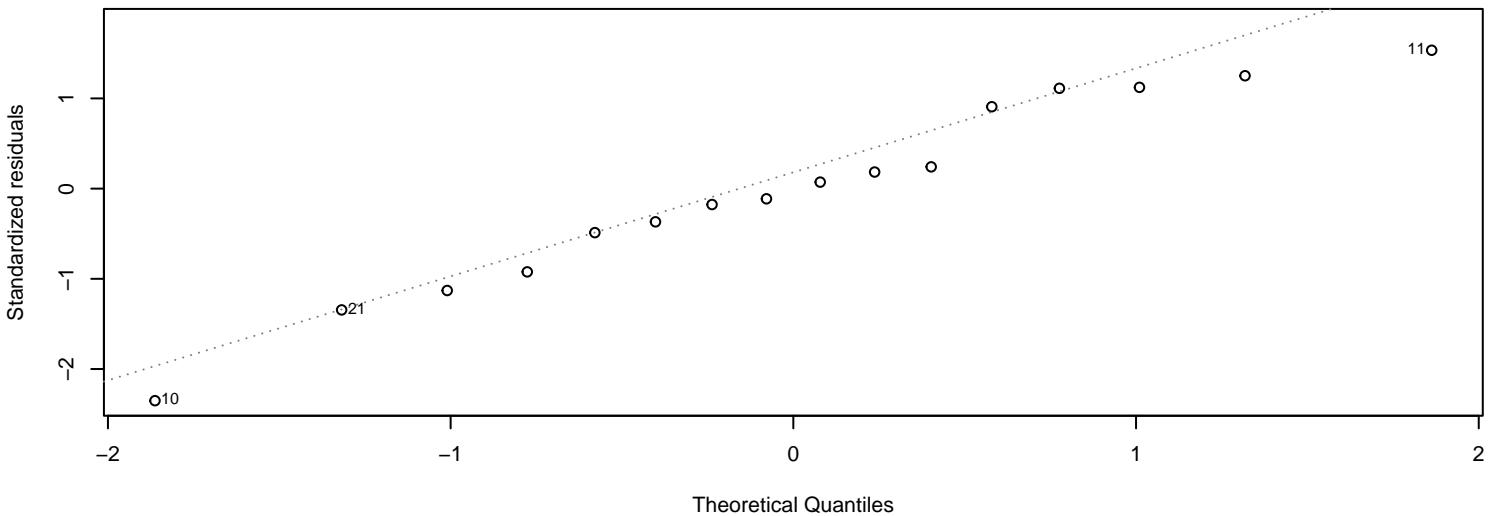
**Scale–Location: woods\_sum ~ volume\_pre\_max**  
Scale–Location



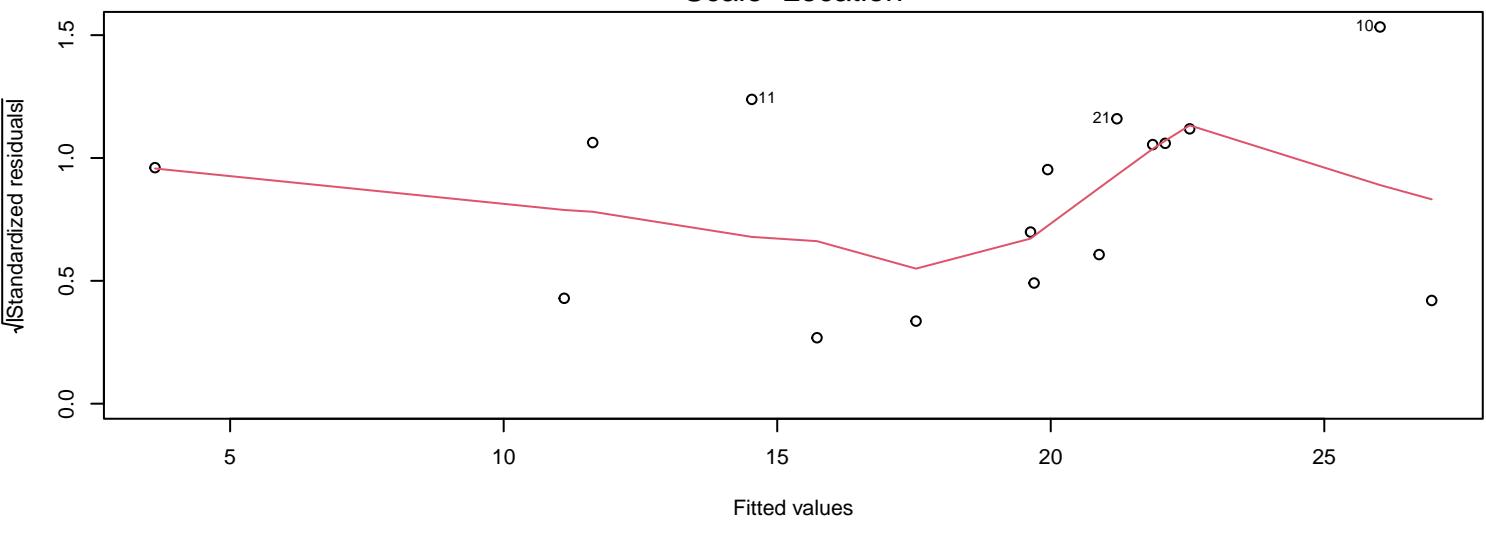
**Residuals vs Fitted: woods\_sum ~ id\_pre\_max**  
Residuals vs Fitted



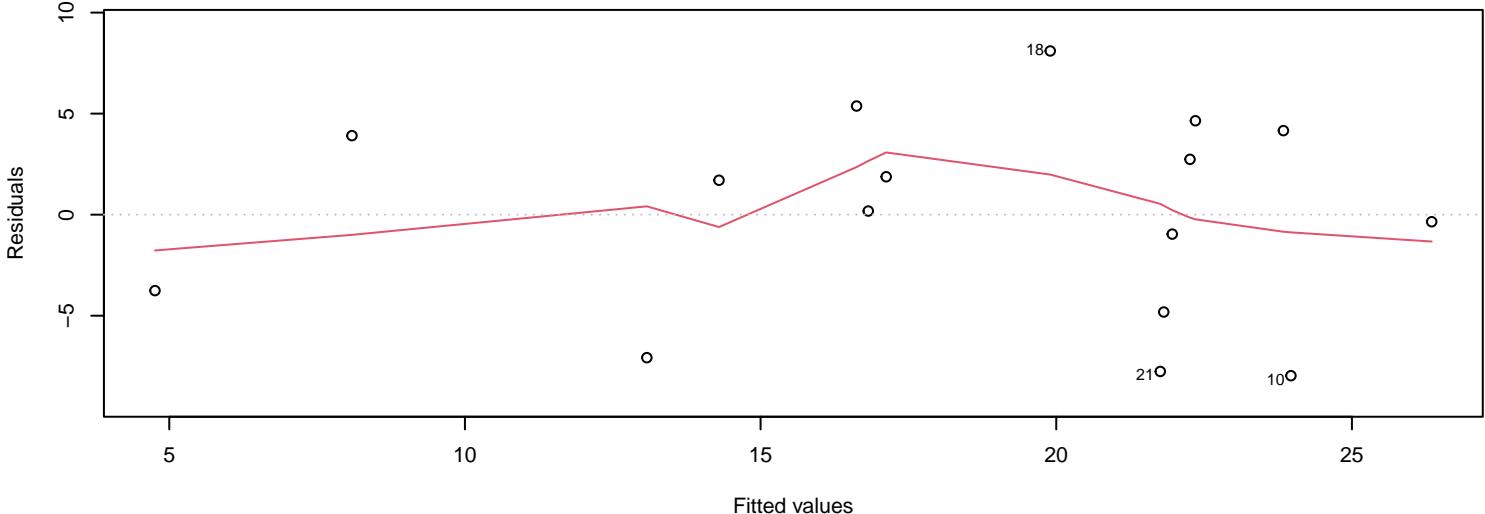
**Normal Q–Q: woods\_sum ~ id\_pre\_max**  
Q–Q Residuals



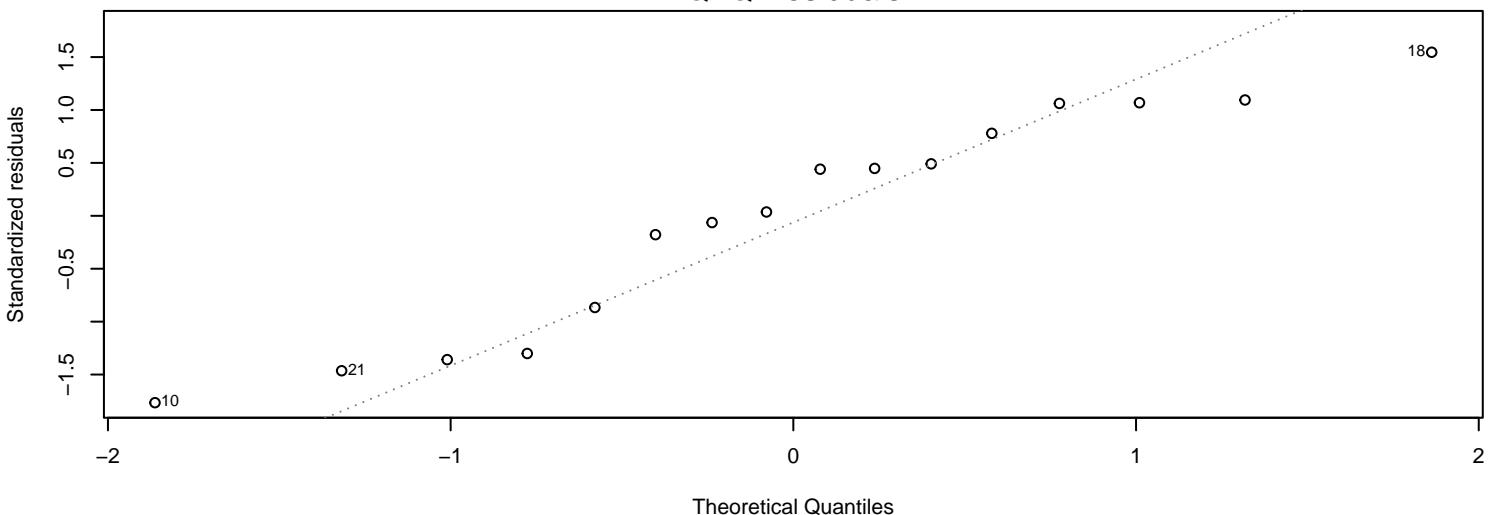
**Scale–Location: woods\_sum ~ id\_pre\_max**  
Scale–Location



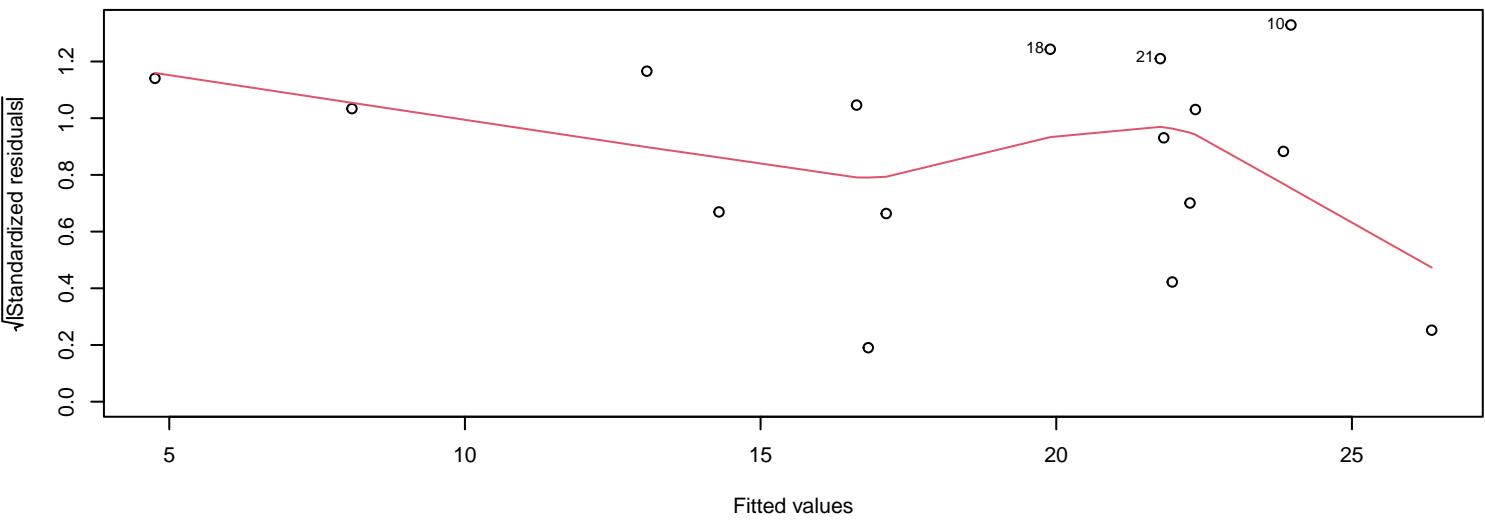
**Residuals vs Fitted: woods\_sum ~ slopesmip\_pre\_max**  
Residuals vs Fitted



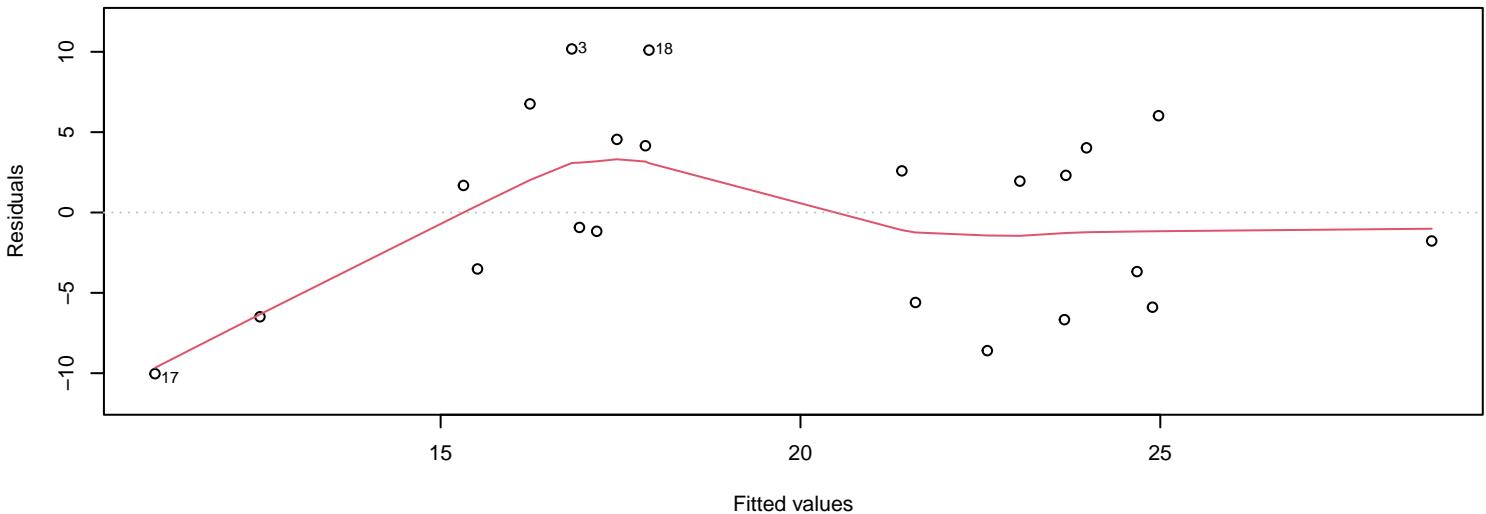
**Normal Q–Q: woods\_sum ~ slopesmip\_pre\_max**  
Q–Q Residuals



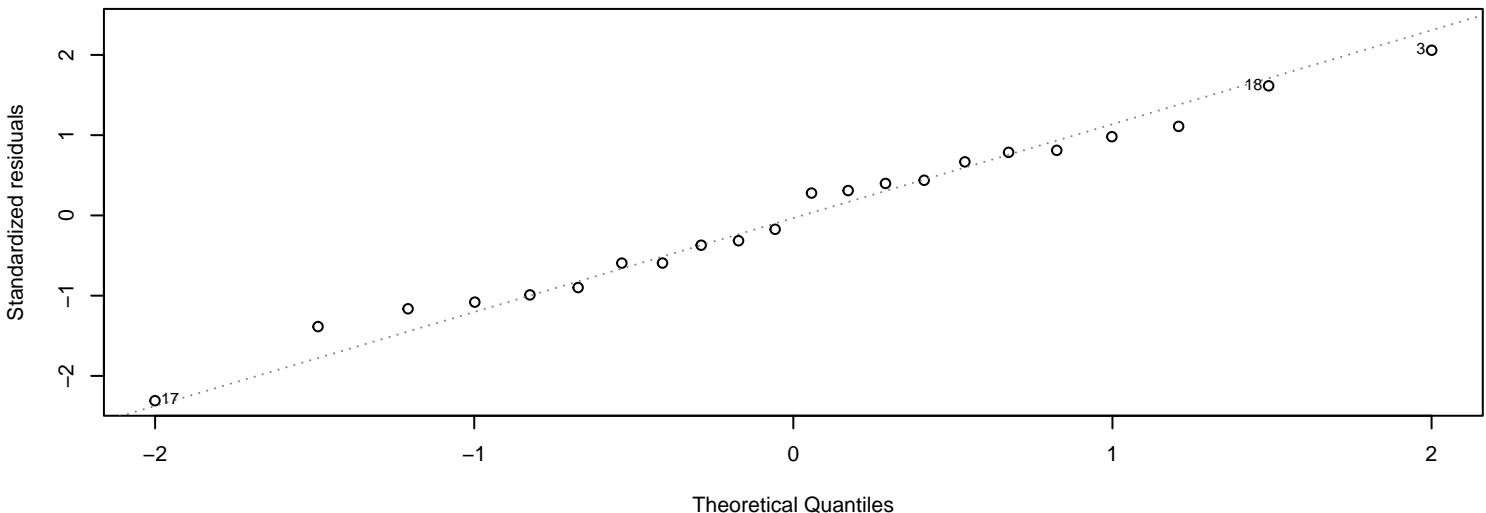
**Scale–Location: woods\_sum ~ slopesmip\_pre\_max**  
Scale–Location



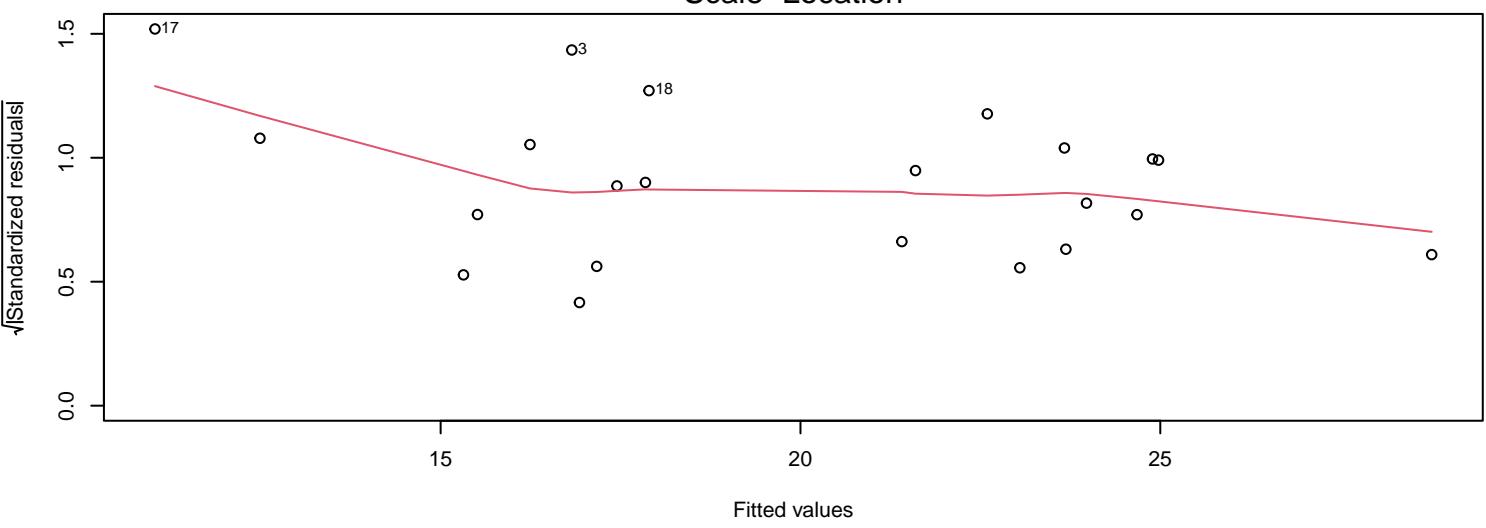
**Residuals vs Fitted: woods\_sum ~ mip\_post\_max**  
Residuals vs Fitted



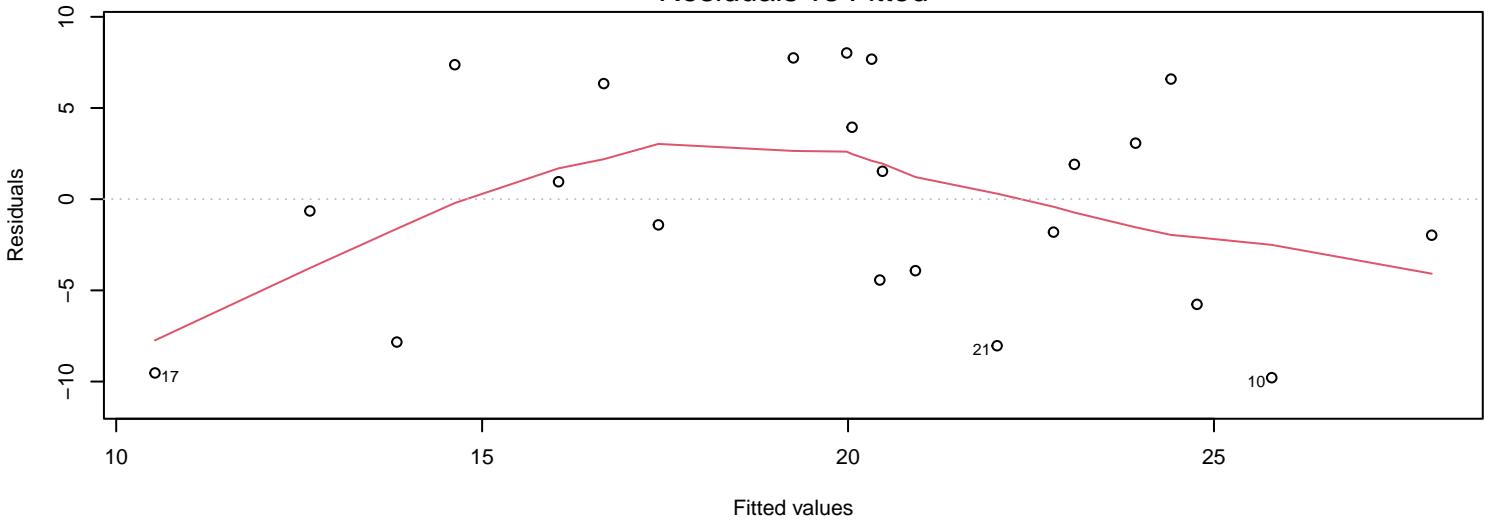
**Normal Q–Q: woods\_sum ~ mip\_post\_max**  
Q–Q Residuals



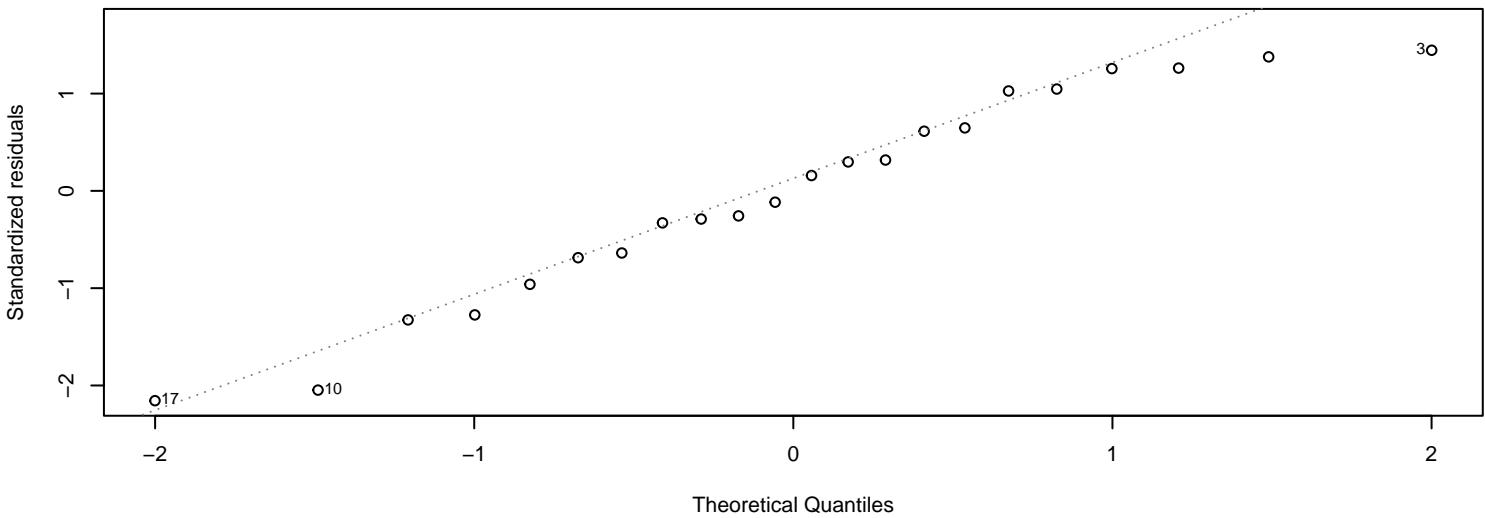
**Scale–Location: woods\_sum ~ mip\_post\_max**  
Scale–Location



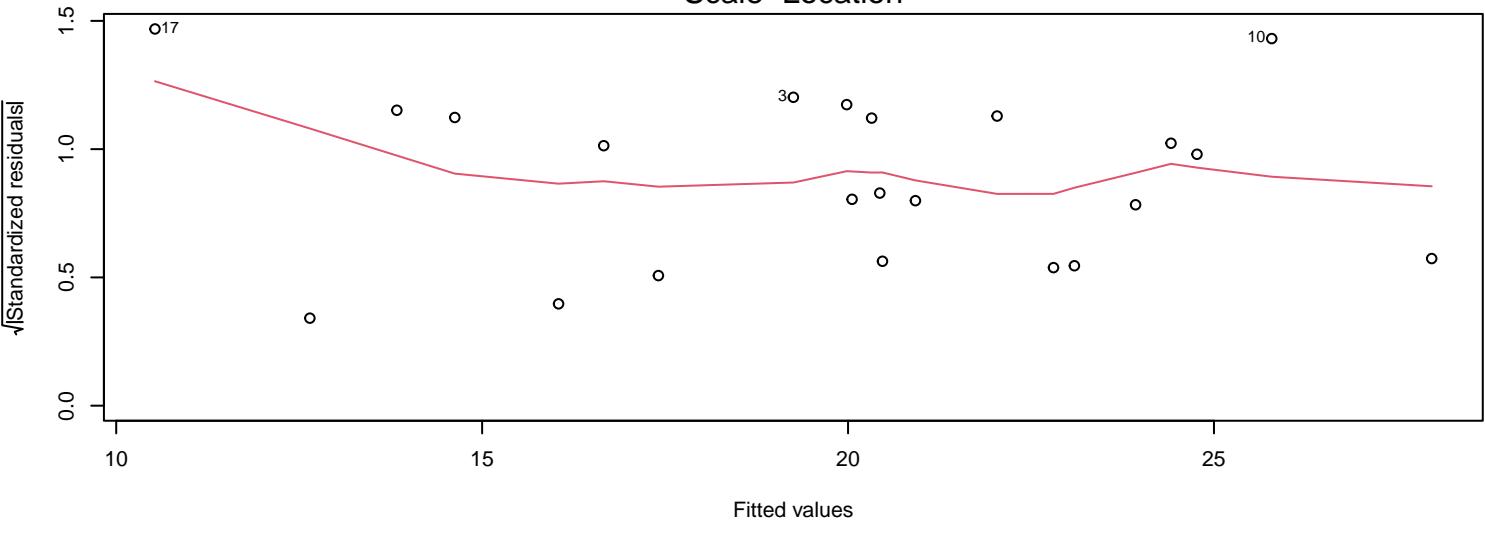
**Residuals vs Fitted: woods\_sum ~ smip\_post\_max**  
Residuals vs Fitted



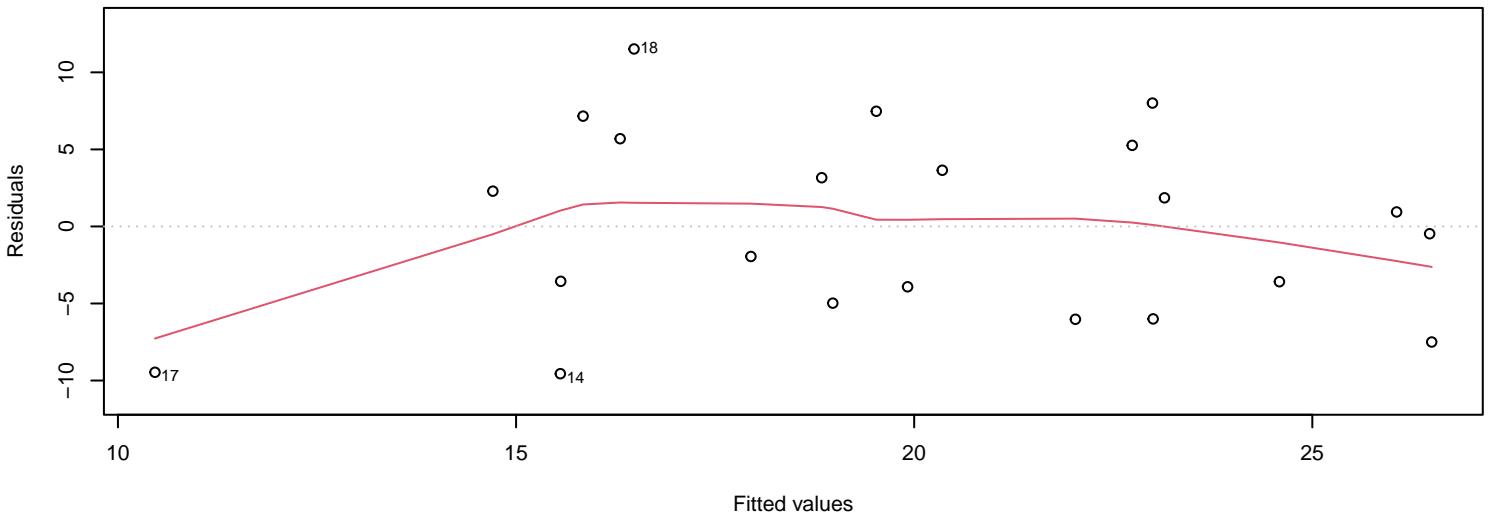
**Normal Q–Q: woods\_sum ~ smip\_post\_max**  
Q–Q Residuals



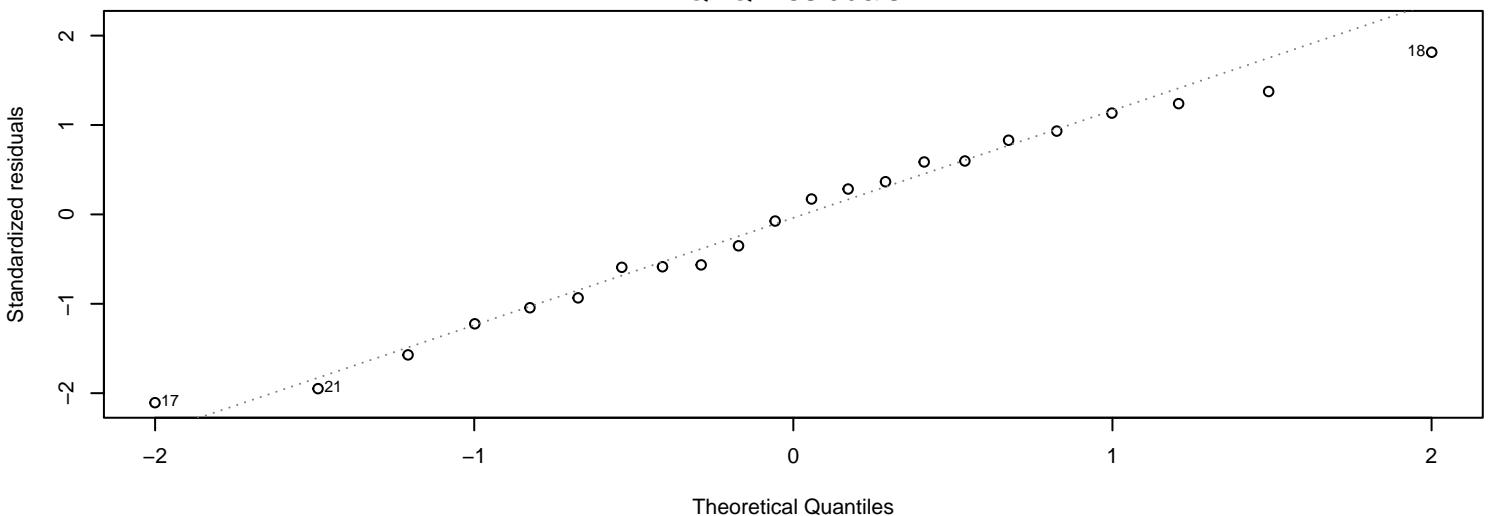
**Scale–Location: woods\_sum ~ smip\_post\_max**  
Scale–Location



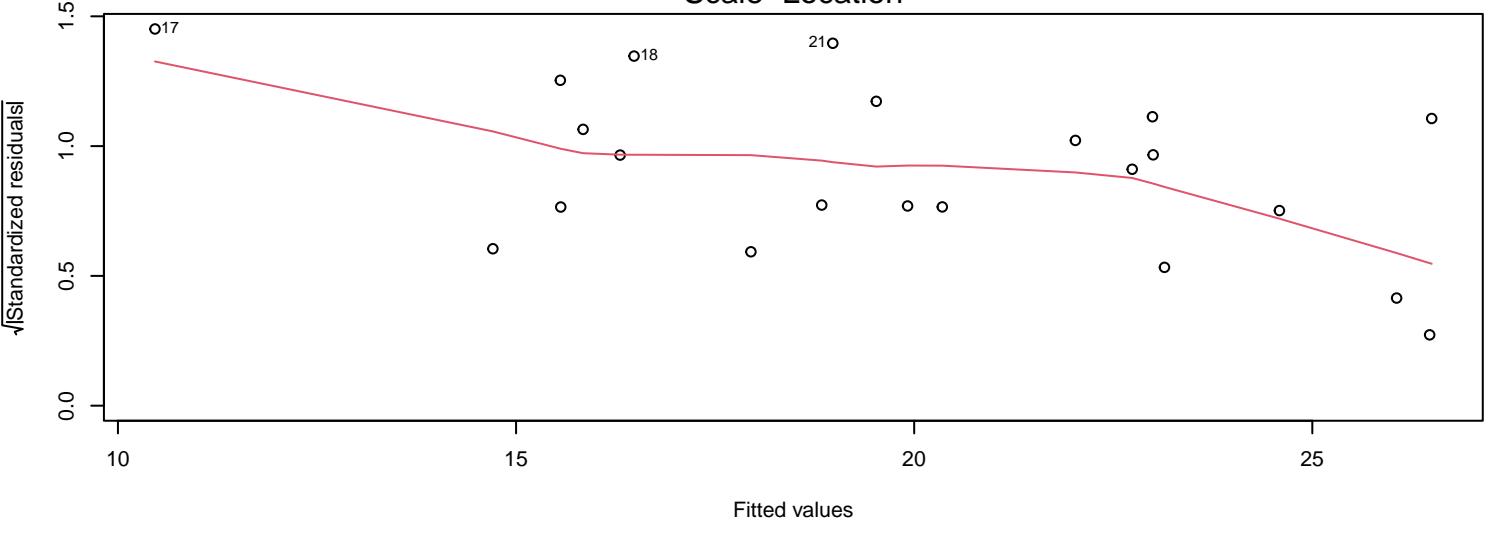
Residuals vs Fitted: woods\_sum ~ fit\_post\_max  
Residuals vs Fitted



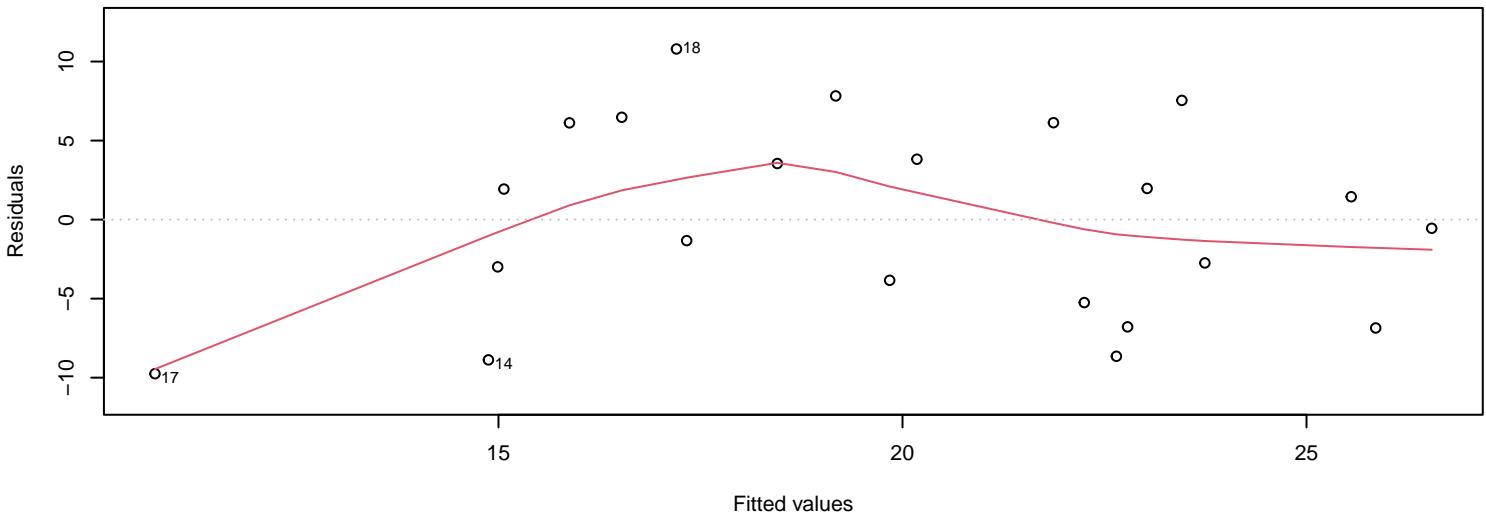
Normal Q-Q: woods\_sum ~ fit\_post\_max  
Q-Q Residuals



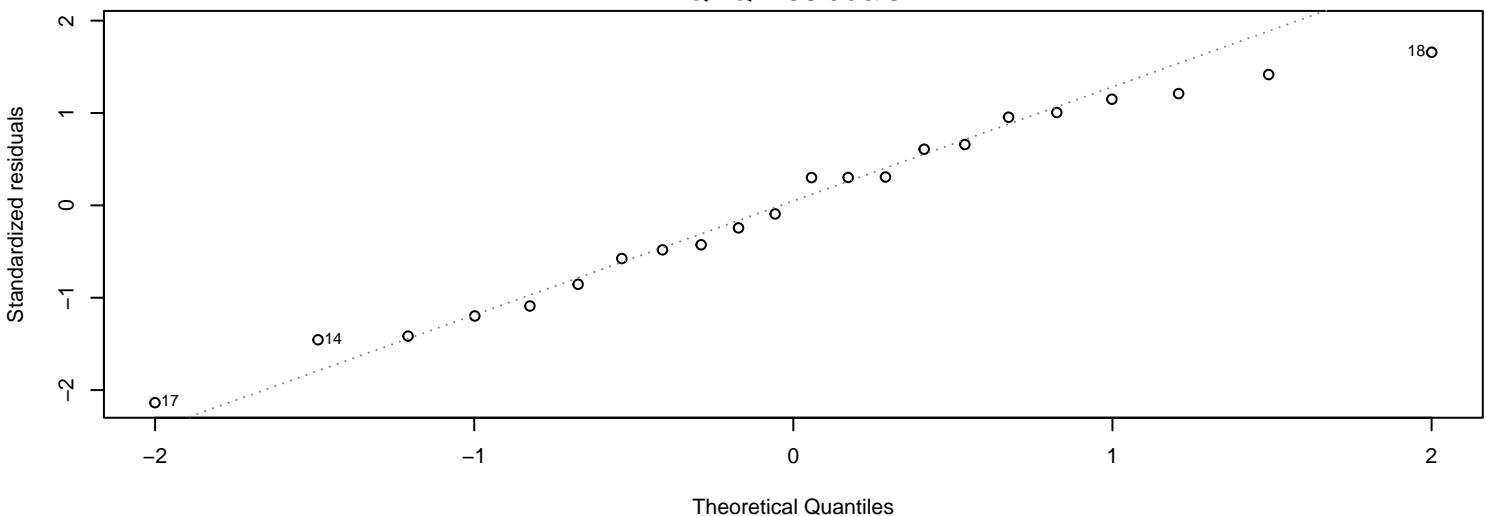
Scale-Location: woods\_sum ~ fit\_post\_max  
Scale-Location



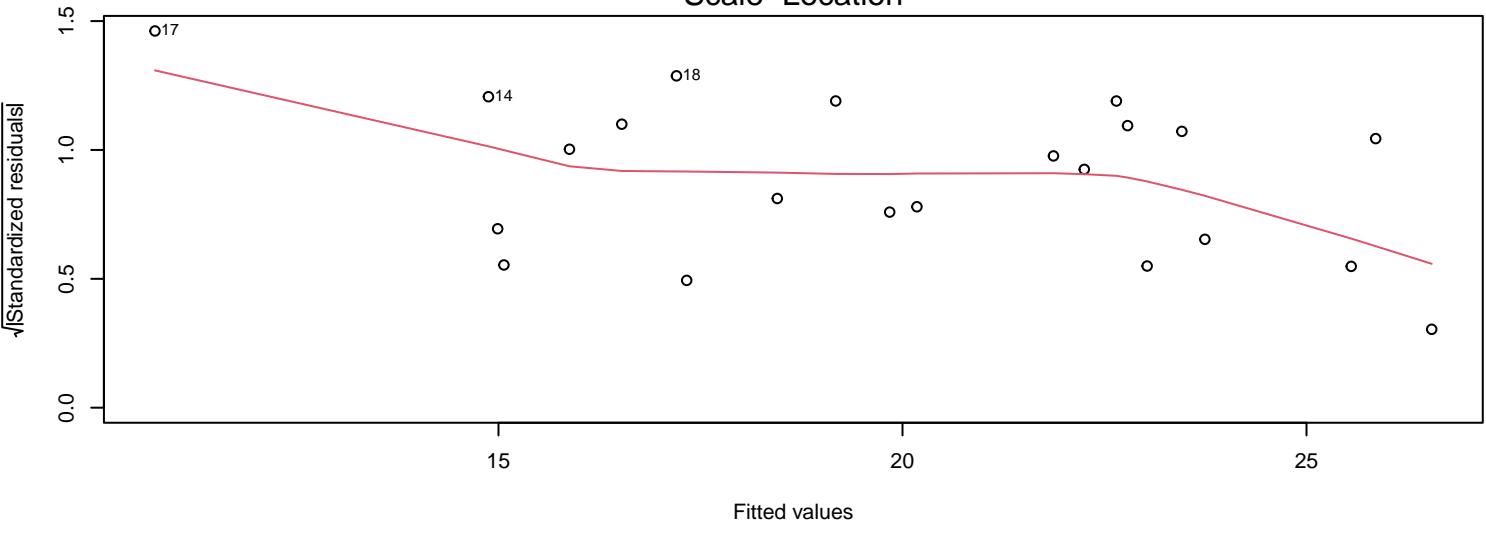
**Residuals vs Fitted: woods\_sum ~ pif\_post\_max**  
Residuals vs Fitted



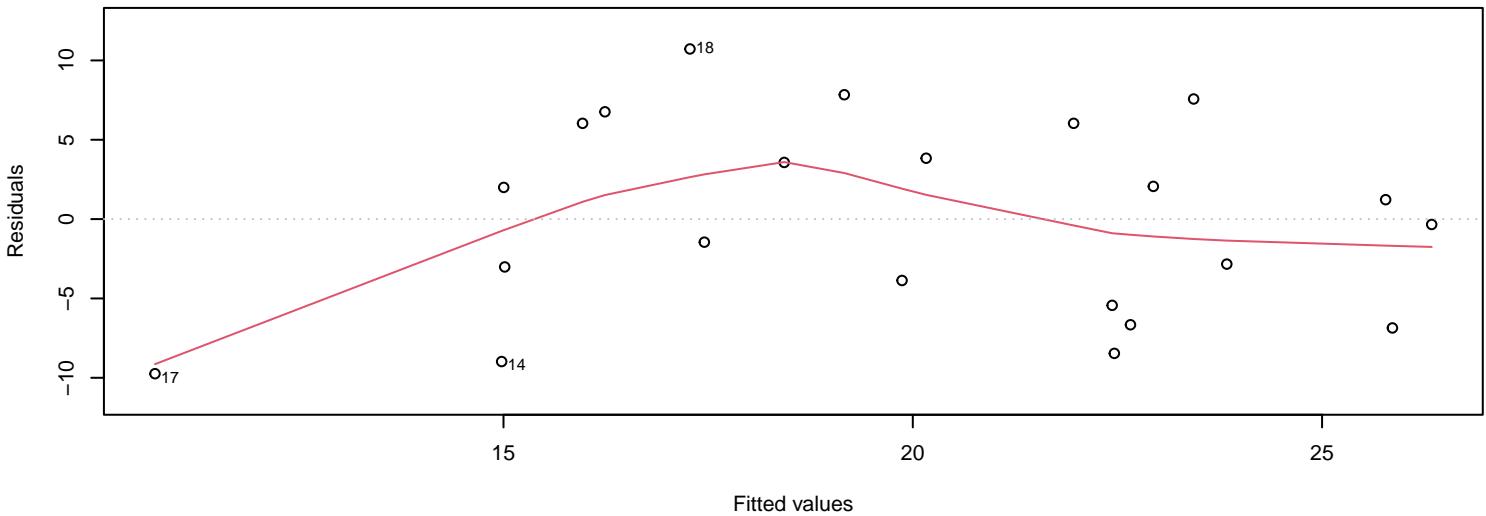
**Normal Q–Q: woods\_sum ~ pif\_post\_max**  
Q–Q Residuals



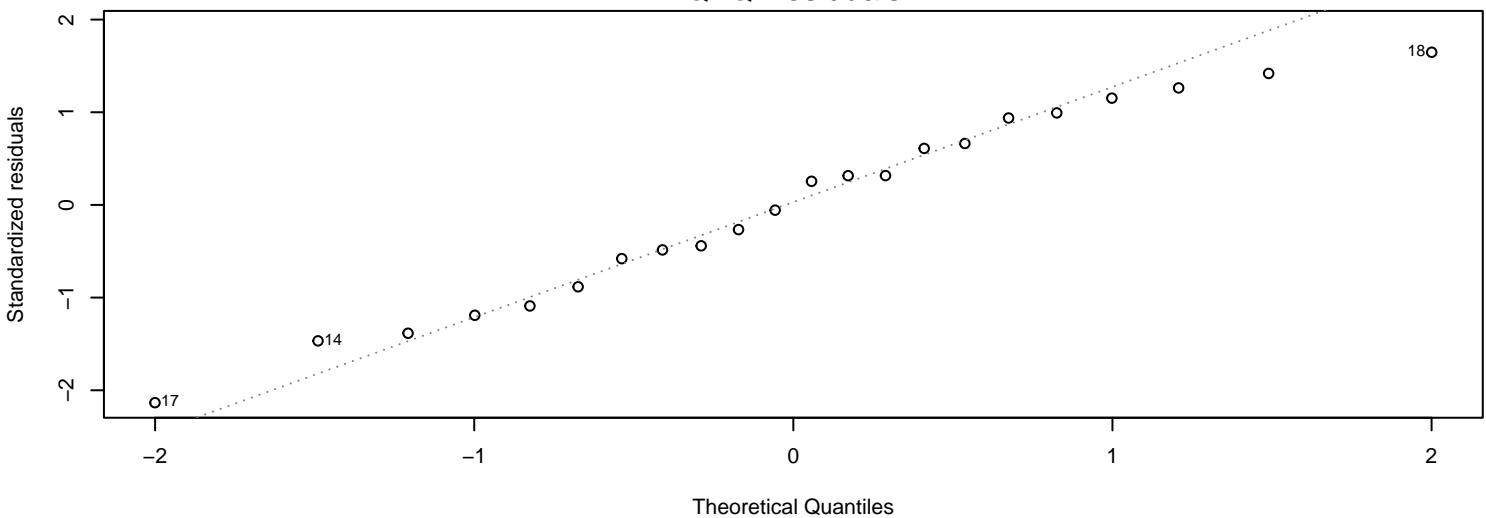
**Scale–Location: woods\_sum ~ pif\_post\_max**  
Scale–Location



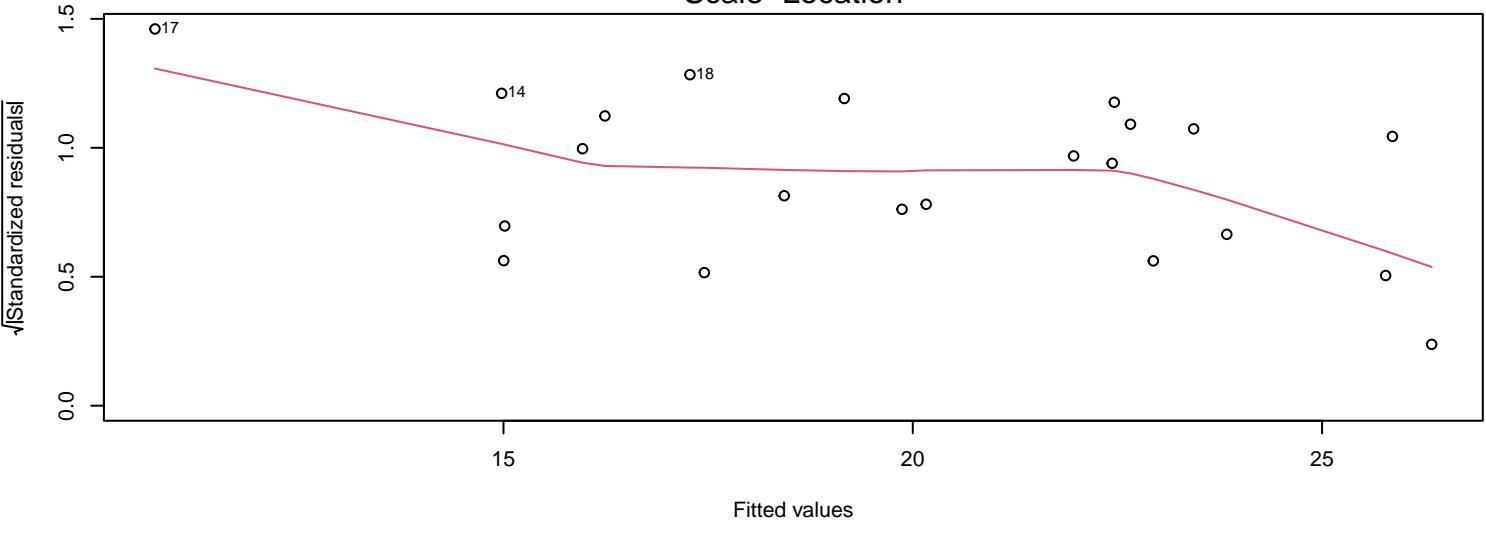
**Residuals vs Fitted: woods\_sum ~ sindex\_post\_max**  
Residuals vs Fitted



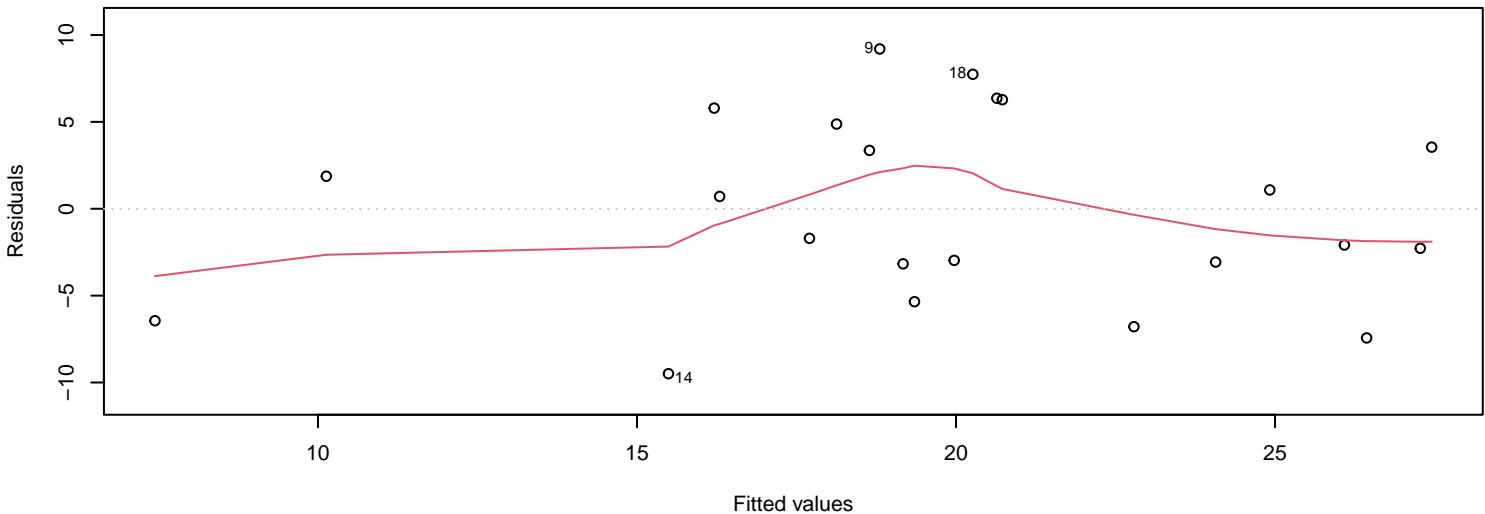
**Normal Q-Q: woods\_sum ~ sindex\_post\_max**  
Q-Q Residuals



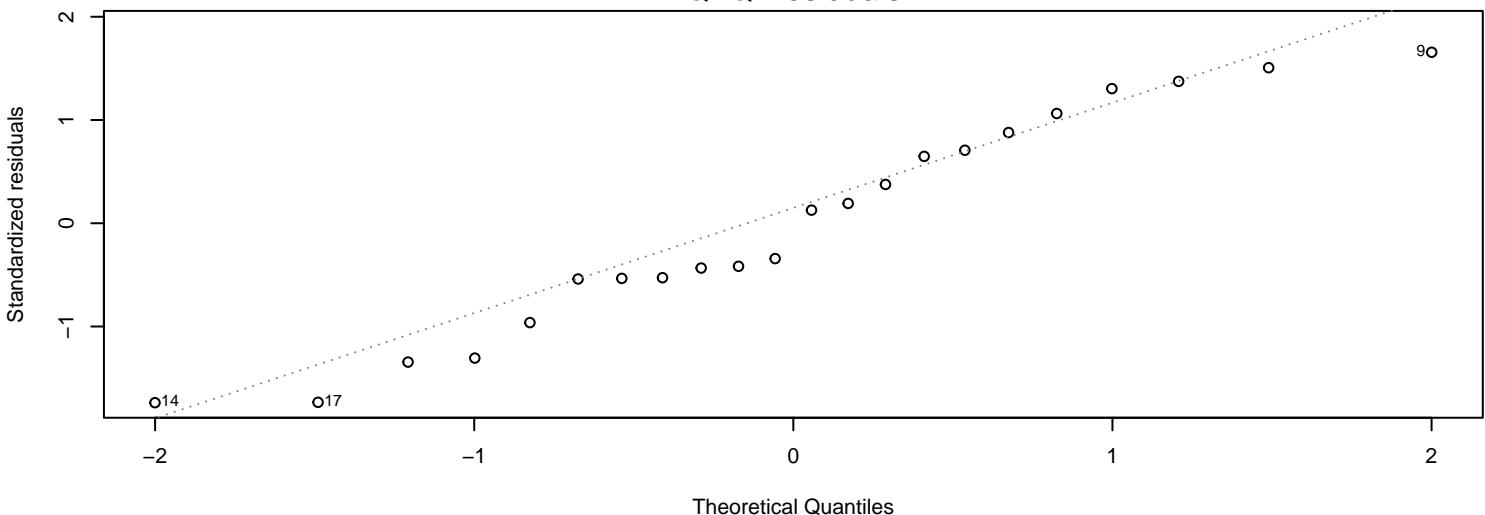
**Scale–Location: woods\_sum ~ sindex\_post\_max**  
Scale–Location



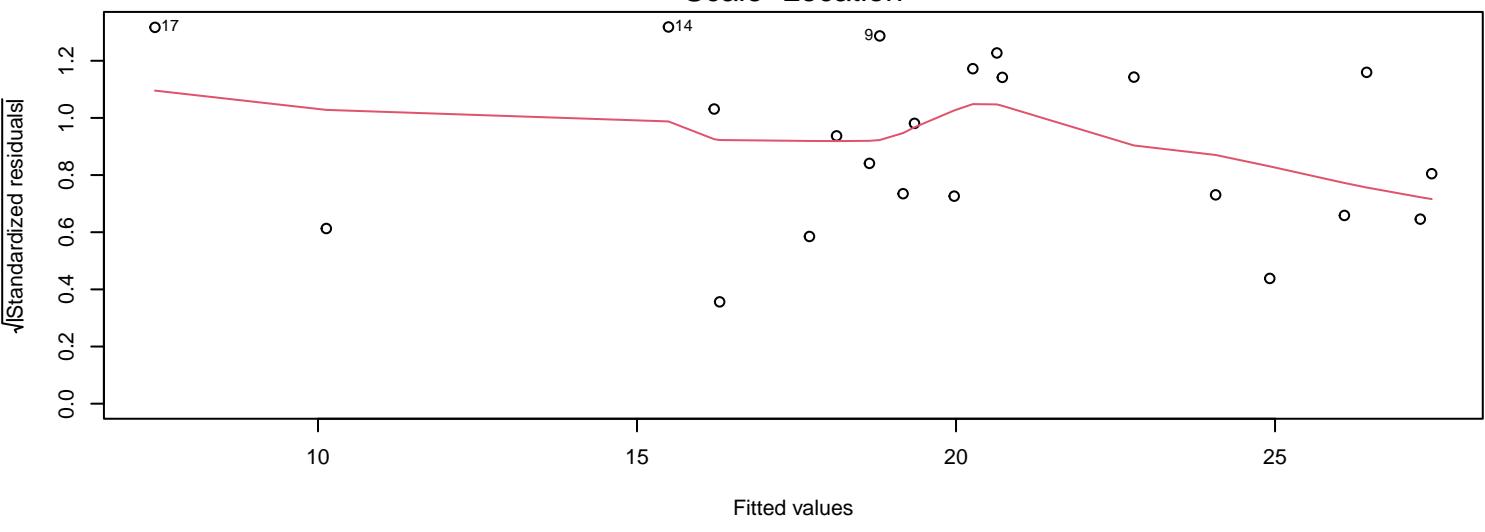
**Residuals vs Fitted: woods\_sum ~ volume\_post\_max**  
Residuals vs Fitted



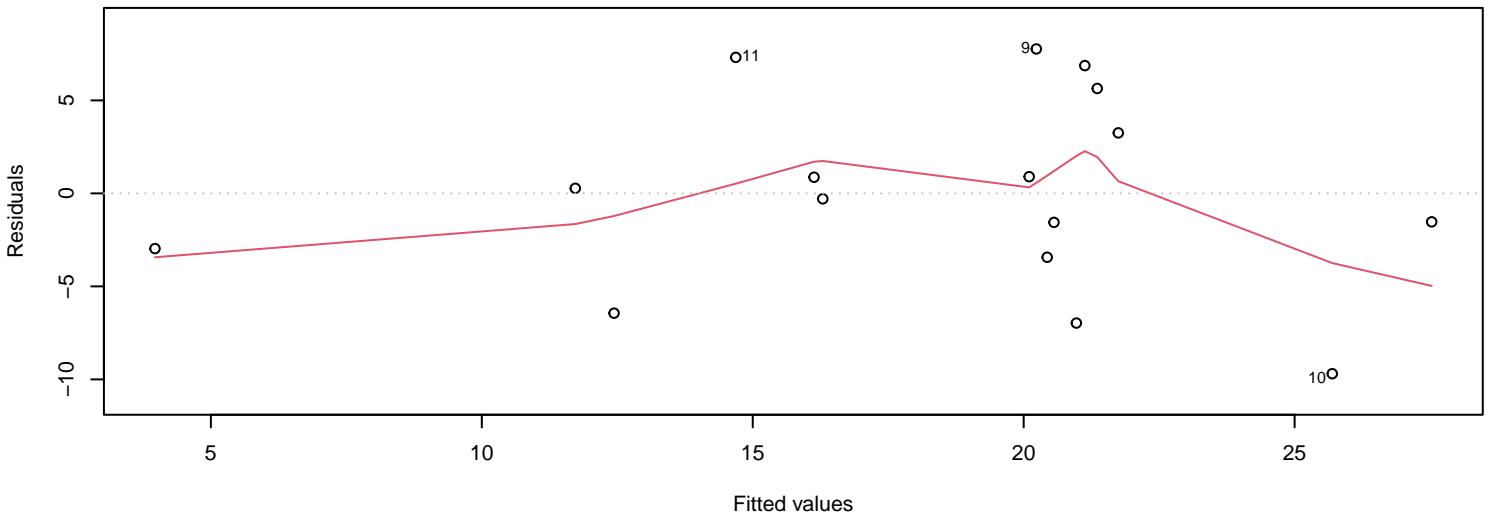
**Normal Q-Q: woods\_sum ~ volume\_post\_max**  
Q-Q Residuals



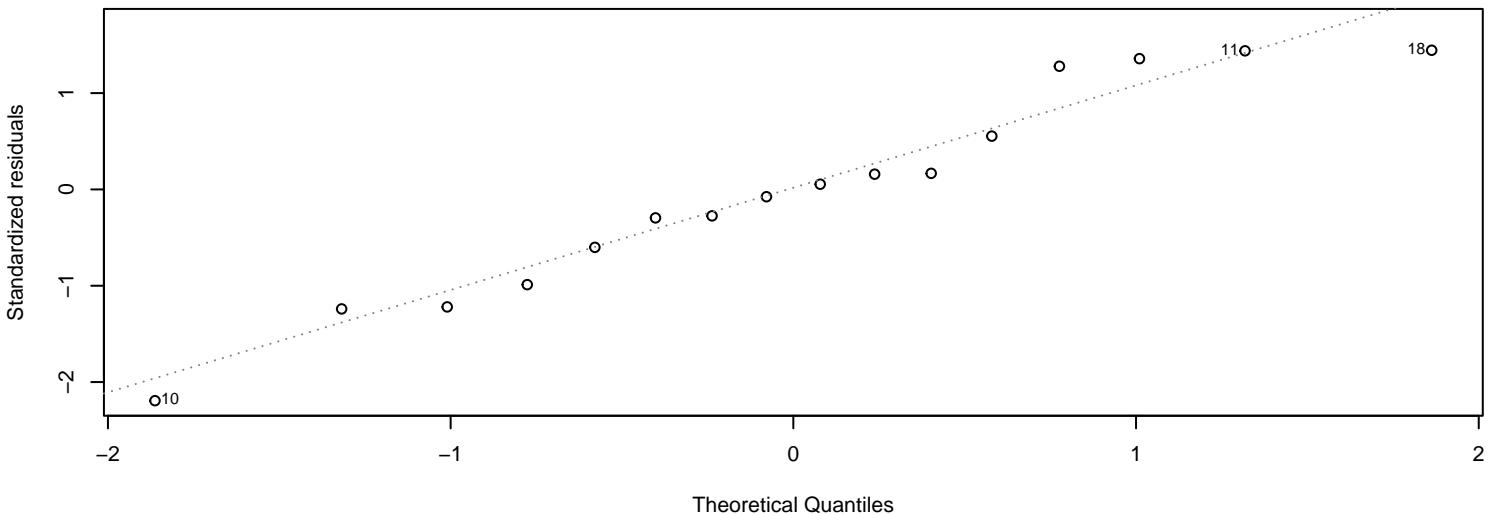
**Scale-Location: woods\_sum ~ volume\_post\_max**  
Scale-Location



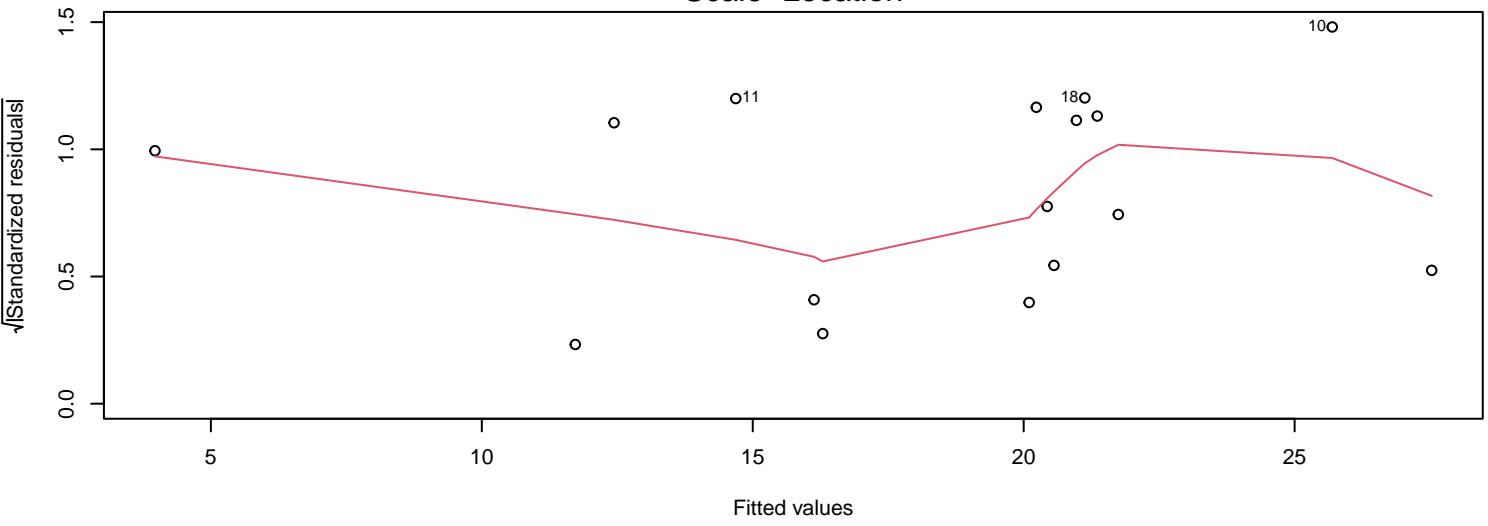
**Residuals vs Fitted: woods\_sum ~ id\_post\_max**  
Residuals vs Fitted



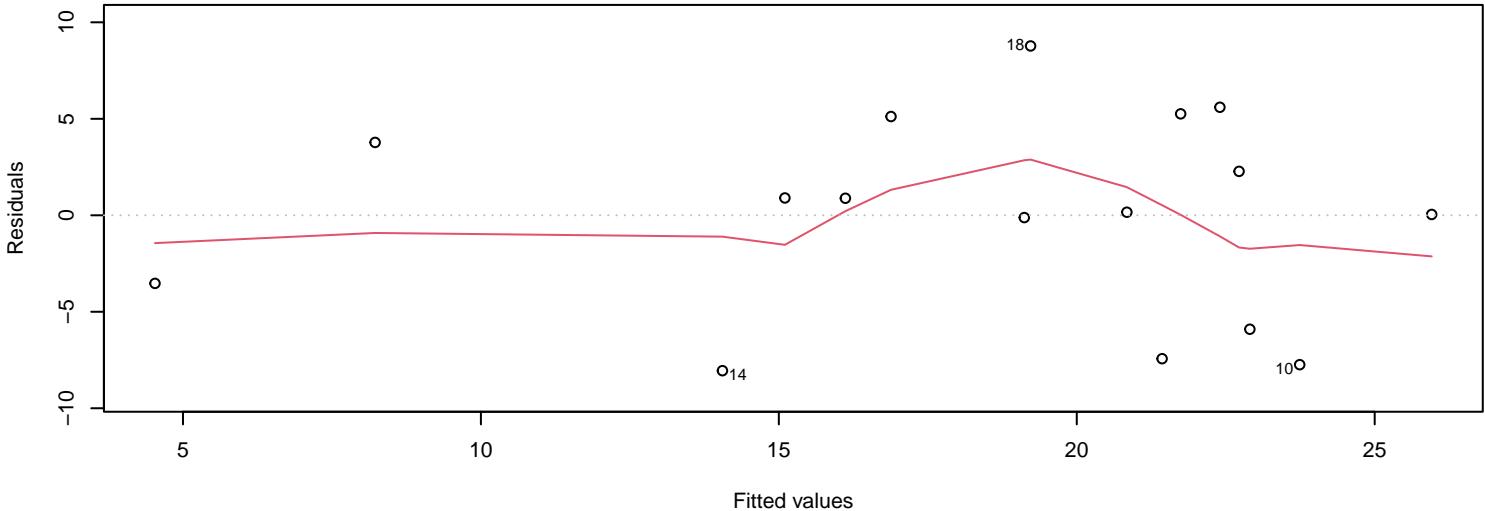
**Normal Q-Q: woods\_sum ~ id\_post\_max**  
Q-Q Residuals



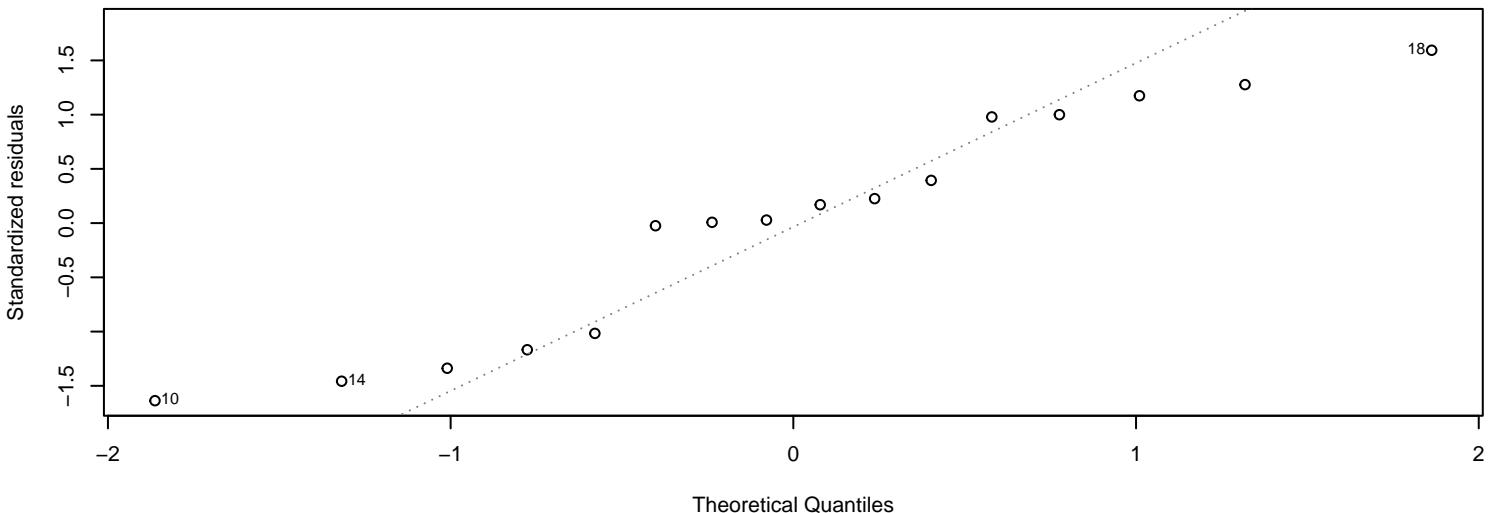
**Scale-Location: woods\_sum ~ id\_post\_max**  
Scale-Location



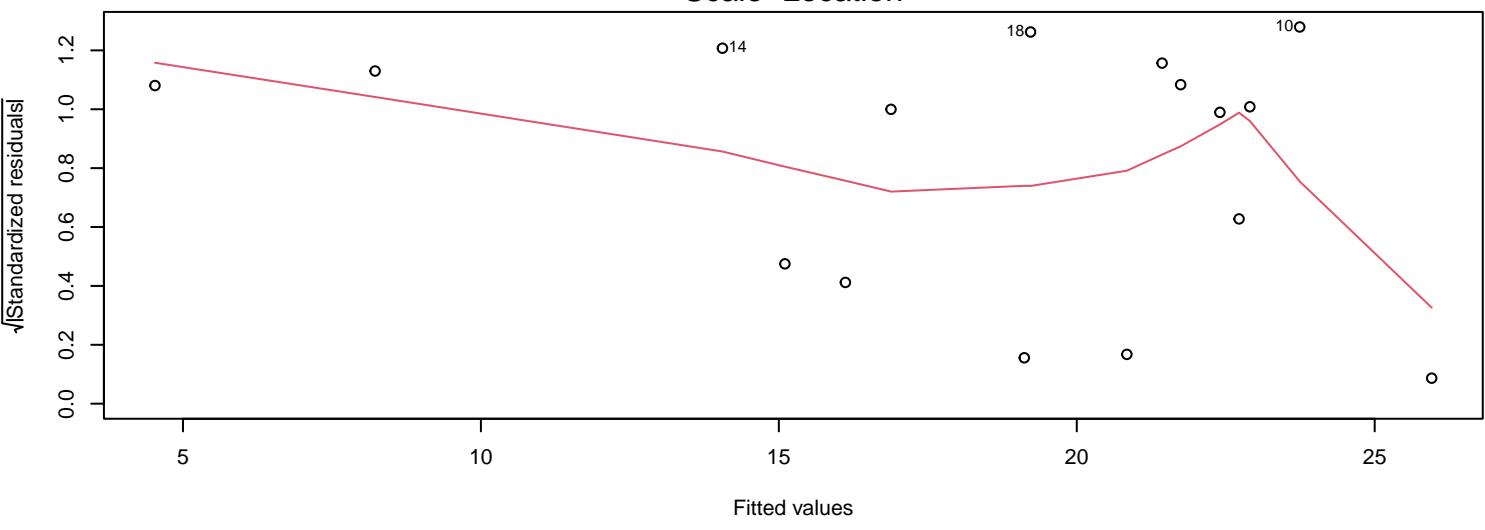
**Residuals vs Fitted: woods\_sum ~ slopesmip\_post\_max**  
Residuals vs Fitted



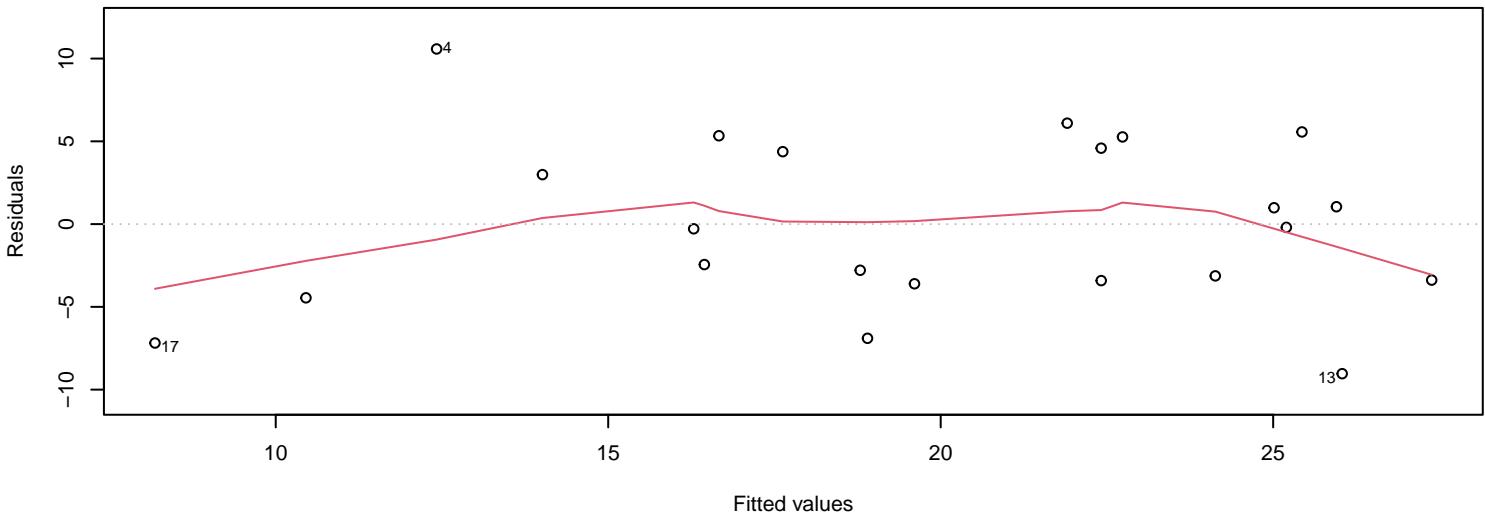
**Normal Q-Q: woods\_sum ~ slopesmip\_post\_max**  
Q-Q Residuals



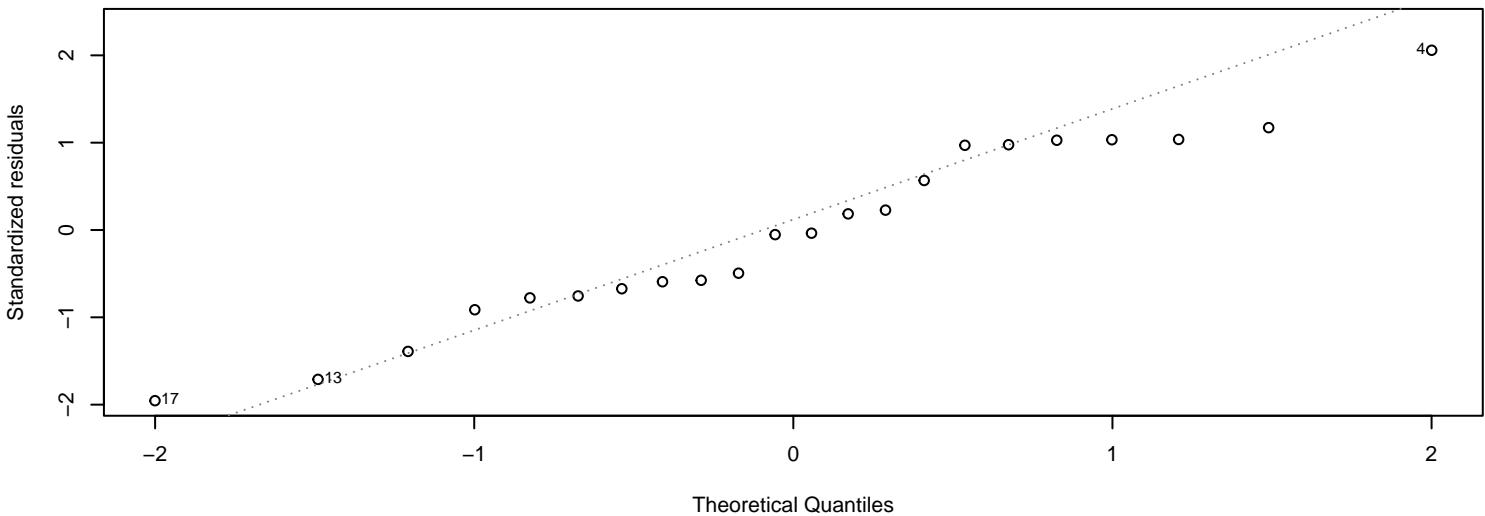
**Scale–Location: woods\_sum ~ slopesmip\_post\_max**  
Scale–Location



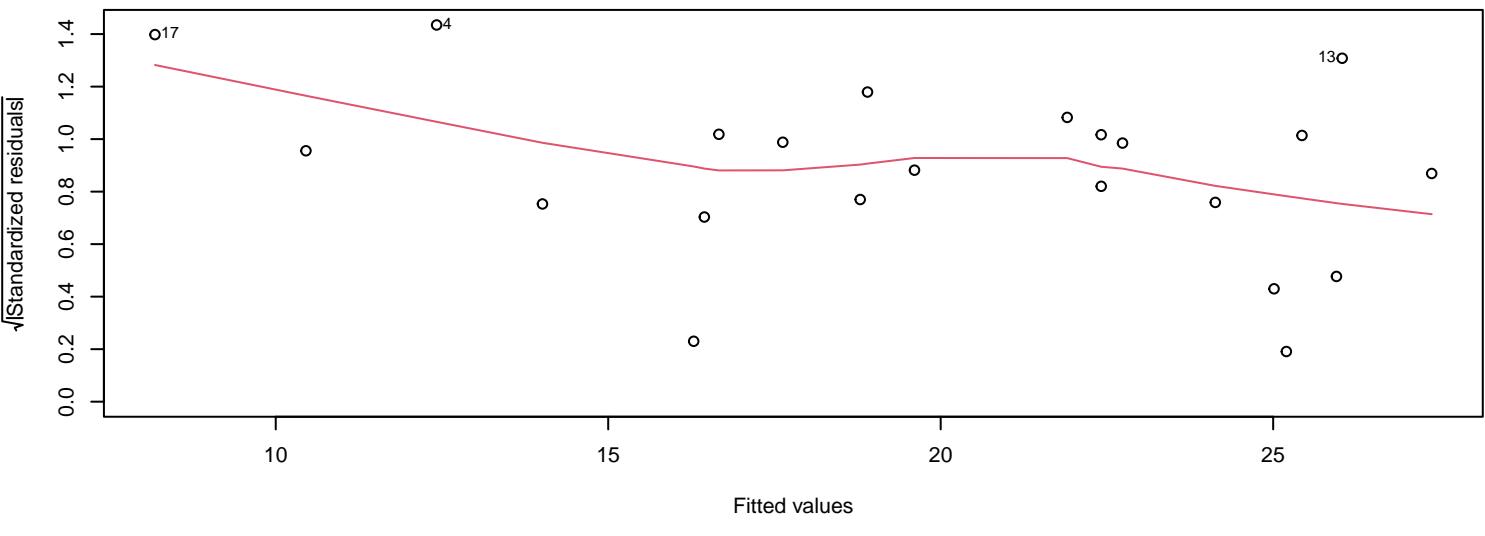
Residuals vs Fitted: woods\_sum ~ bdi\_sum  
Residuals vs Fitted



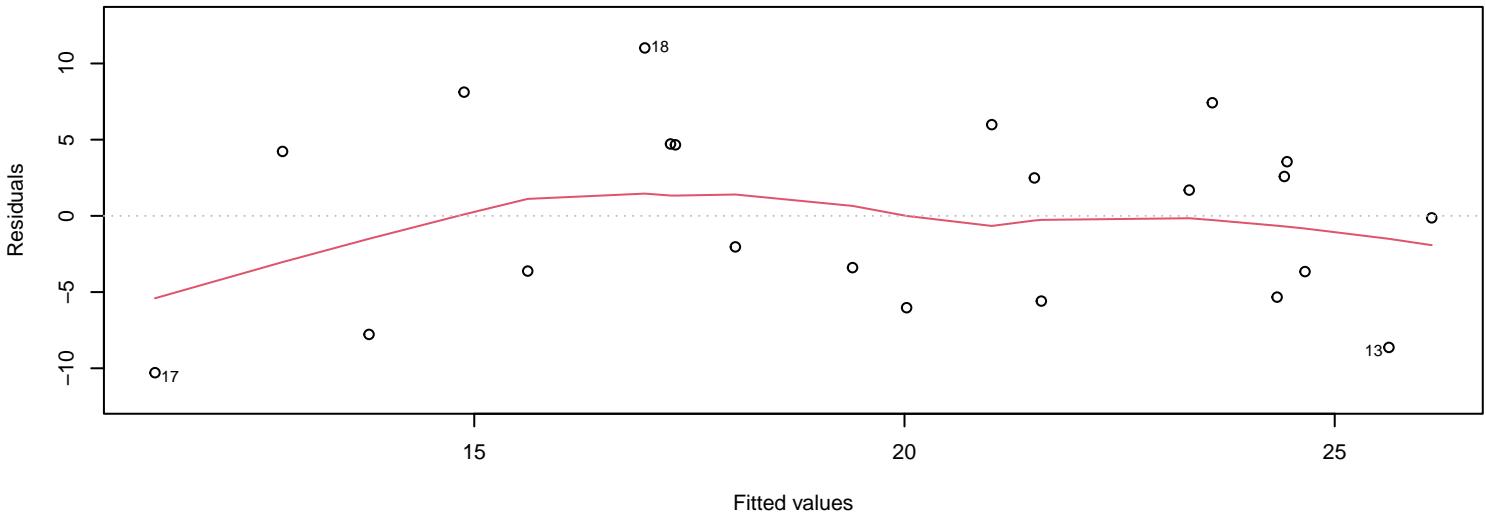
Normal Q-Q: woods\_sum ~ bdi\_sum  
Q-Q Residuals



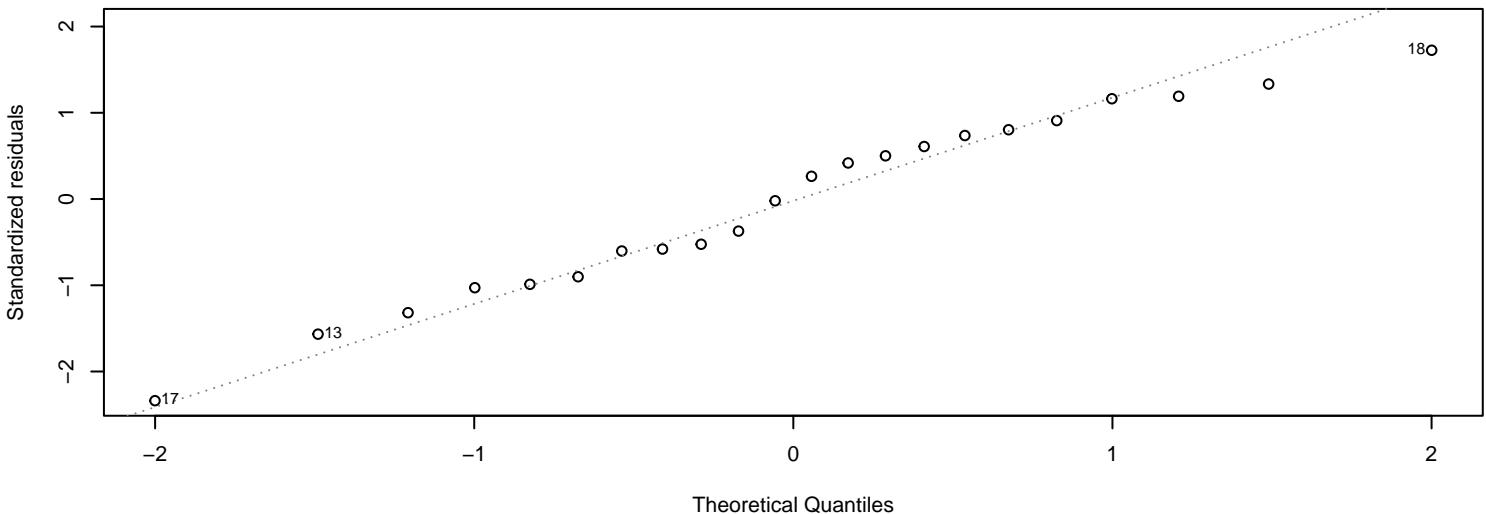
Scale–Location: woods\_sum ~ bdi\_sum  
Scale–Location



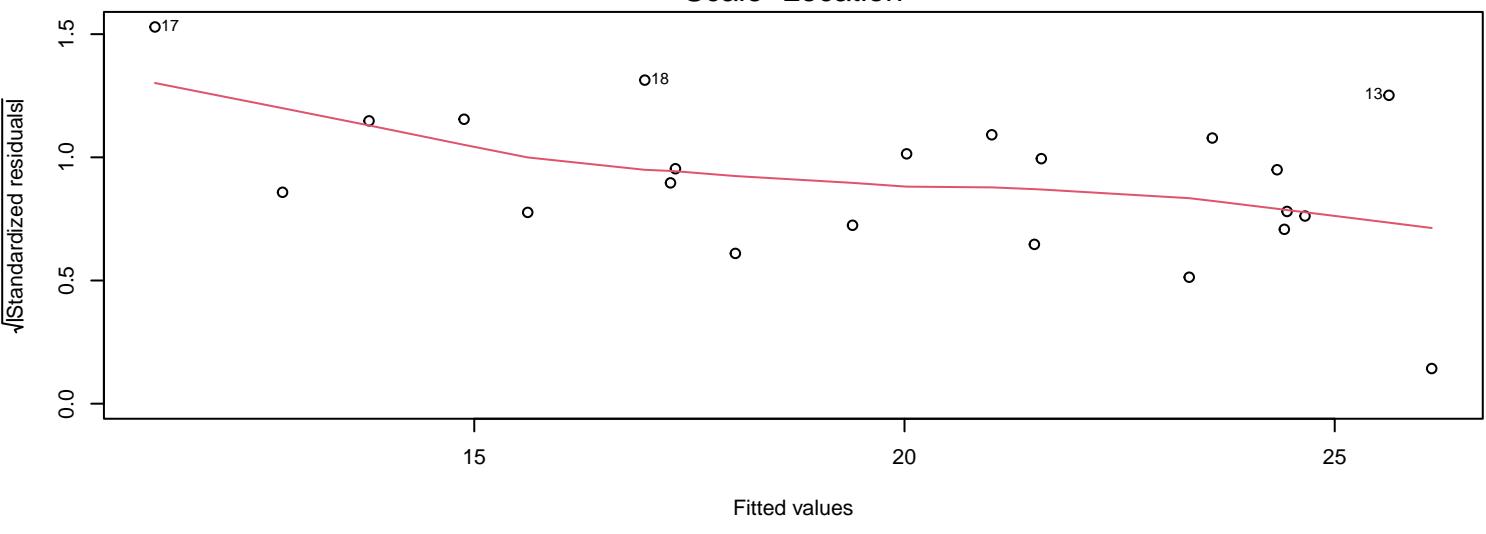
**Residuals vs Fitted: woods\_sum ~ mmrc\_score**  
Residuals vs Fitted



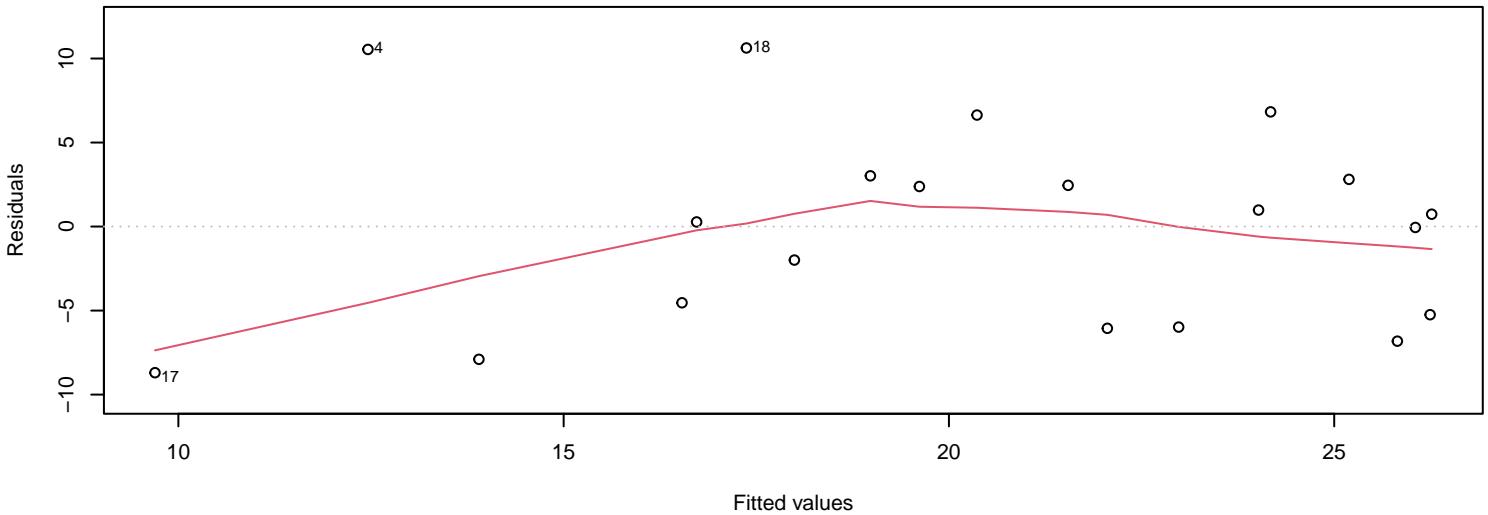
**Normal Q-Q: woods\_sum ~ mmrc\_score**  
Q-Q Residuals



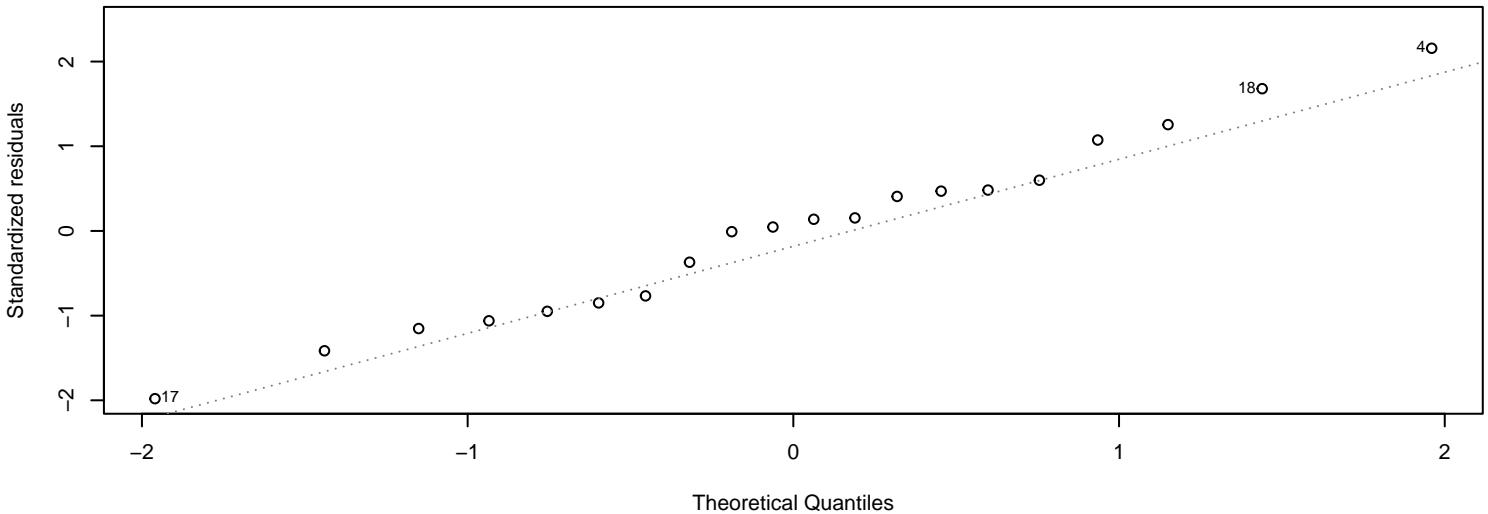
**Scale-Location: woods\_sum ~ mmrc\_score**  
Scale-Location



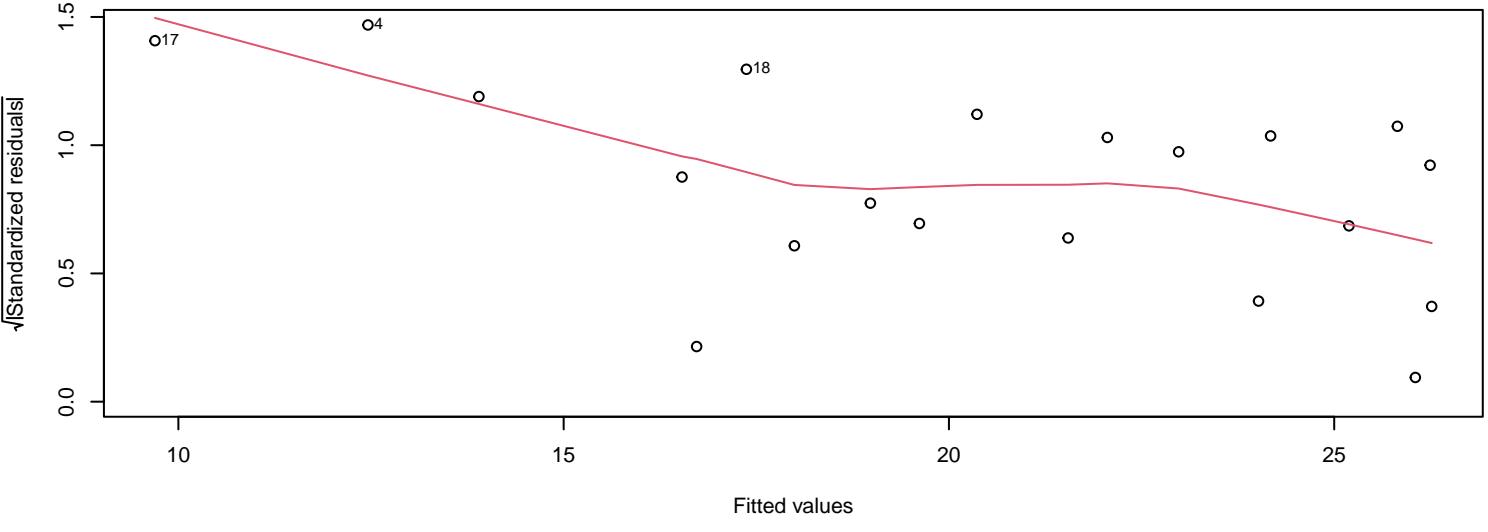
**Residuals vs Fitted: woods\_sum ~ cpet\_ve**  
Residuals vs Fitted



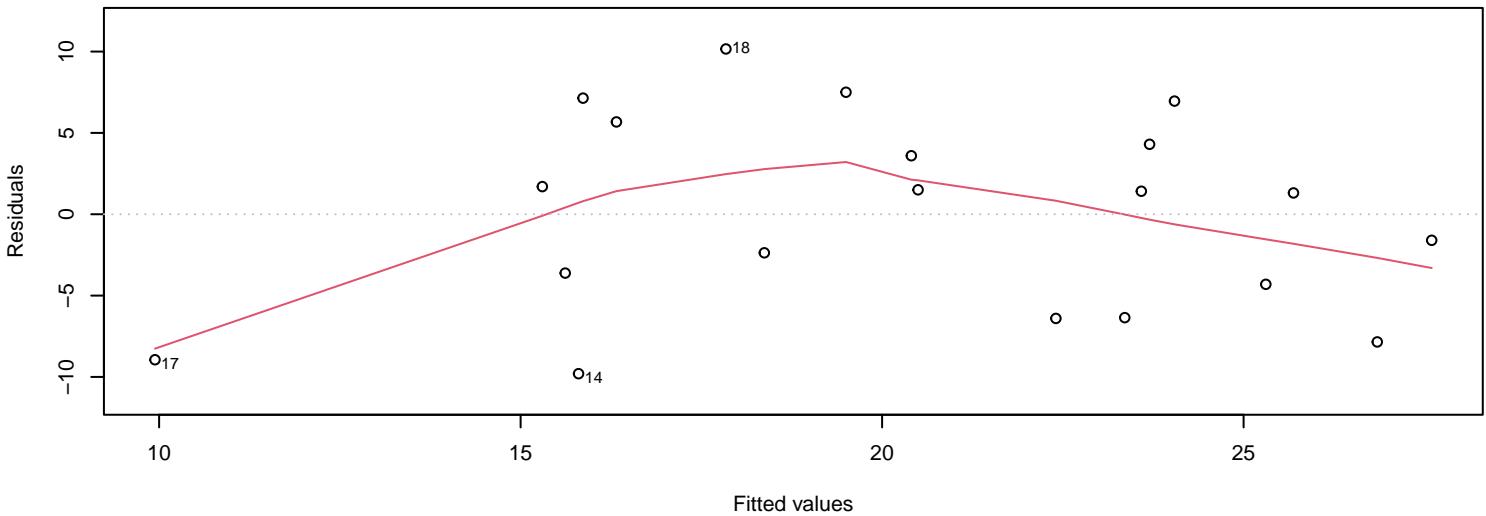
**Normal Q-Q: woods\_sum ~ cpet\_ve**  
Q-Q Residuals



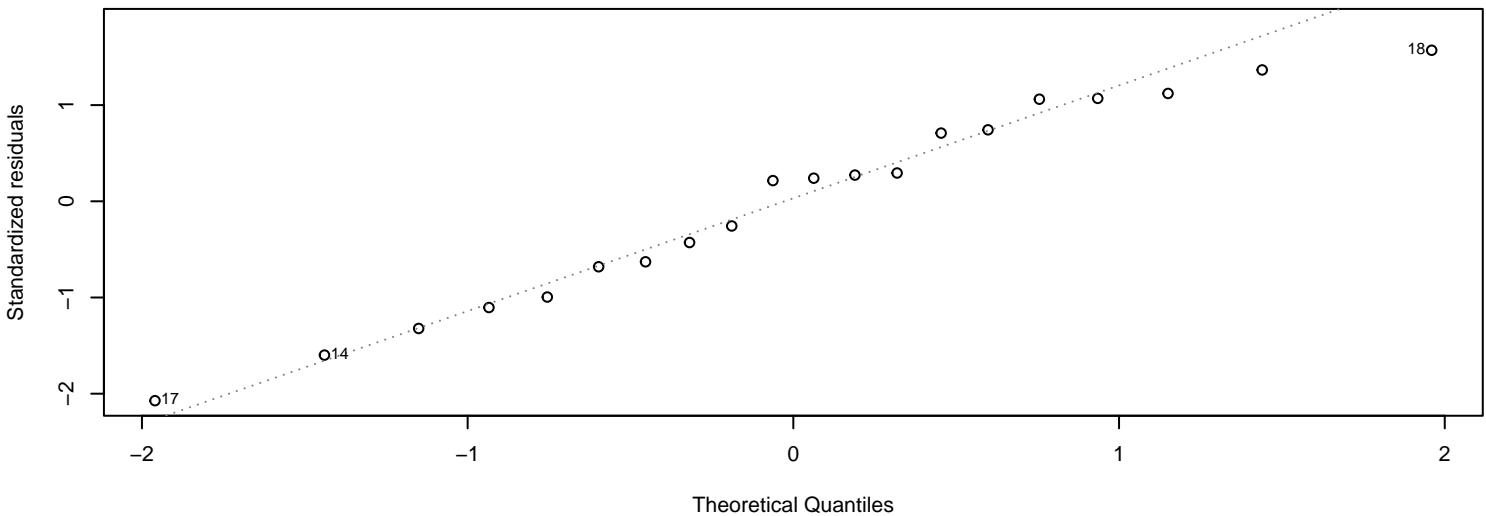
**Scale-Location: woods\_sum ~ cpet\_ve**  
Scale-Location



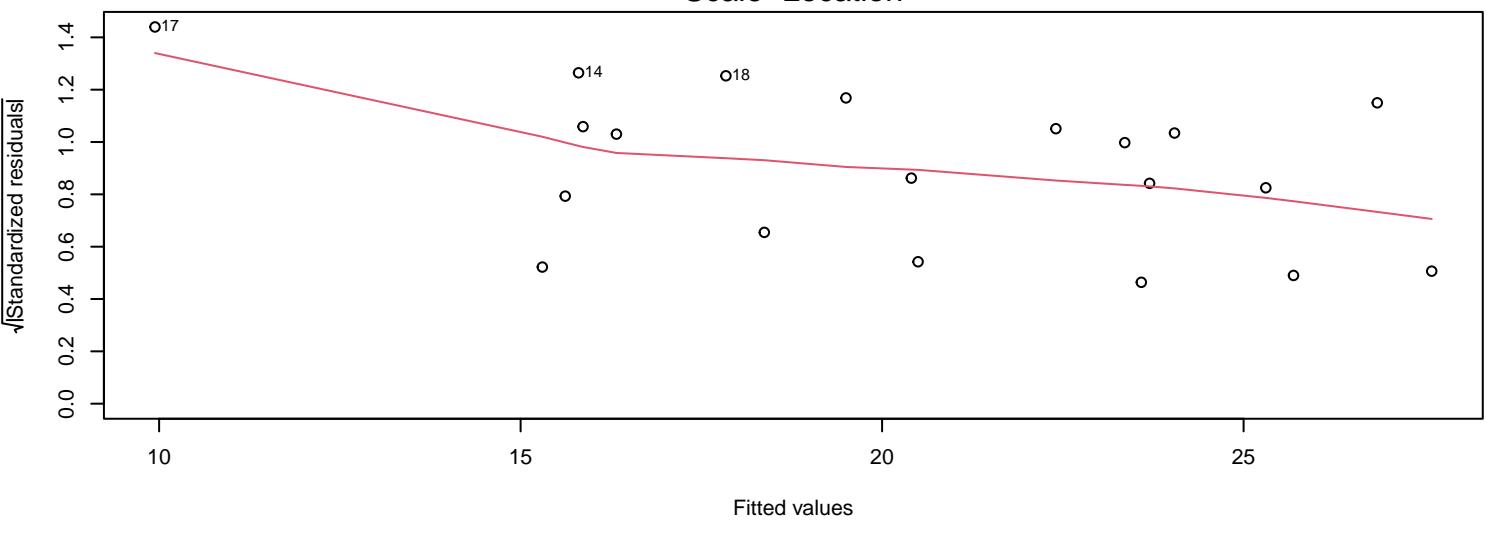
Residuals vs Fitted: woods\_sum ~ cpet\_vt\_peak  
Residuals vs Fitted



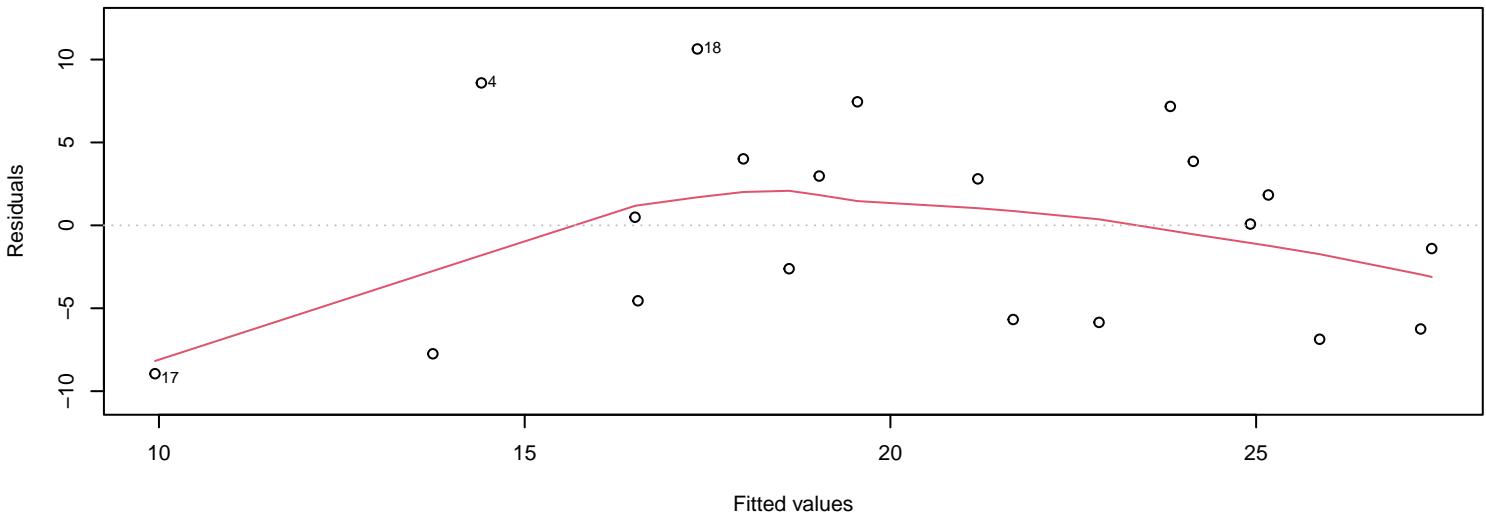
Normal Q–Q: woods\_sum ~ cpet\_vt\_peak  
Q–Q Residuals



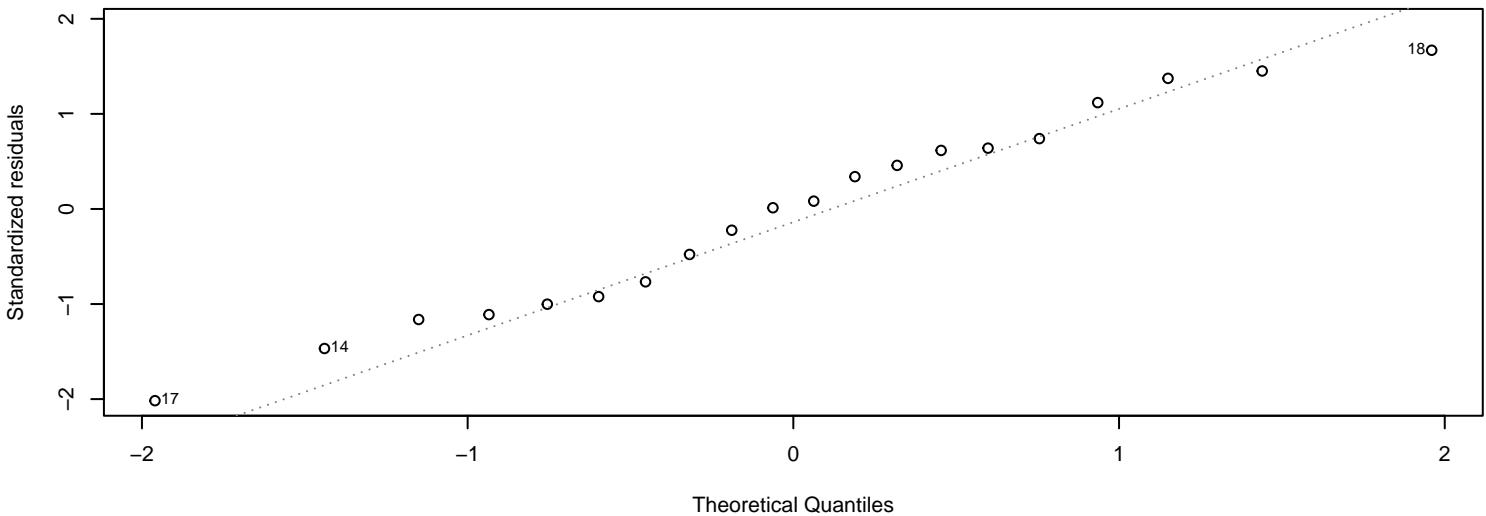
Scale–Location: woods\_sum ~ cpet\_vt\_peak  
Scale–Location



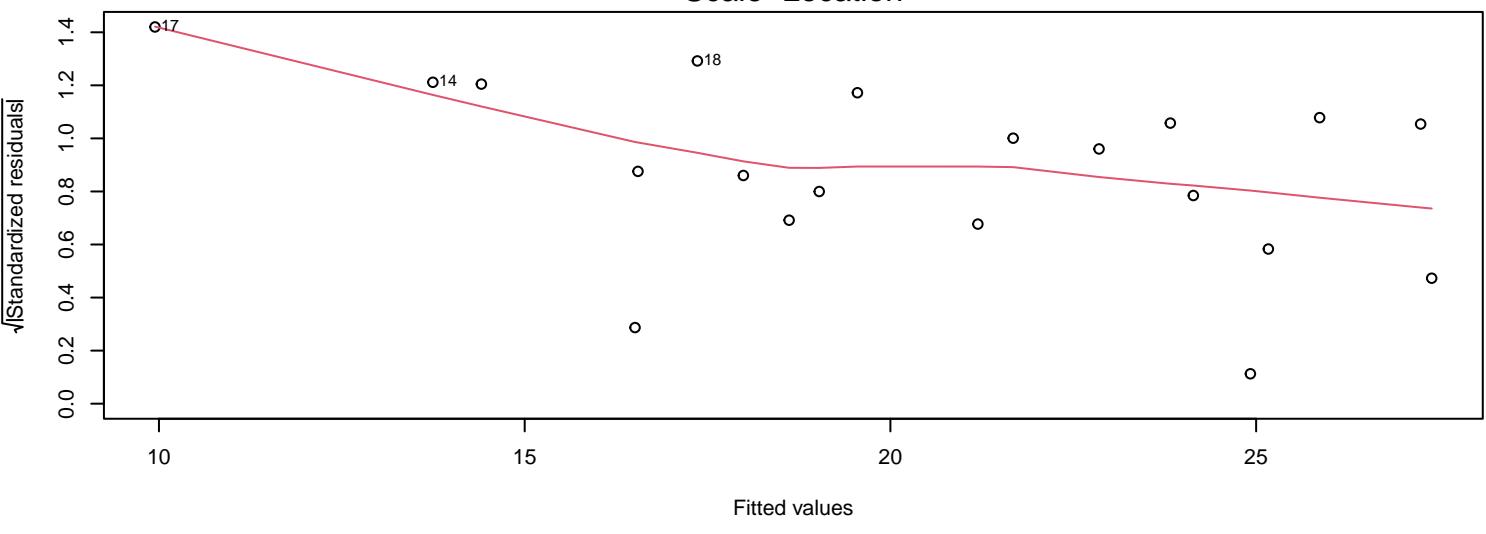
**Residuals vs Fitted: woods\_sum ~ cpet\_o2pulse**  
Residuals vs Fitted



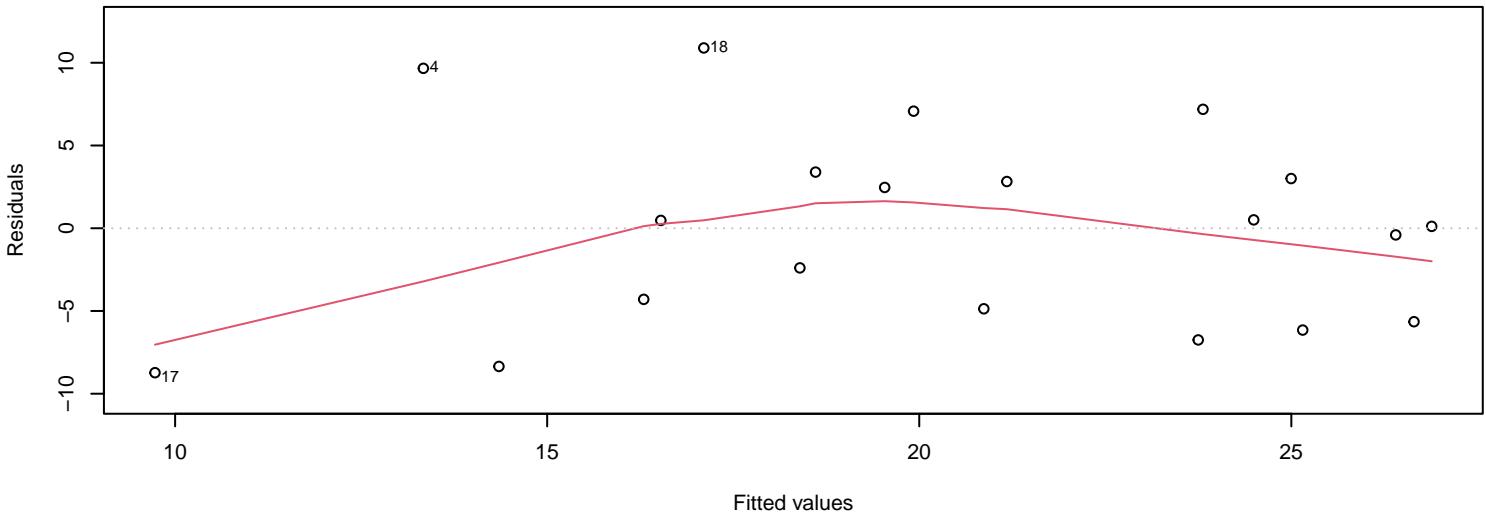
**Normal Q–Q: woods\_sum ~ cpet\_o2pulse**  
Q–Q Residuals



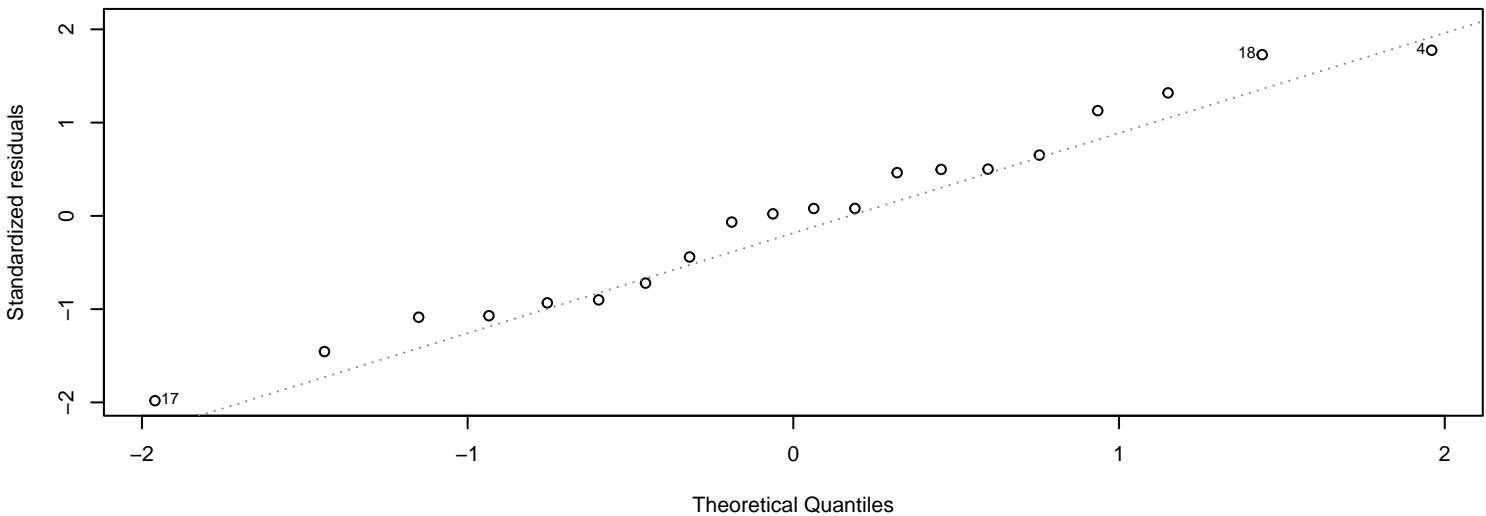
**Scale–Location: woods\_sum ~ cpet\_o2pulse**  
Scale–Location



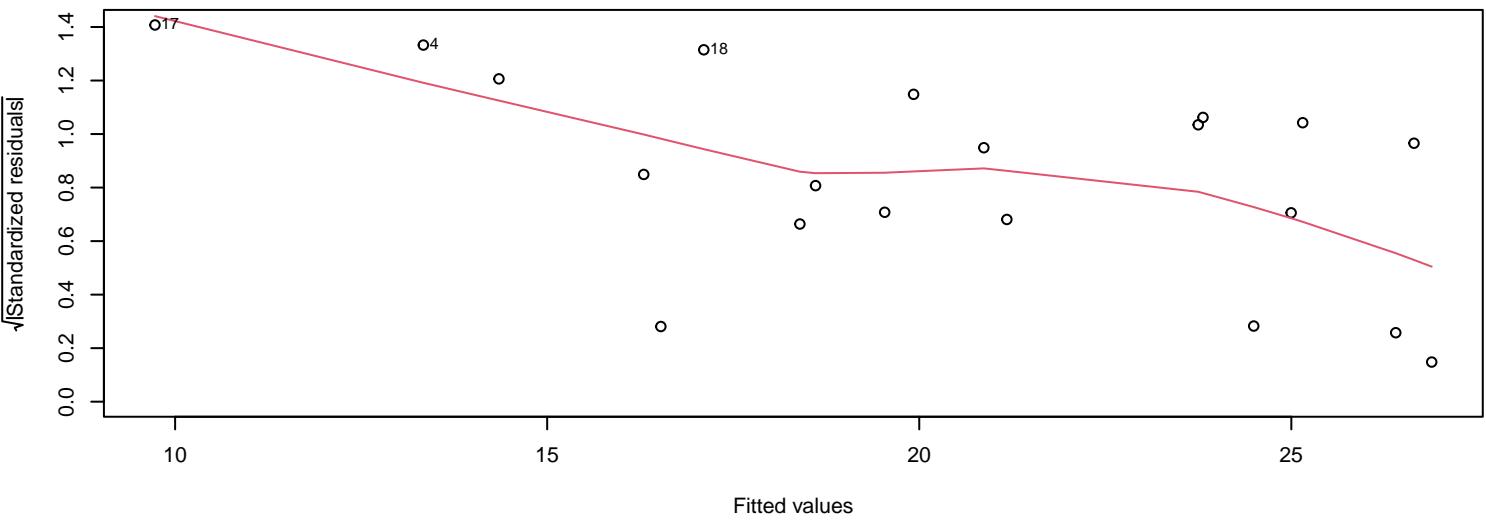
Residuals vs Fitted: woods\_sum ~ cpet\_vo2peak\_absolute  
Residuals vs Fitted



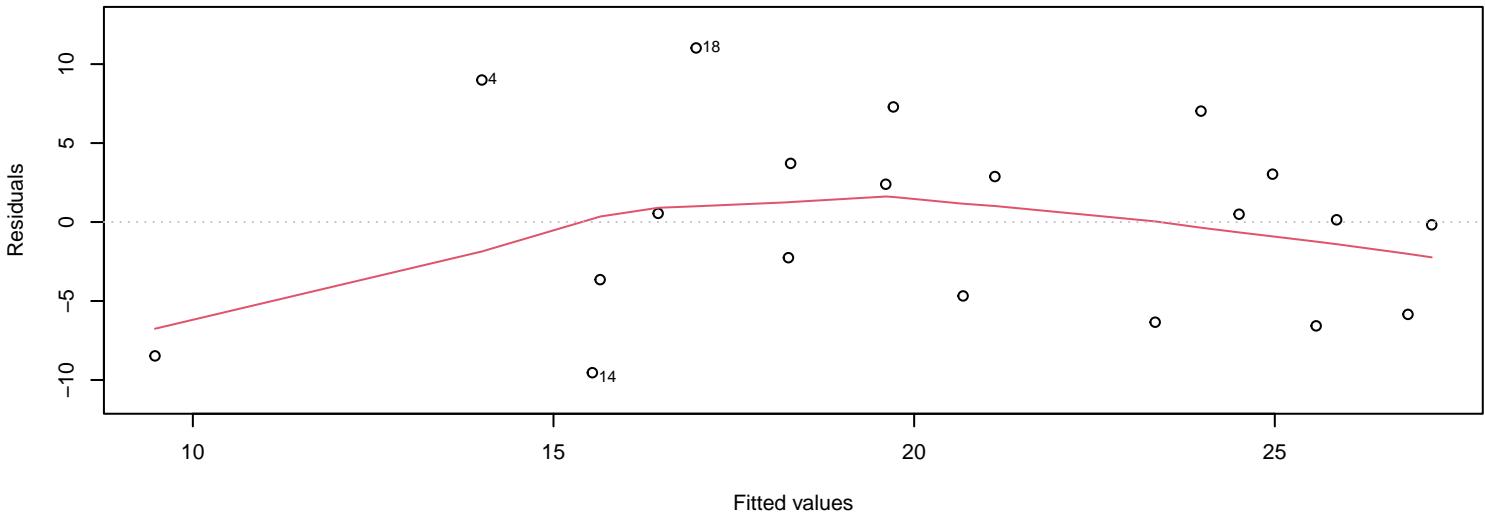
Normal Q–Q: woods\_sum ~ cpet\_vo2peak\_absolute  
Q–Q Residuals



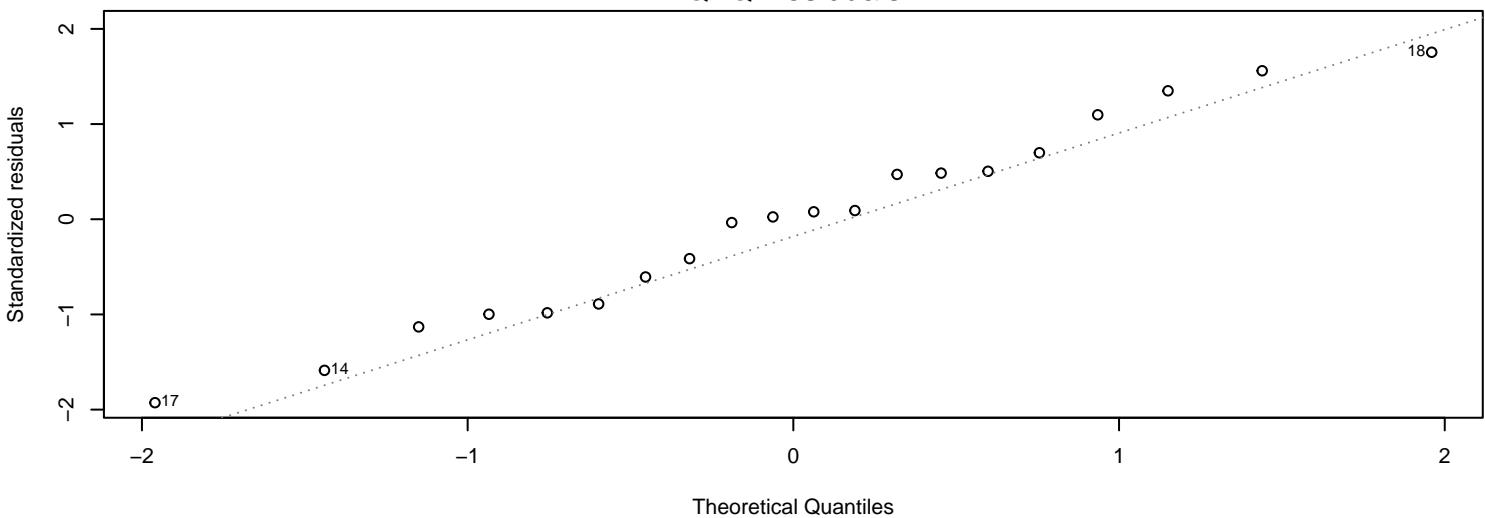
Scale–Location: woods\_sum ~ cpet\_vo2peak\_absolute  
Scale–Location



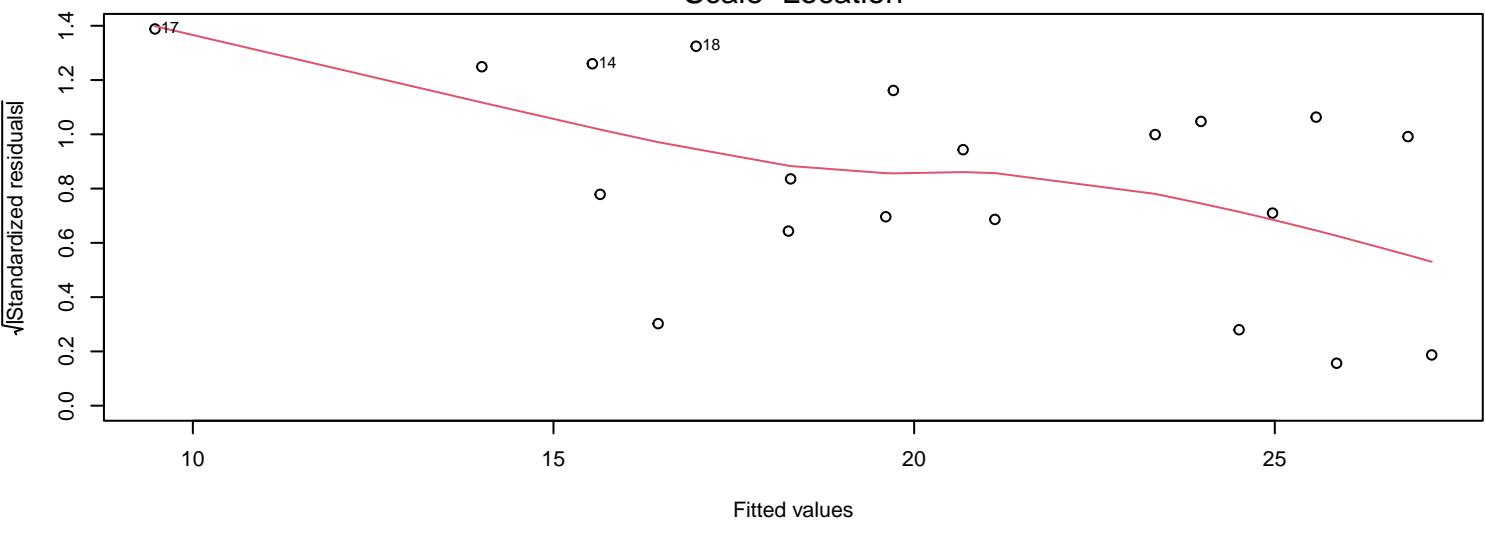
Residuals vs Fitted: woods\_sum ~ cpet\_vo2peak\_relative  
Residuals vs Fitted



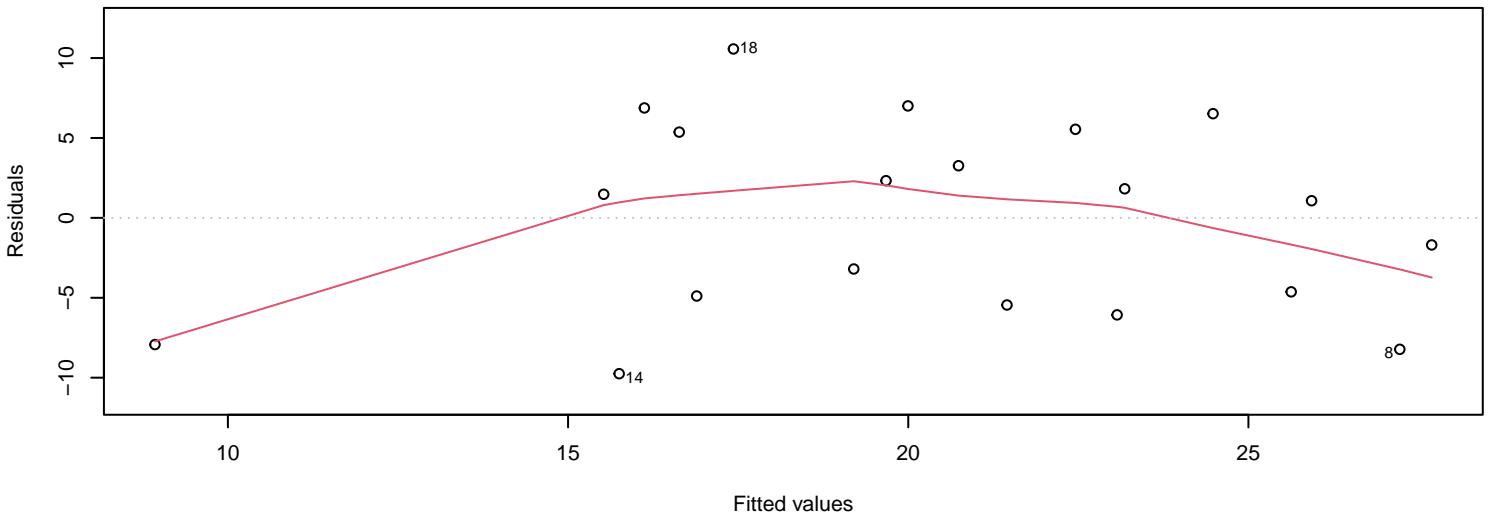
Normal Q–Q: woods\_sum ~ cpet\_vo2peak\_relative  
Q–Q Residuals



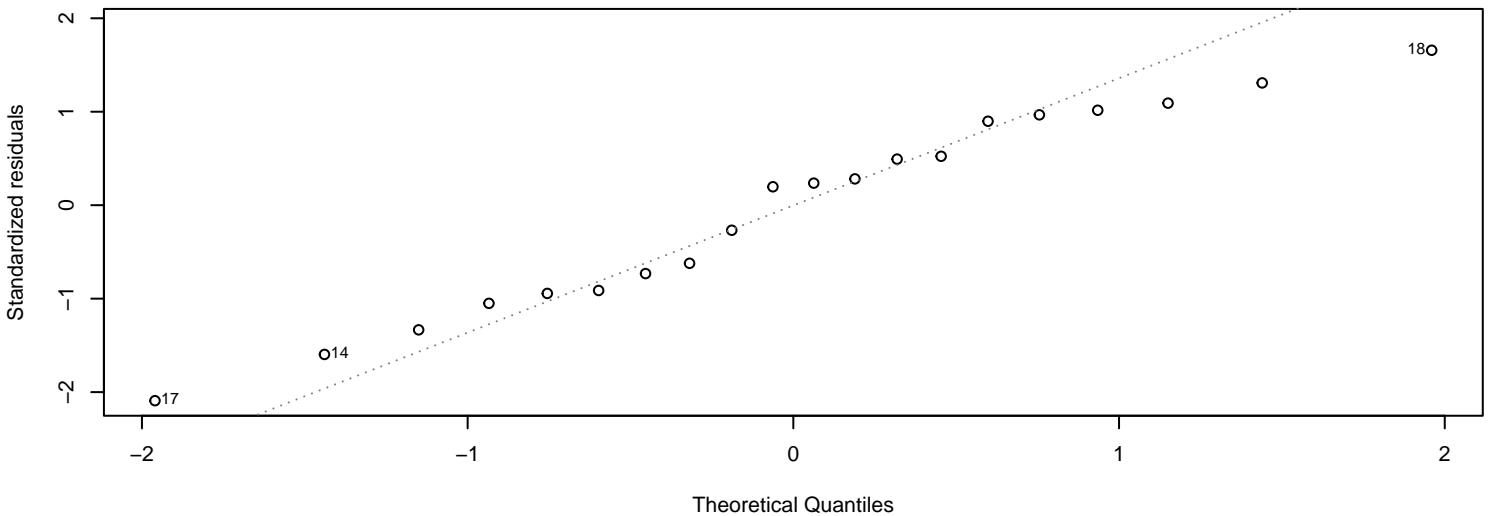
Scale–Location: woods\_sum ~ cpet\_vo2peak\_relative  
Scale–Location



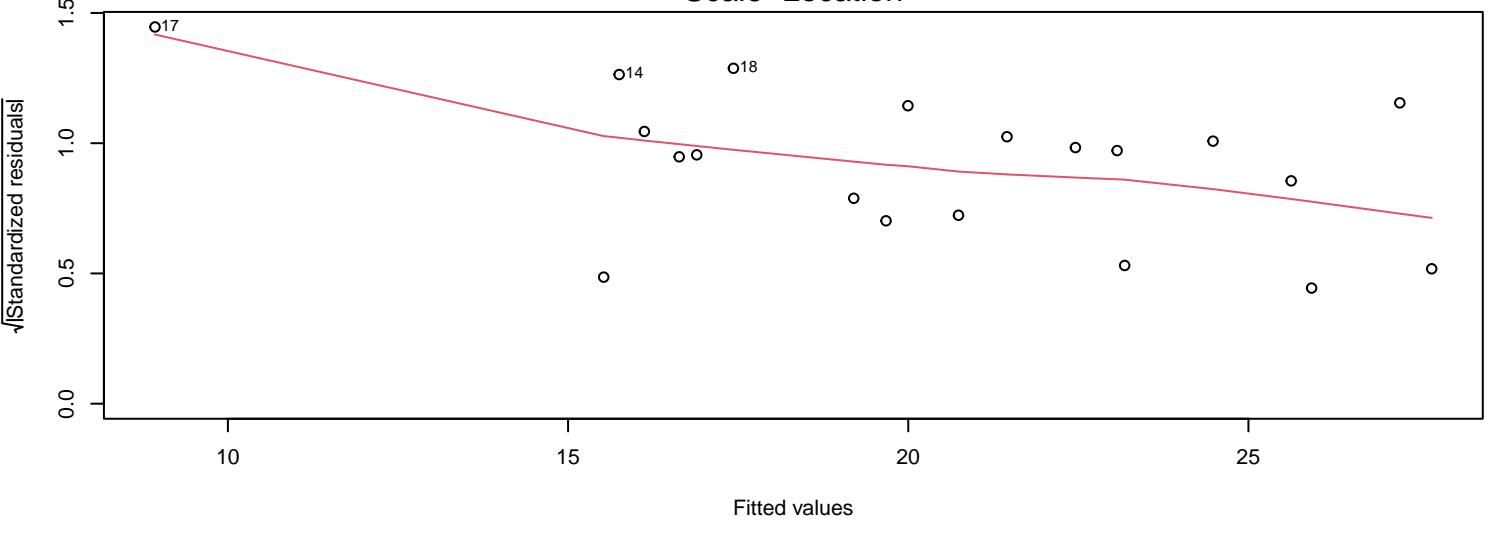
**Residuals vs Fitted: woods\_sum ~ fmd\_percent**  
Residuals vs Fitted



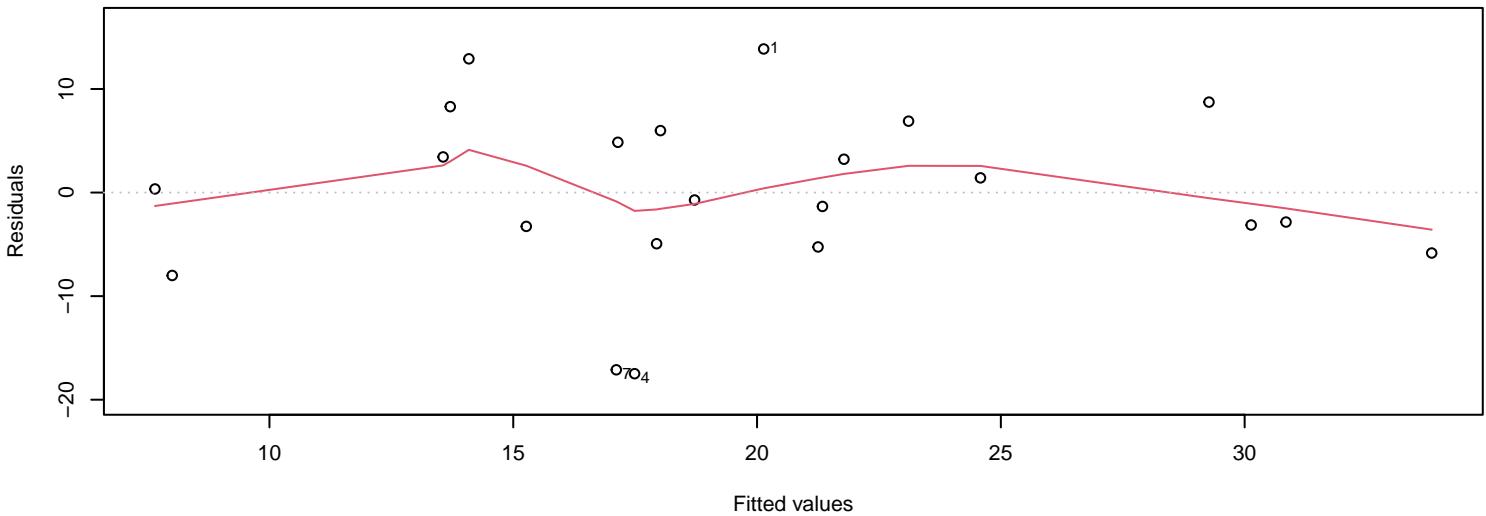
**Normal Q-Q: woods\_sum ~ fmd\_percent**  
Q-Q Residuals



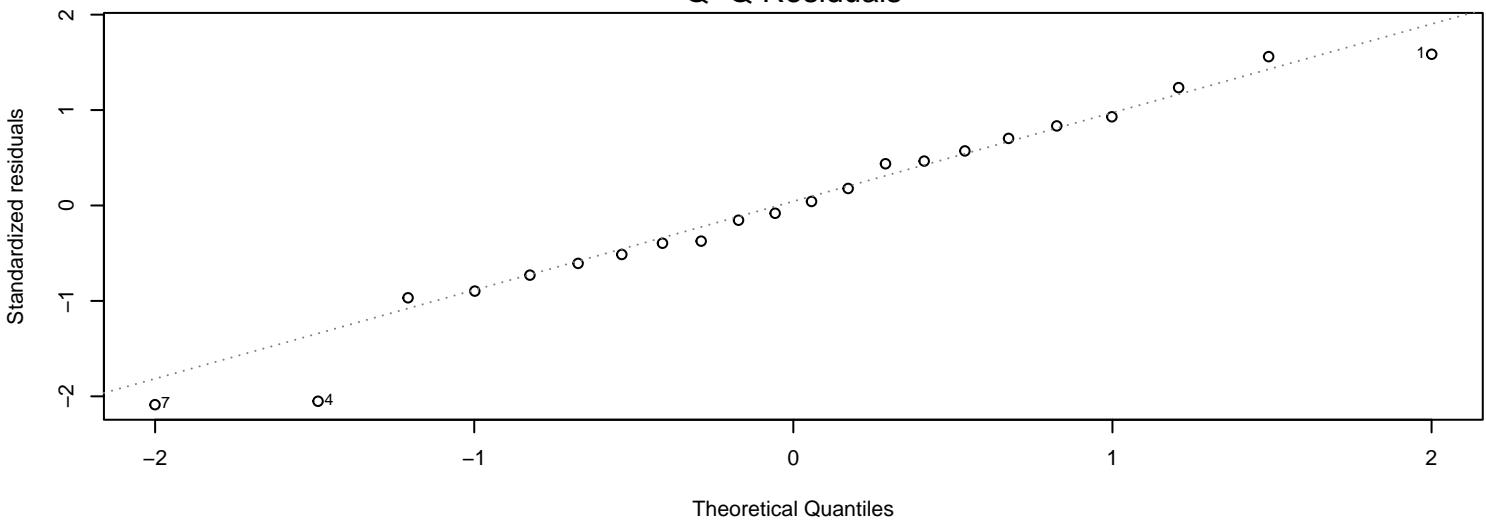
**Scale-Location: woods\_sum ~ fmd\_percent**  
Scale-Location



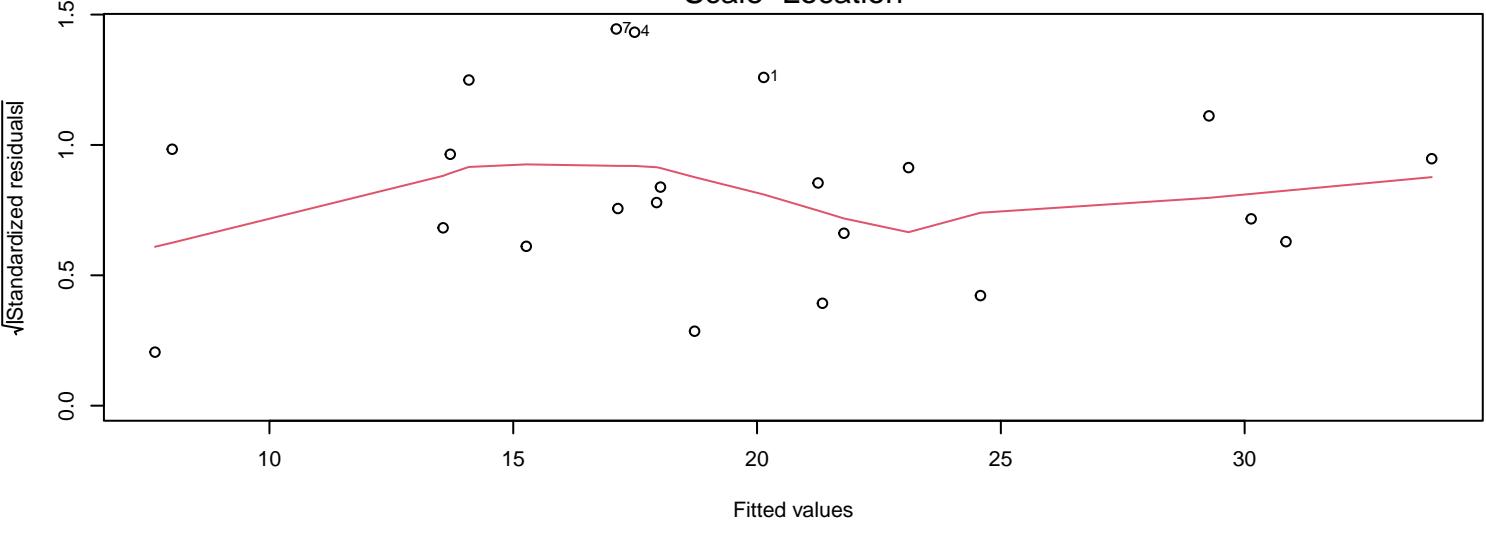
Residuals vs Fitted:  $\text{dsq\_sum} \sim \text{mip\_pre\_max}$   
Residuals vs Fitted



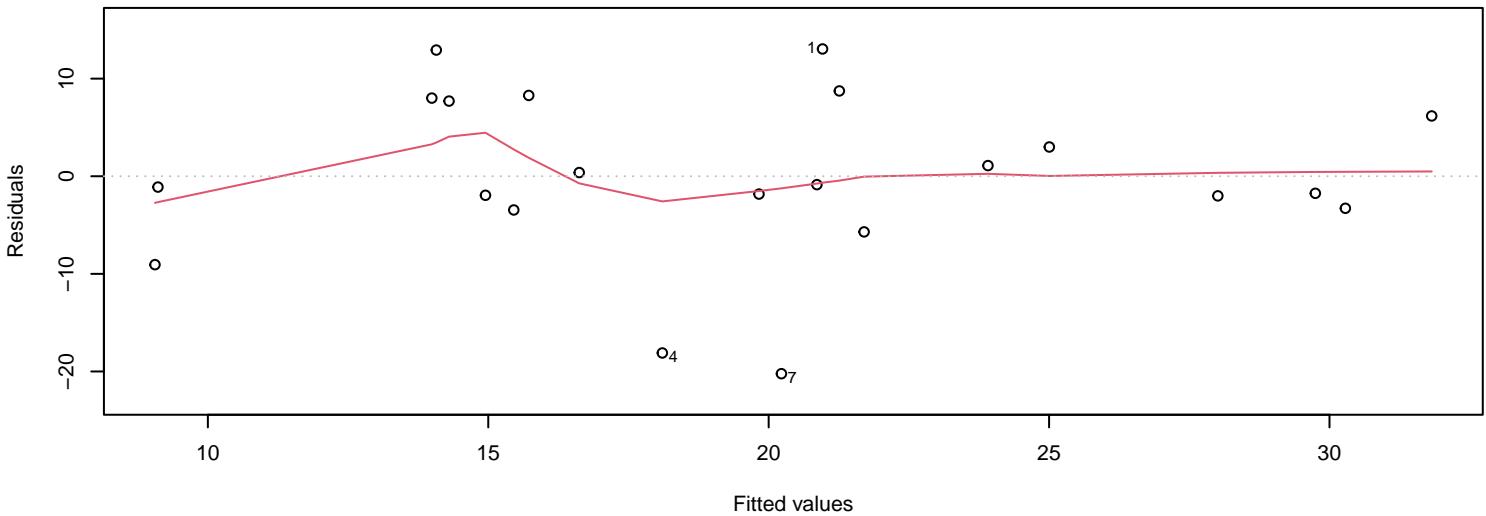
Normal Q-Q:  $\text{dsq\_sum} \sim \text{mip\_pre\_max}$   
Q-Q Residuals



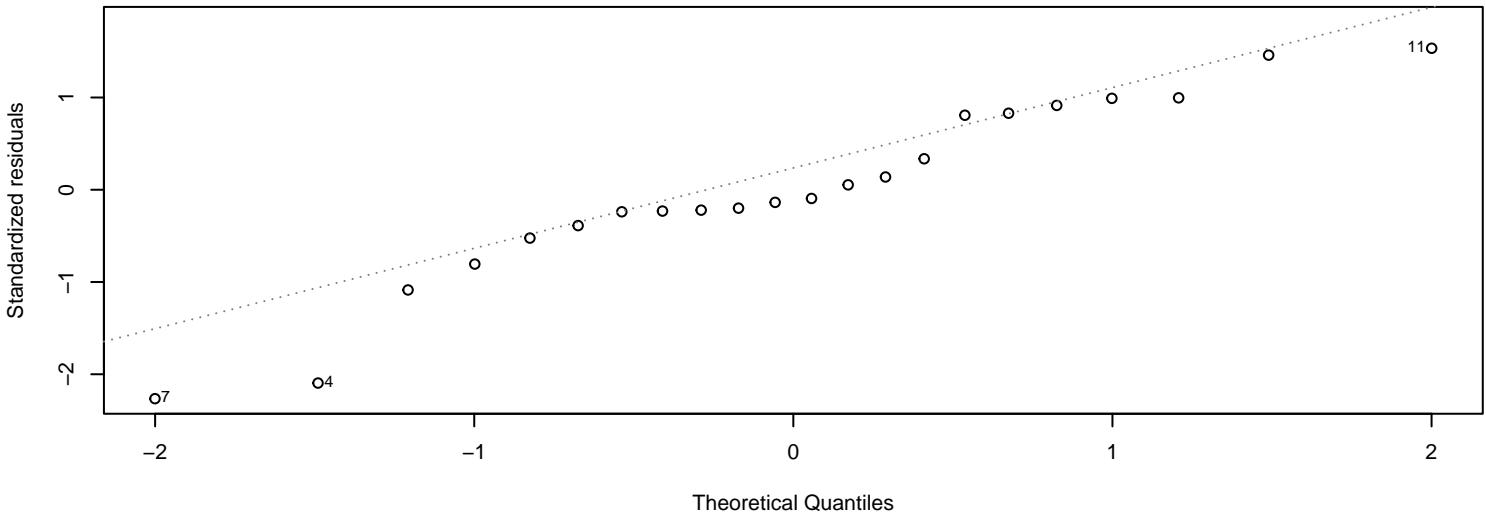
Scale-Location:  $\text{dsq\_sum} \sim \text{mip\_pre\_max}$   
Scale-Location



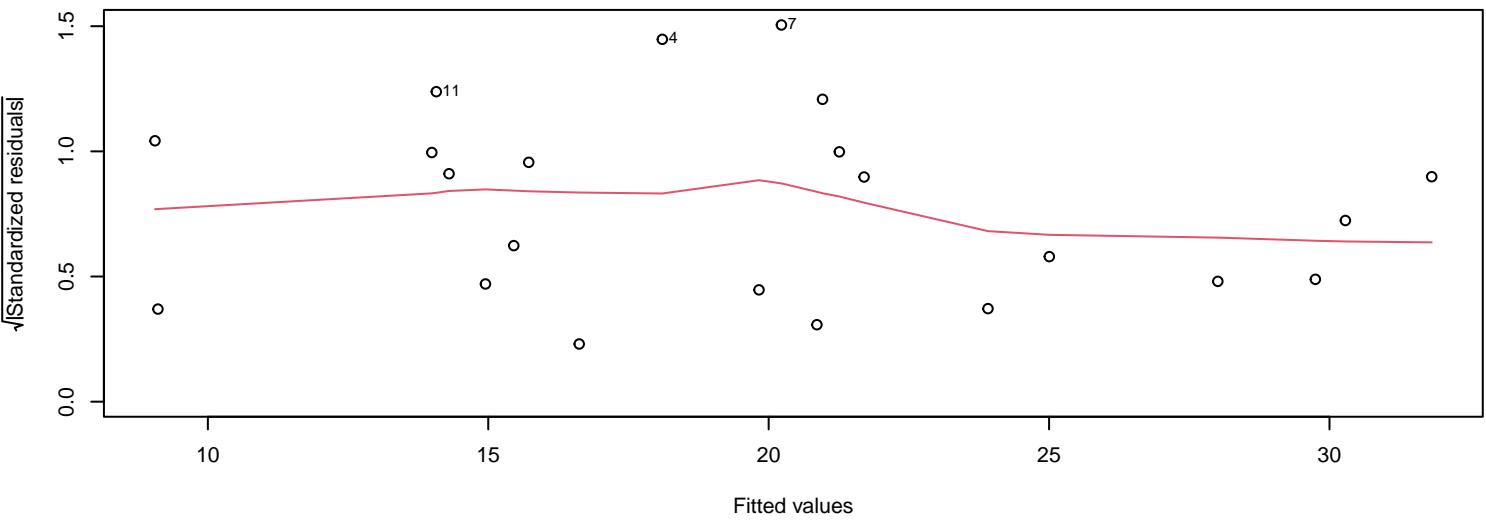
Residuals vs Fitted:  $\text{dsq\_sum} \sim \text{smip\_pre\_max}$   
Residuals vs Fitted



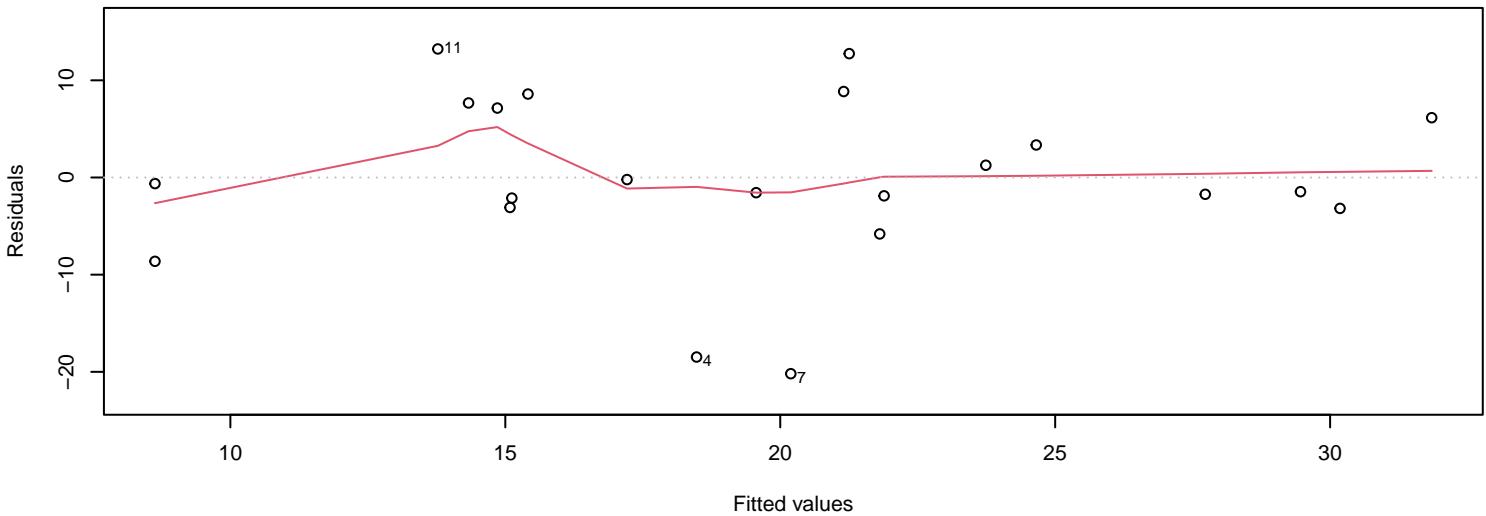
Normal Q-Q:  $\text{dsq\_sum} \sim \text{smip\_pre\_max}$   
Q-Q Residuals



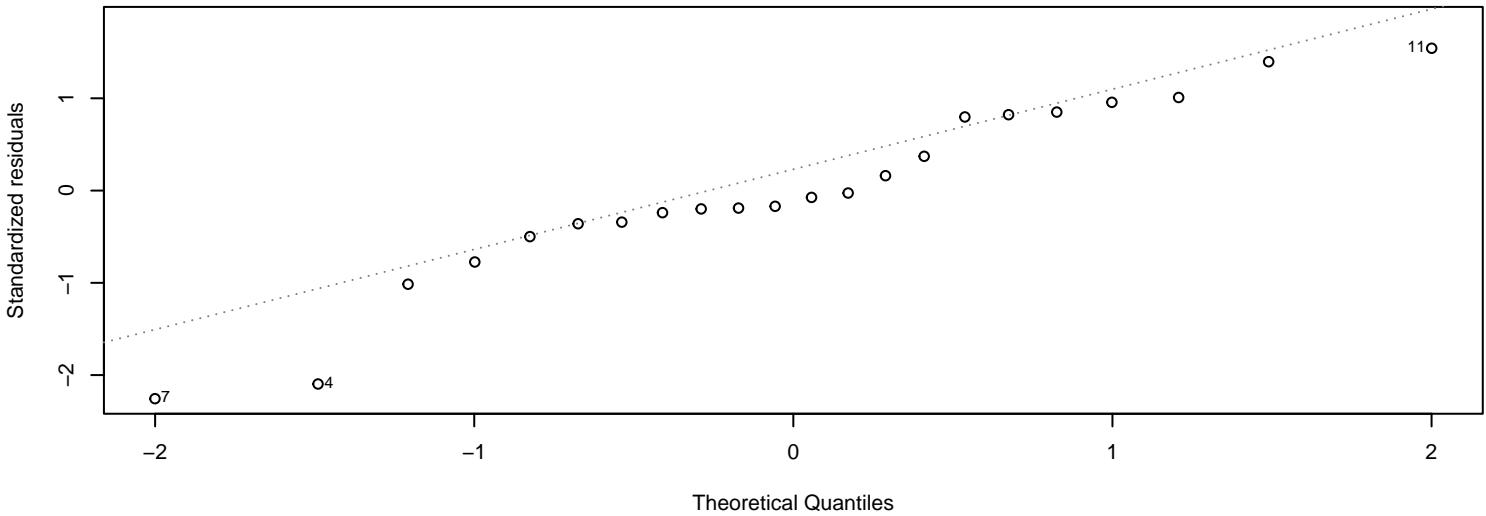
Scale-Location:  $\text{dsq\_sum} \sim \text{smip\_pre\_max}$   
Scale-Location



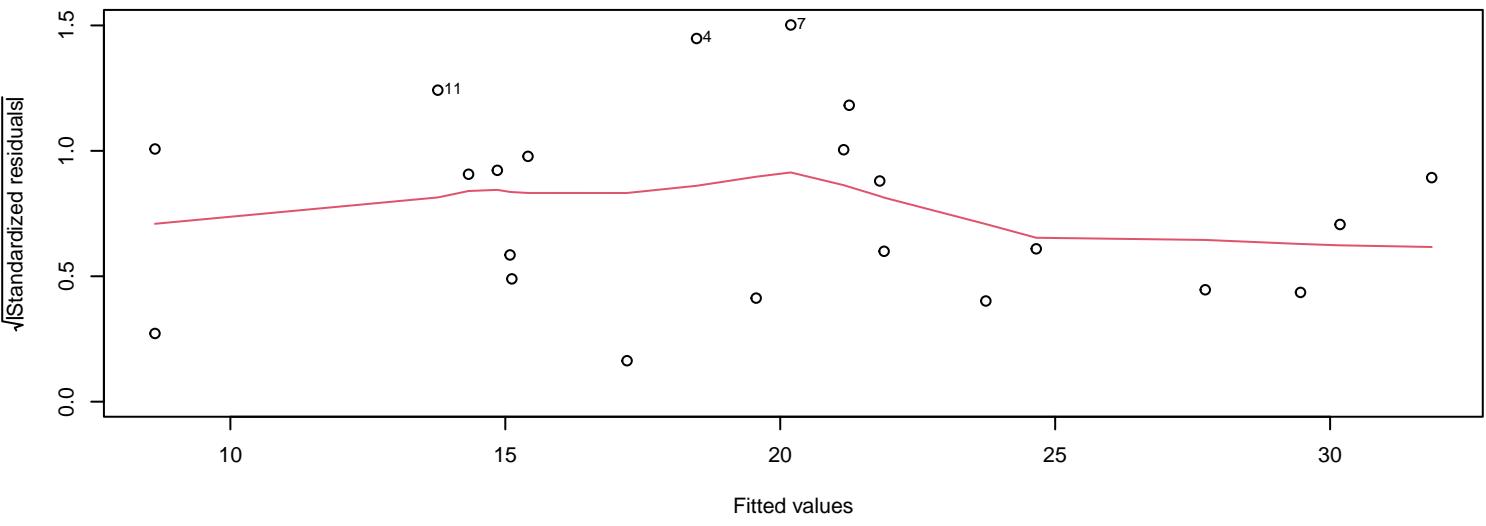
Residuals vs Fitted:  $\text{dsq\_sum} \sim \text{fit\_pre\_max}$   
Residuals vs Fitted



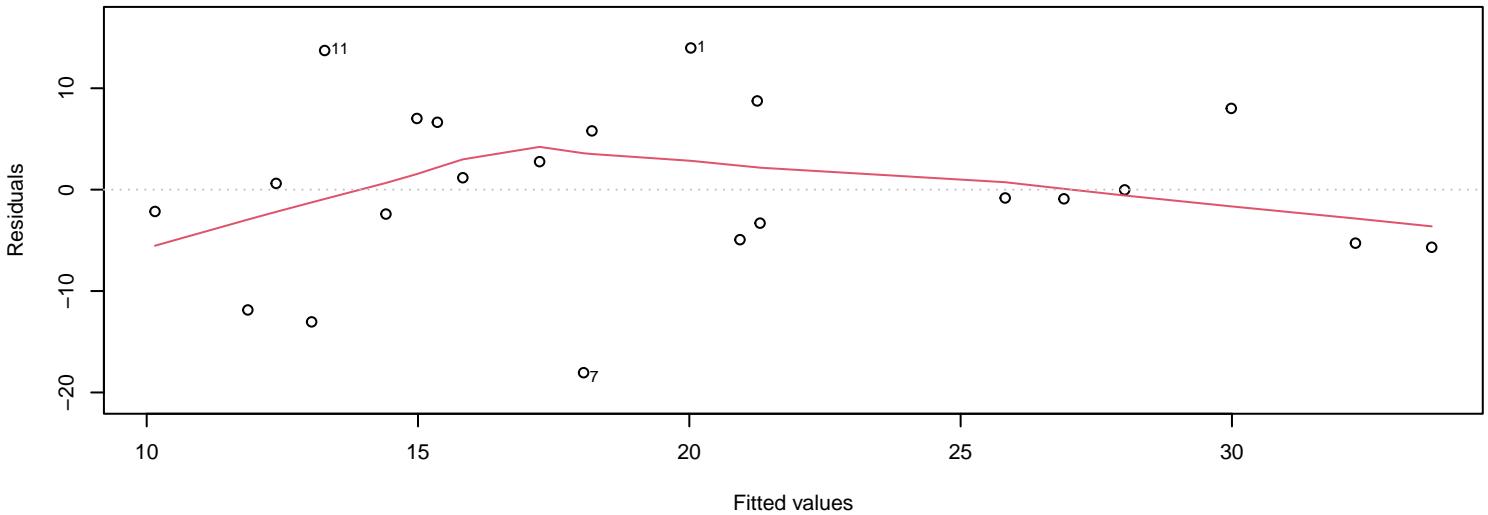
Normal Q-Q:  $\text{dsq\_sum} \sim \text{fit\_pre\_max}$   
Q-Q Residuals



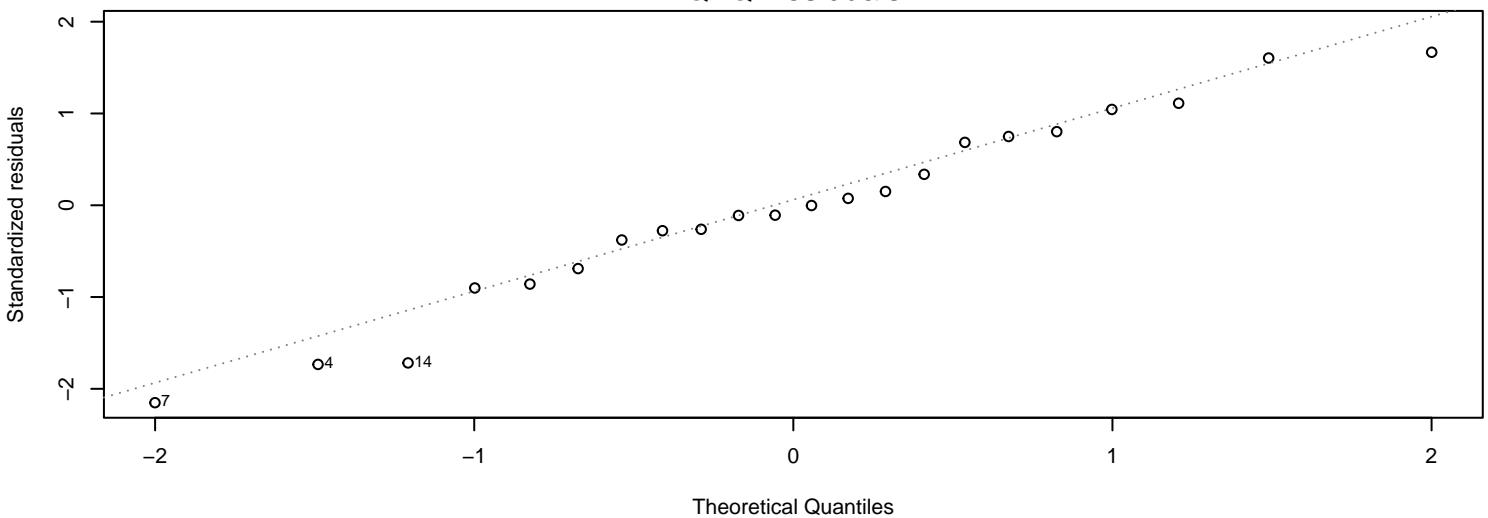
Scale–Location:  $\text{dsq\_sum} \sim \text{fit\_pre\_max}$   
Scale–Location



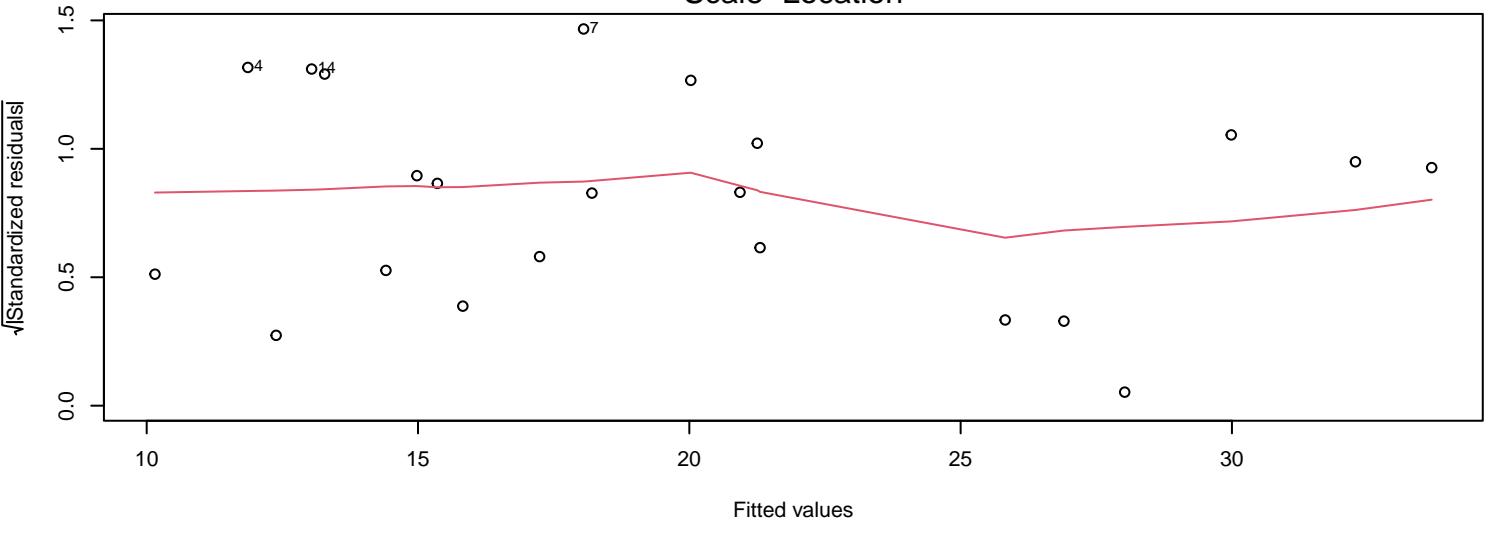
**Residuals vs Fitted: dsq\_sum ~ pif\_pre\_max**  
Residuals vs Fitted



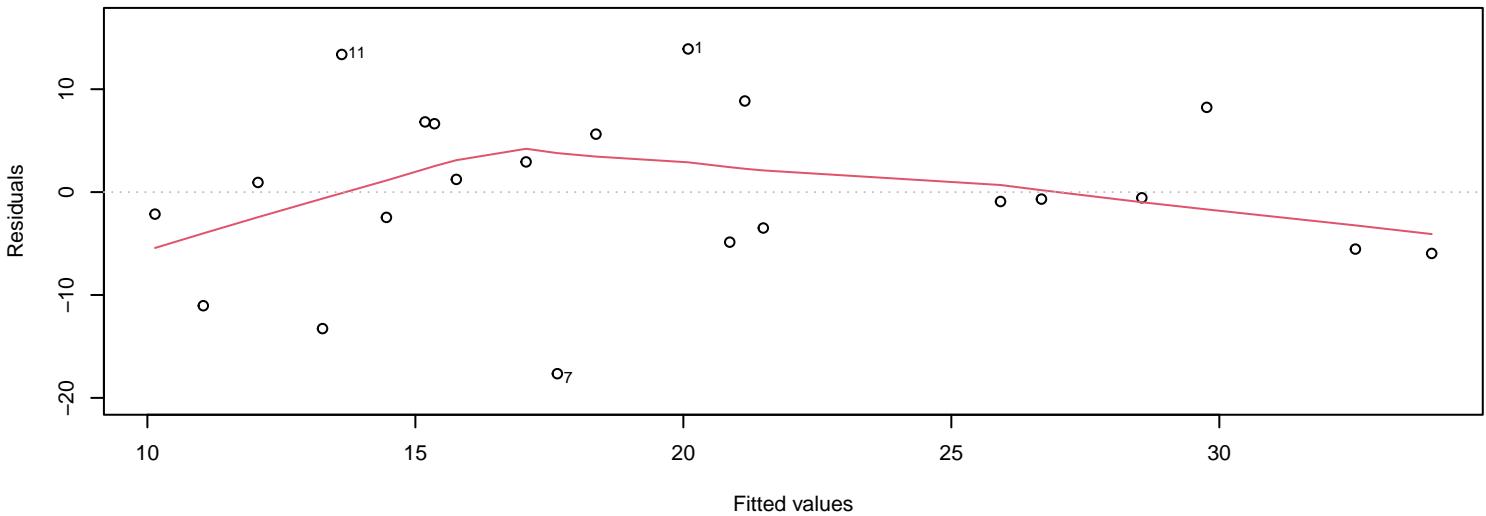
**Normal Q-Q: dsq\_sum ~ pif\_pre\_max**  
Q-Q Residuals



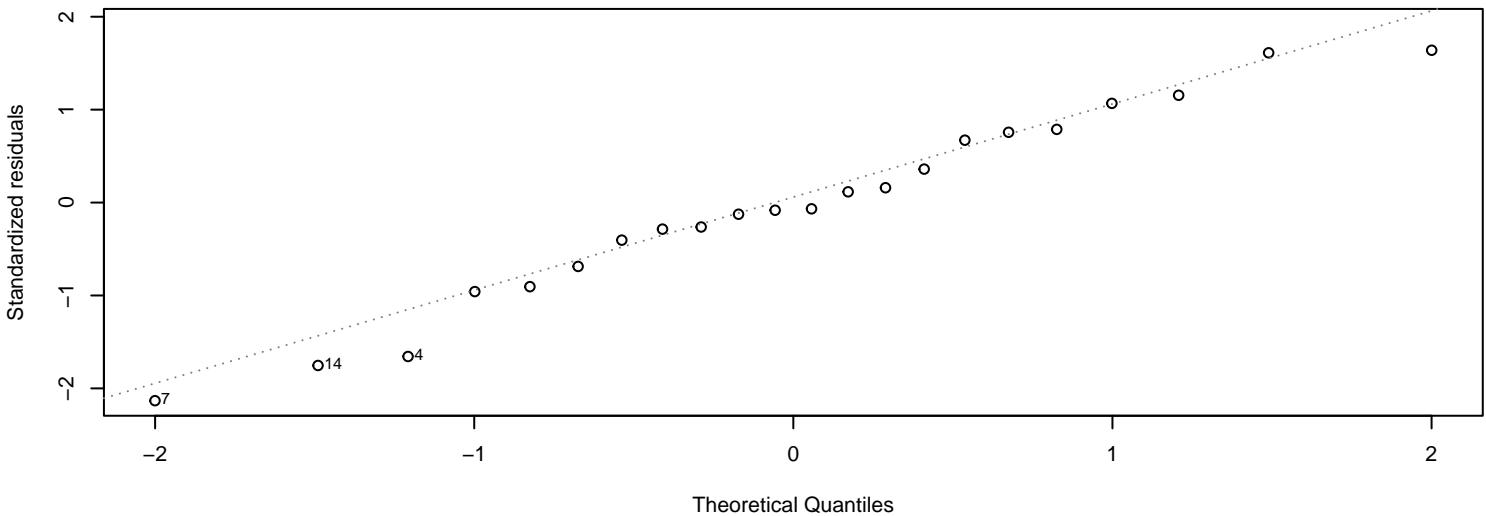
**Scale–Location: dsq\_sum ~ pif\_pre\_max**  
Scale–Location



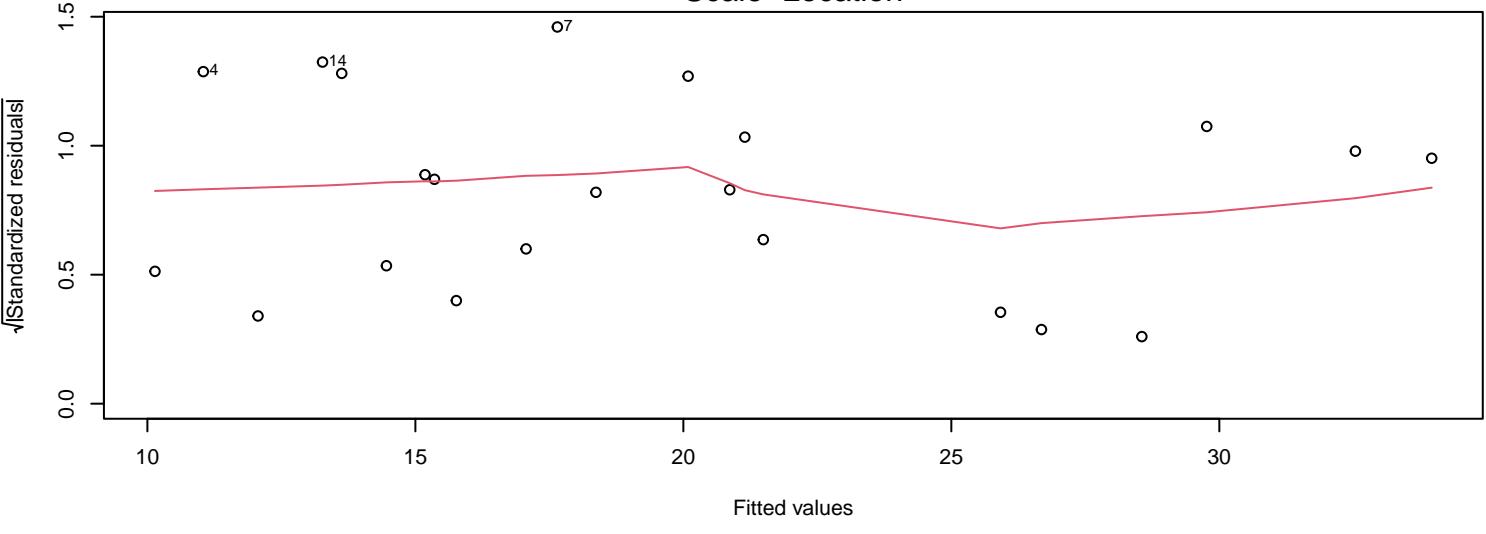
**Residuals vs Fitted: dsq\_sum ~ sindex\_pre\_max**  
Residuals vs Fitted



**Normal Q–Q: dsq\_sum ~ sindex\_pre\_max**  
Q–Q Residuals

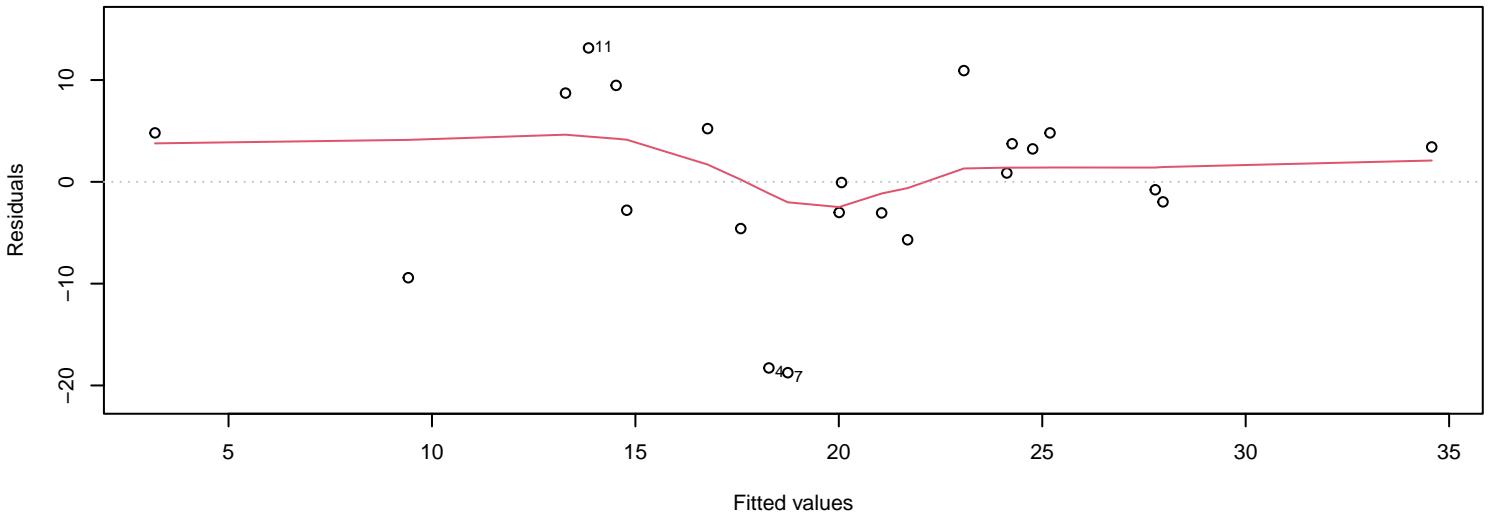


**Scale–Location: dsq\_sum ~ sindex\_pre\_max**  
Scale–Location



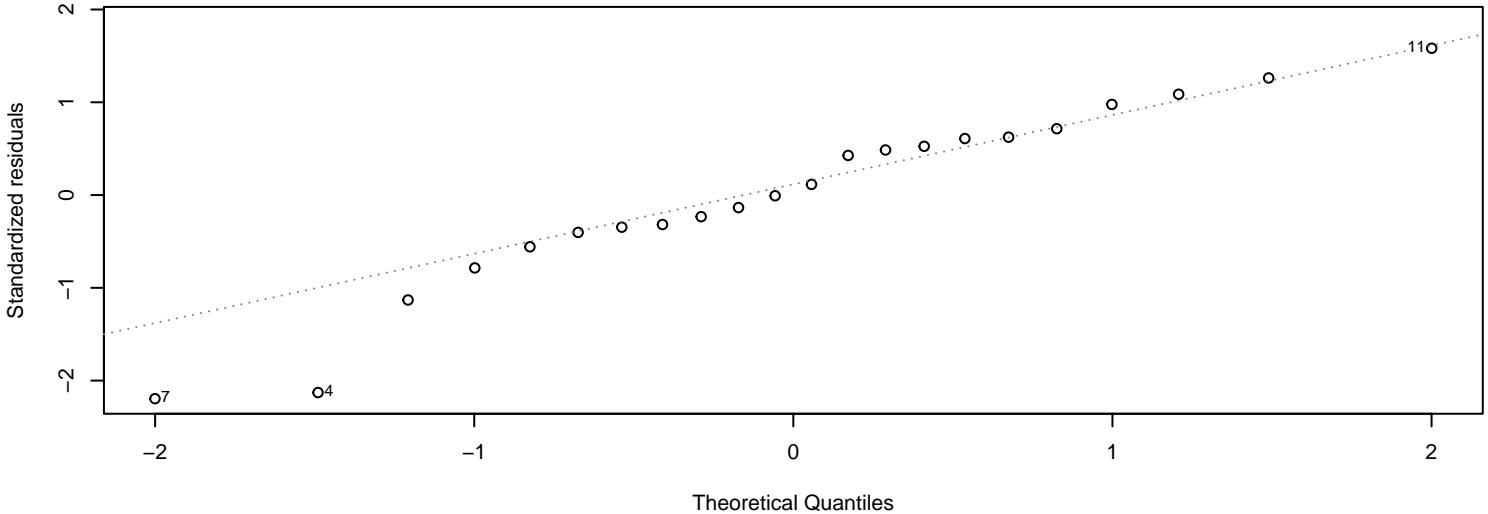
### Residuals vs Fitted: dsq\_sum ~ volume\_pre\_max

#### Residuals vs Fitted



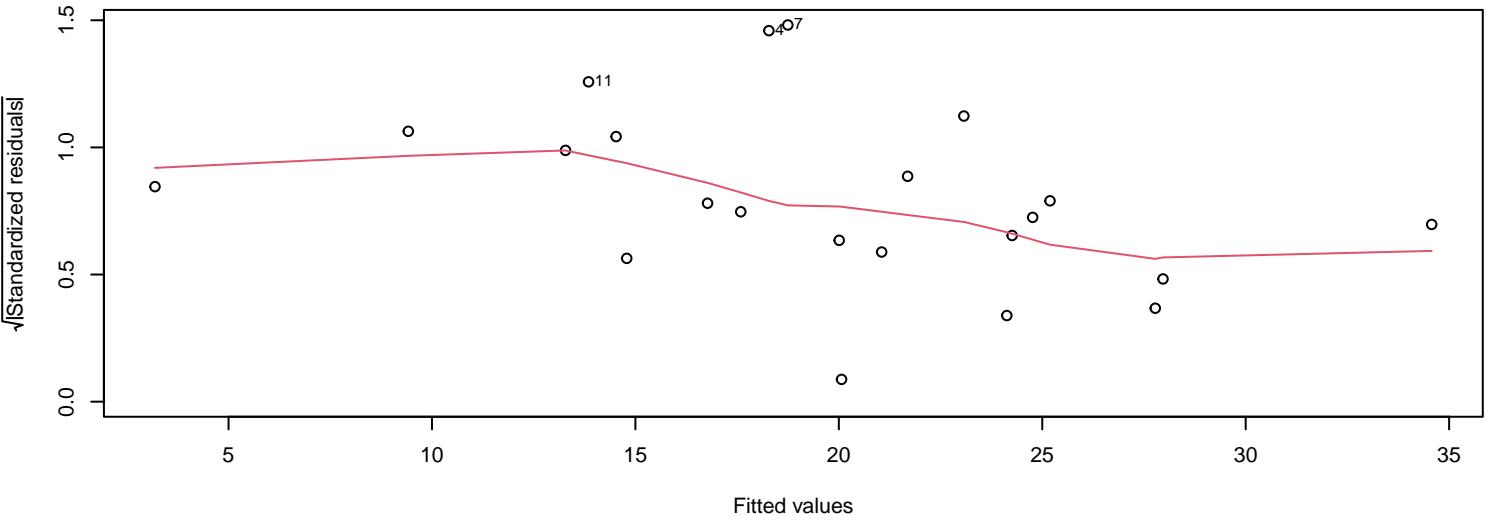
### Normal Q-Q: dsq\_sum ~ volume\_pre\_max

#### Q-Q Residuals

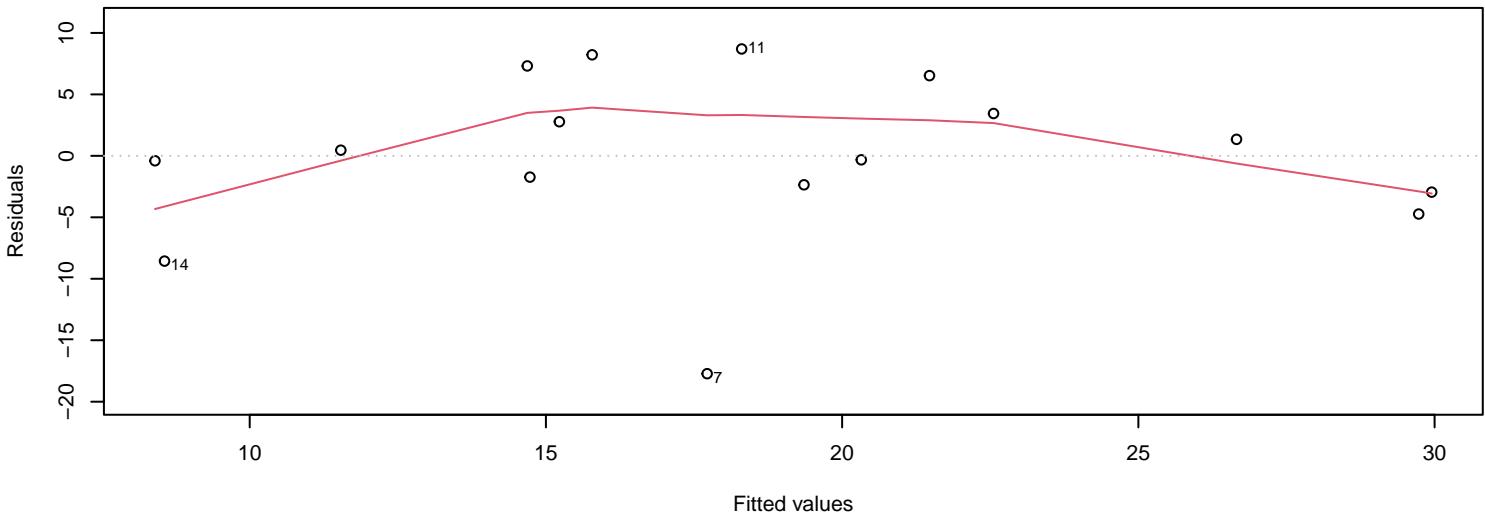


### Scale–Location: dsq\_sum ~ volume\_pre\_max

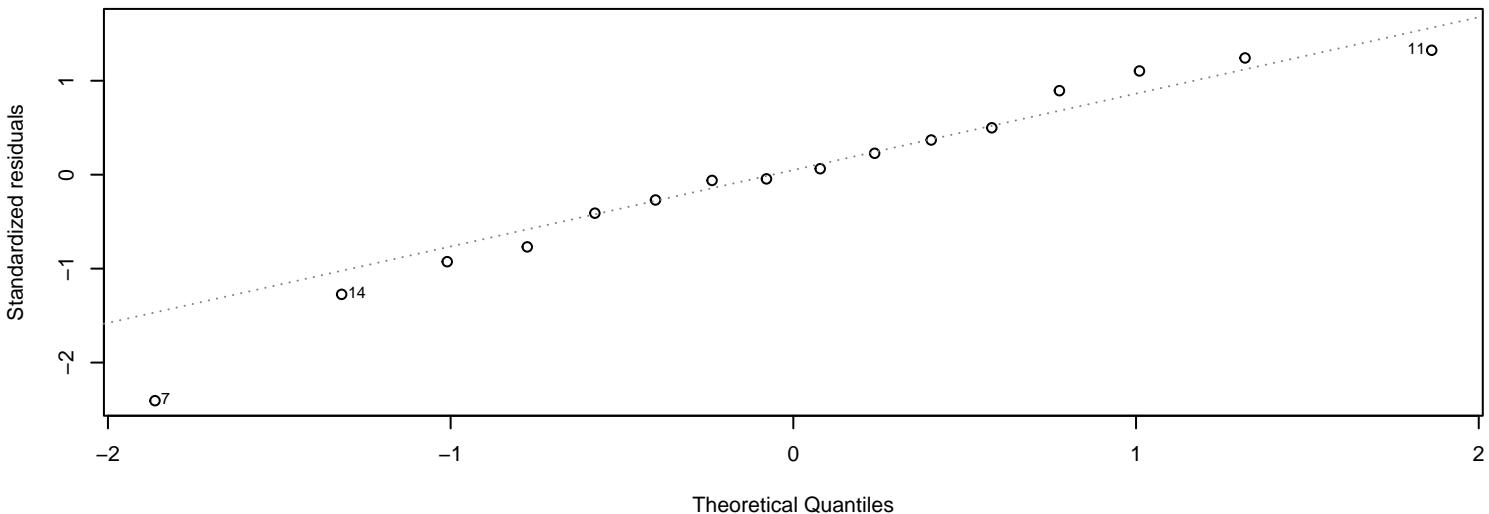
#### Scale–Location



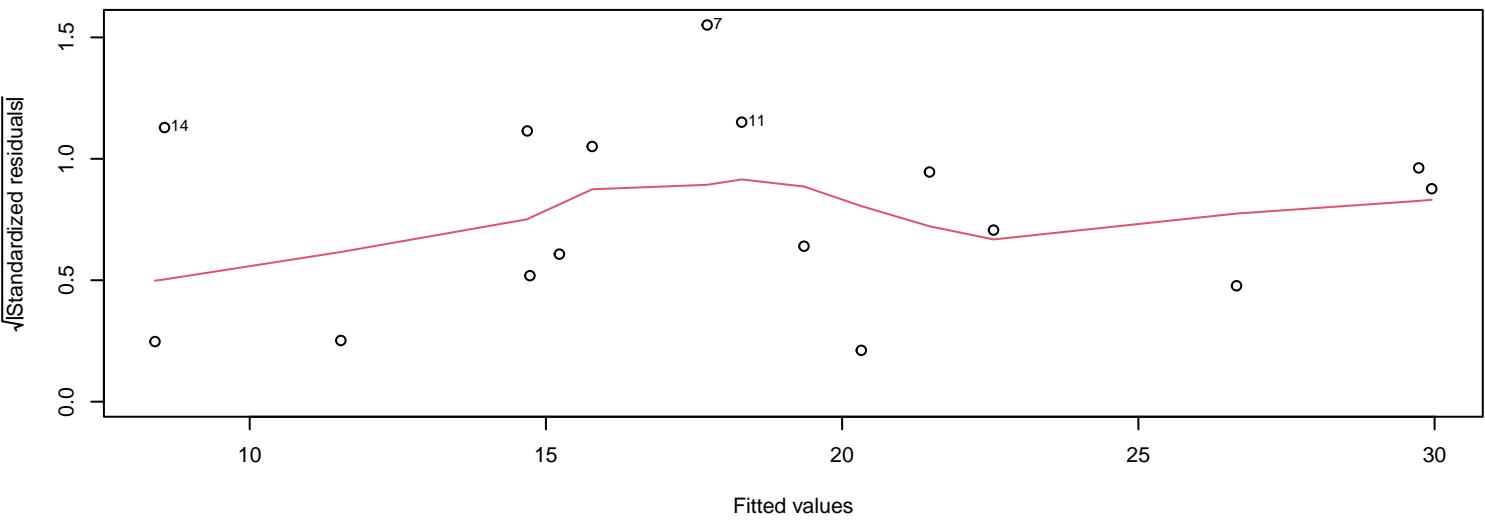
**Residuals vs Fitted: dsq\_sum ~ id\_pre\_max**  
Residuals vs Fitted



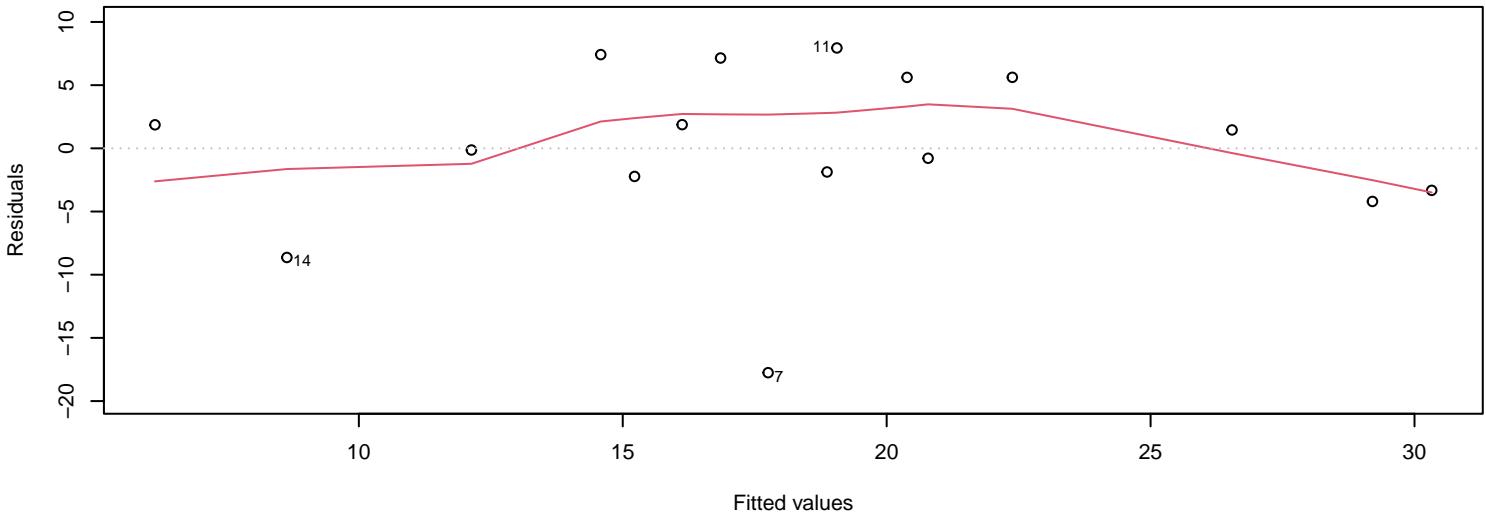
**Normal Q-Q: dsq\_sum ~ id\_pre\_max**  
Q-Q Residuals



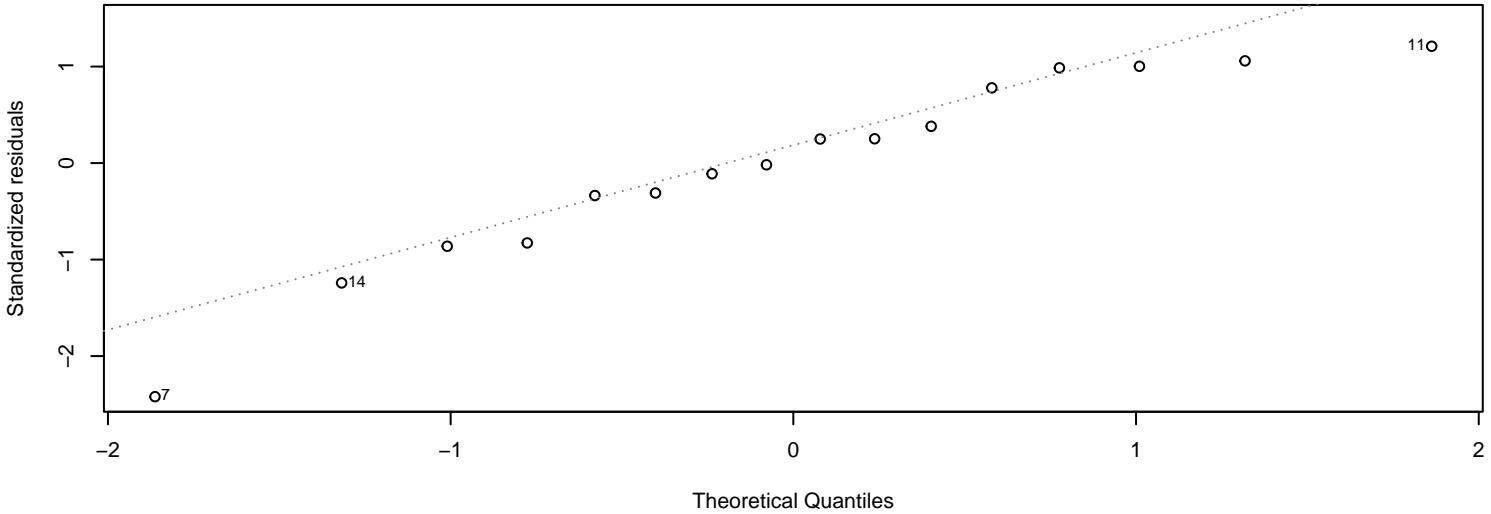
**Scale–Location: dsq\_sum ~ id\_pre\_max**  
Scale–Location



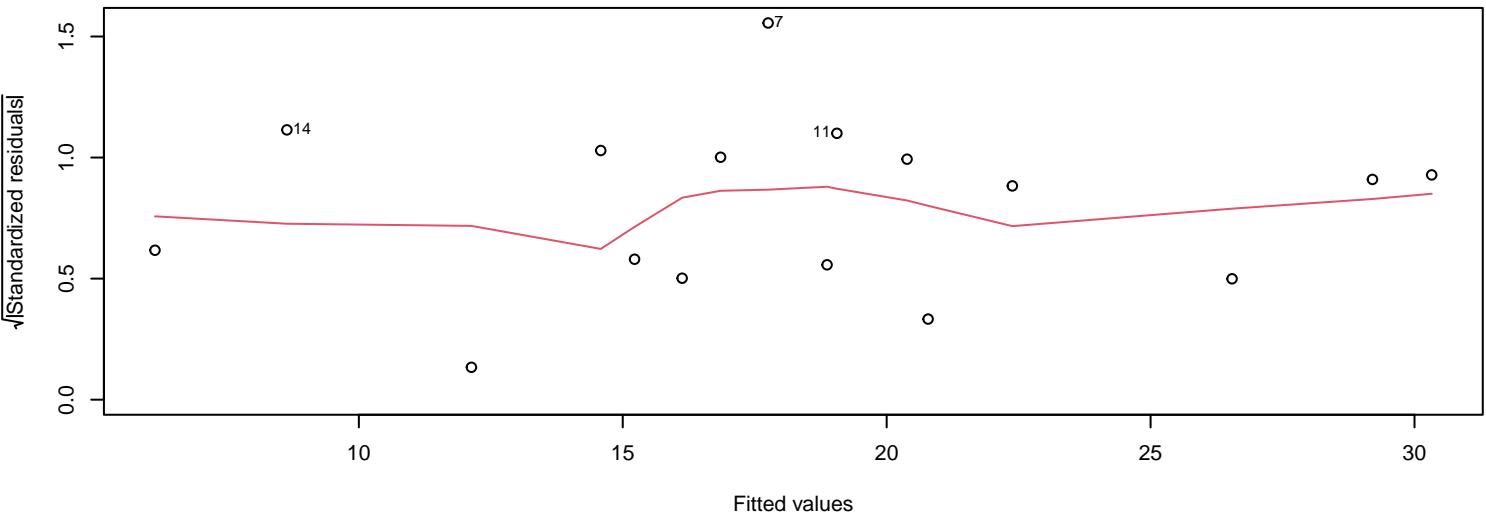
**Residuals vs Fitted: dsq\_sum ~ slopesmip\_pre\_max**  
Residuals vs Fitted



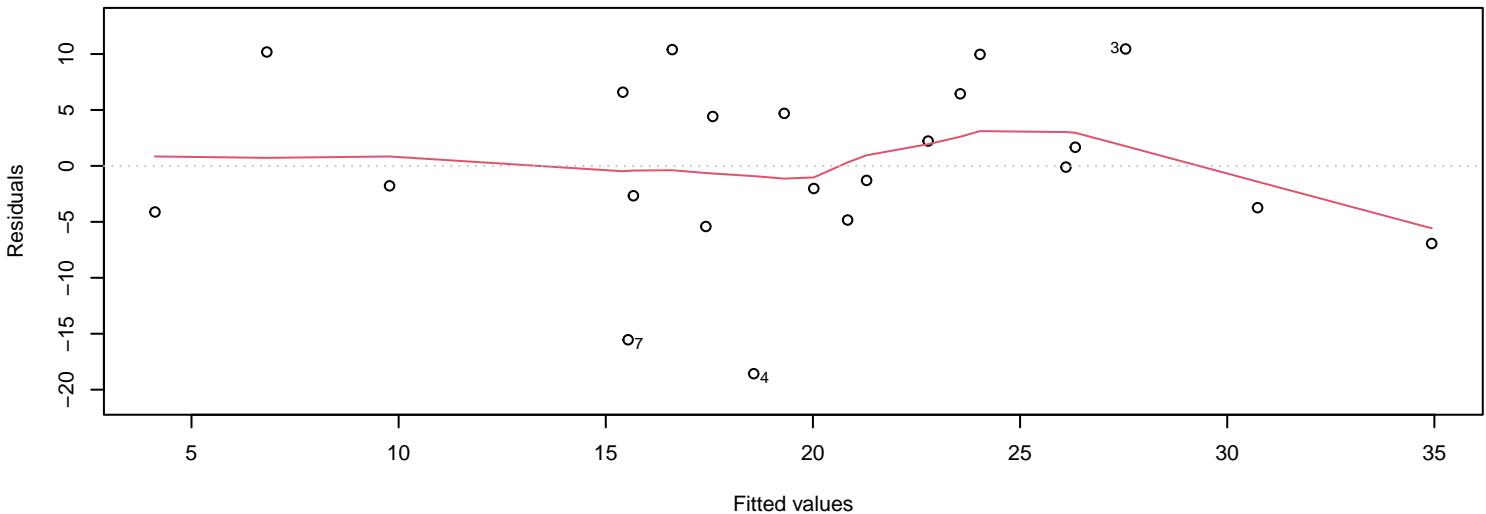
**Normal Q-Q: dsq\_sum ~ slopesmip\_pre\_max**  
Q-Q Residuals



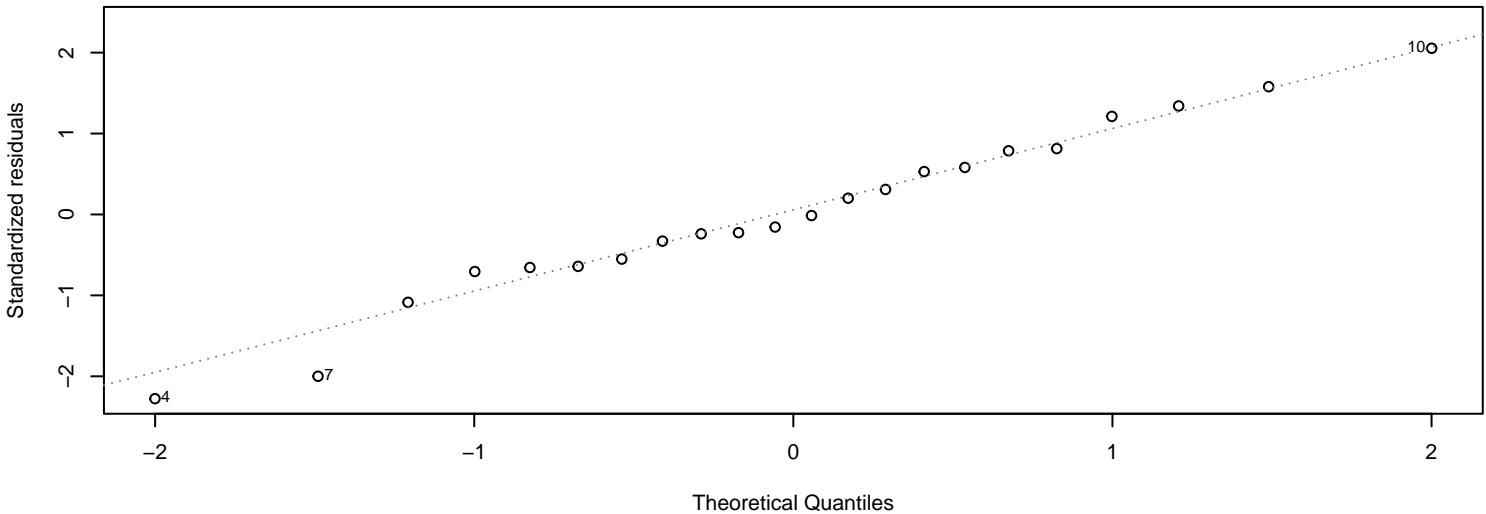
**Scale–Location: dsq\_sum ~ slopesmip\_pre\_max**  
Scale–Location



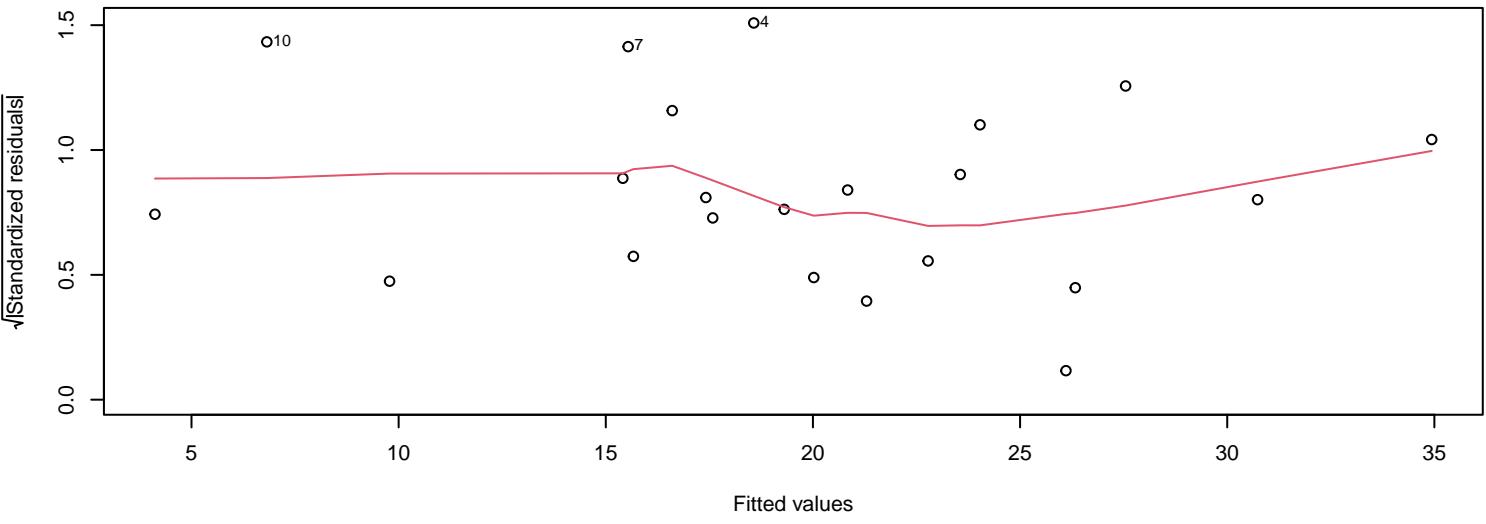
Residuals vs Fitted:  $\text{dsq\_sum} \sim \text{mip\_post\_max}$   
Residuals vs Fitted



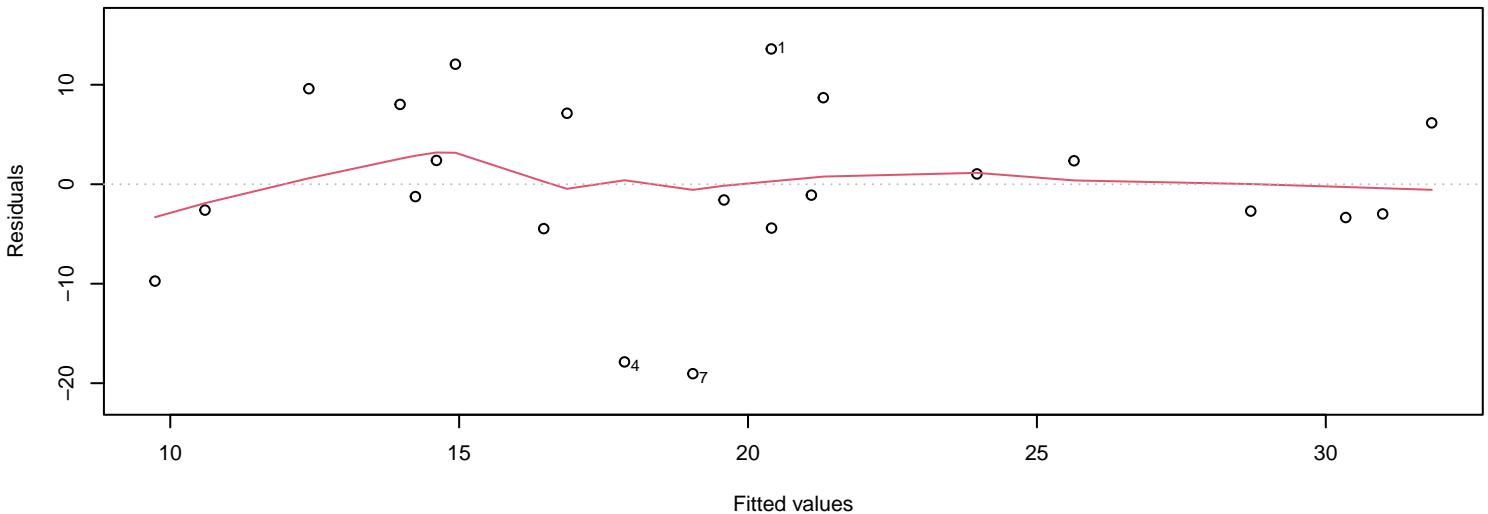
Normal Q-Q:  $\text{dsq\_sum} \sim \text{mip\_post\_max}$   
Q-Q Residuals



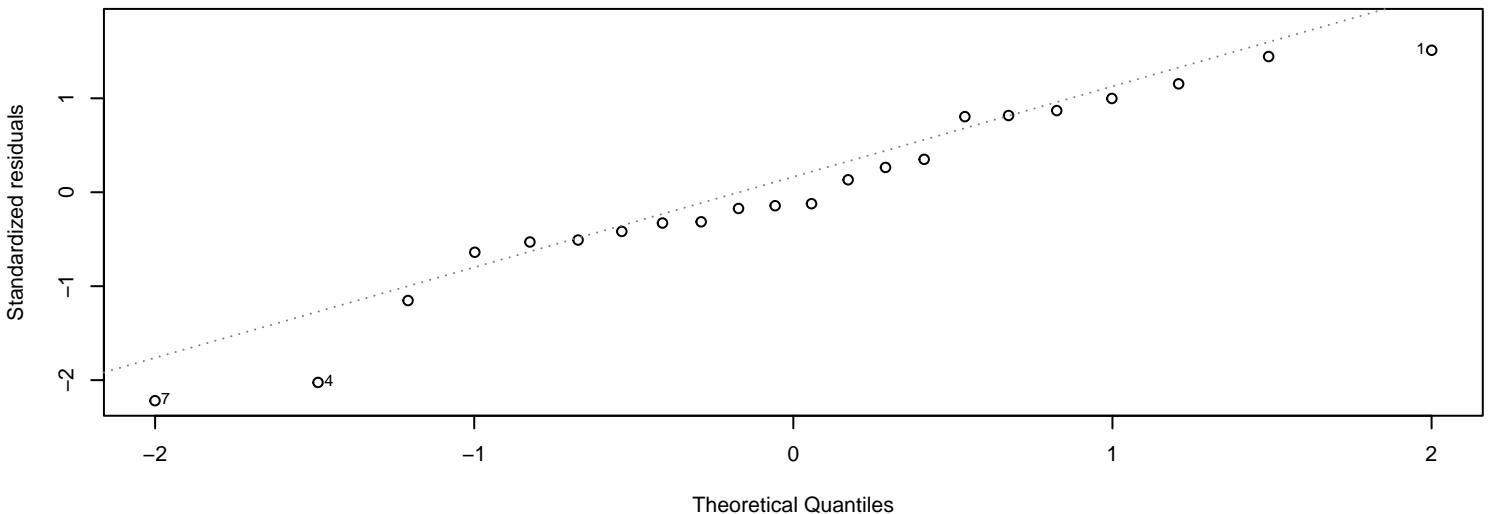
Scale-Location:  $\text{dsq\_sum} \sim \text{mip\_post\_max}$   
Scale-Location



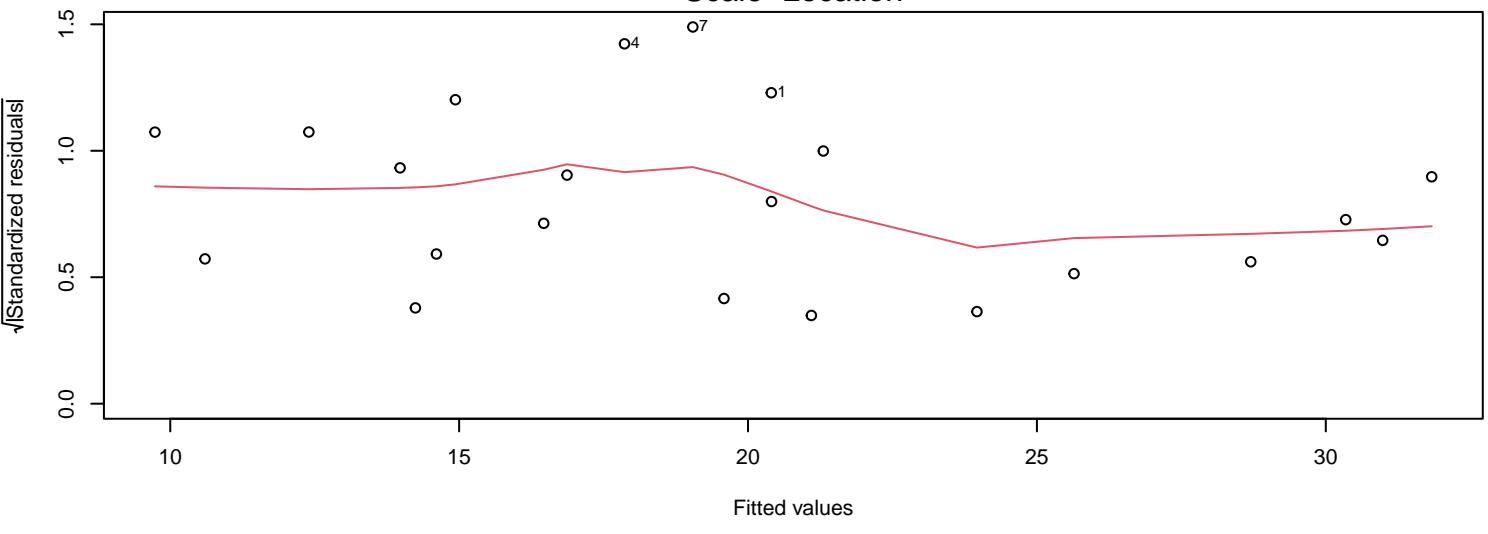
Residuals vs Fitted:  $\text{dsq\_sum} \sim \text{smip\_post\_max}$   
Residuals vs Fitted



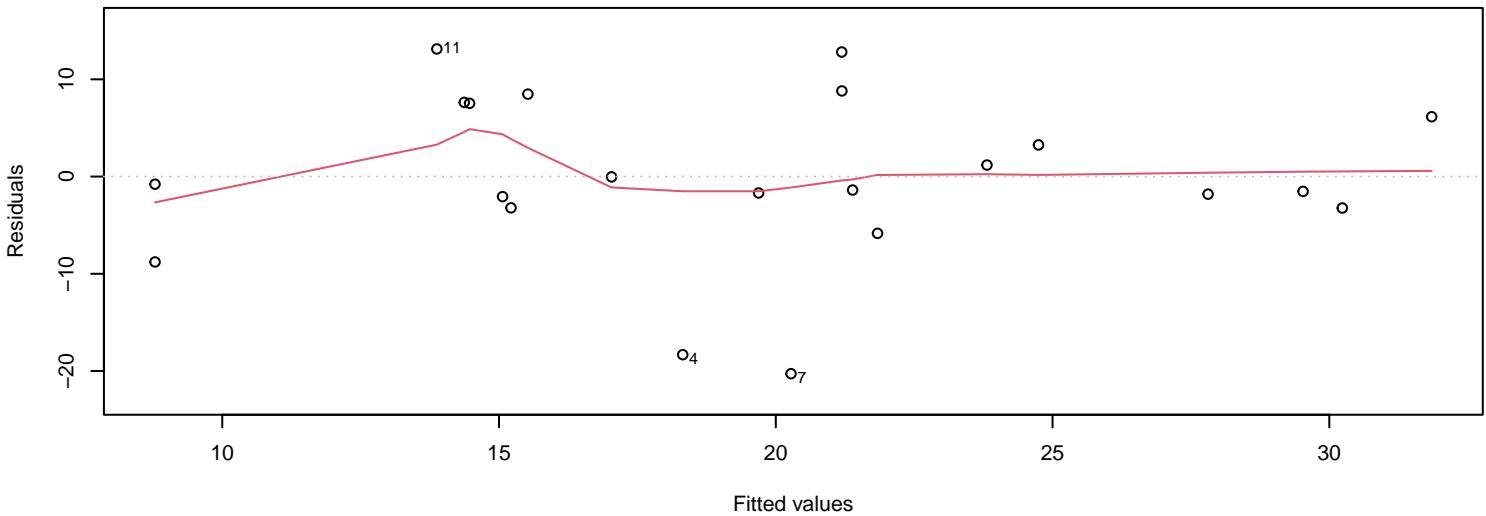
Normal Q-Q:  $\text{dsq\_sum} \sim \text{smip\_post\_max}$   
Q-Q Residuals



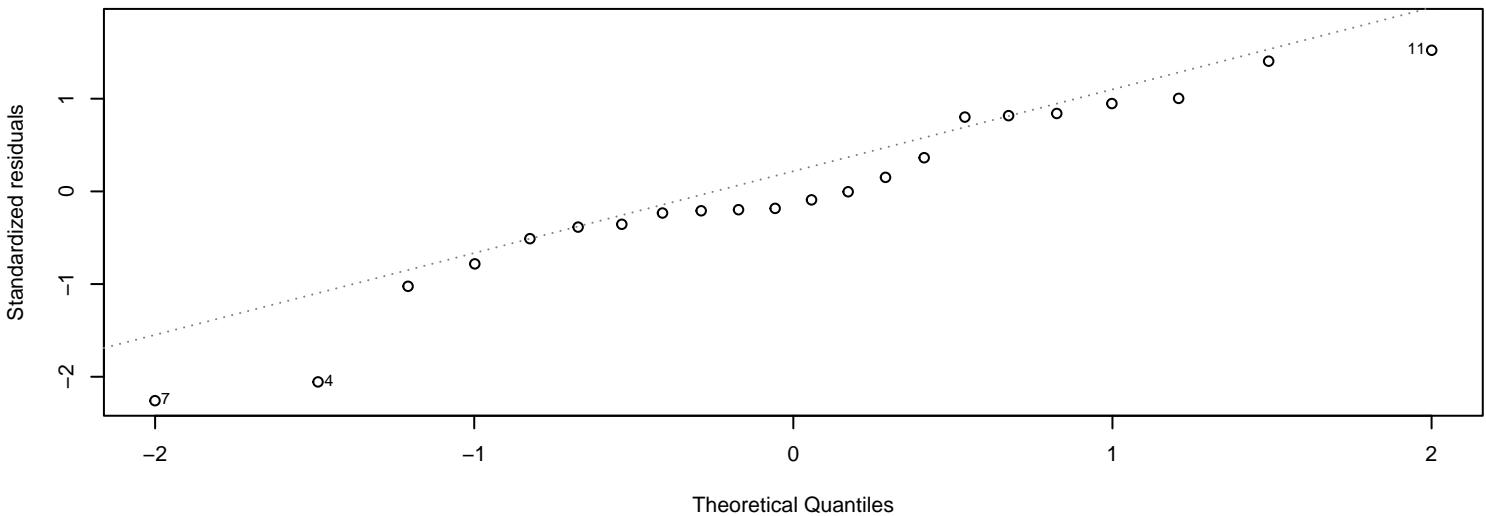
Scale–Location:  $\text{dsq\_sum} \sim \text{smip\_post\_max}$   
Scale–Location



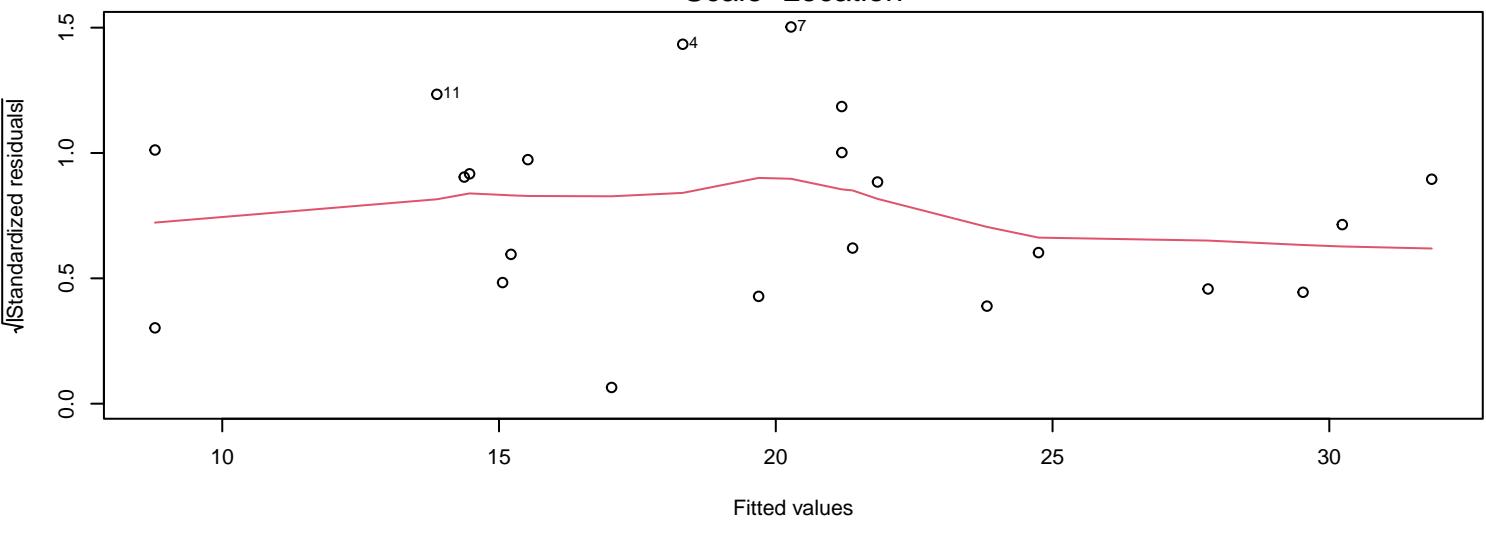
**Residuals vs Fitted: dsq\_sum ~ fit\_post\_max**  
Residuals vs Fitted



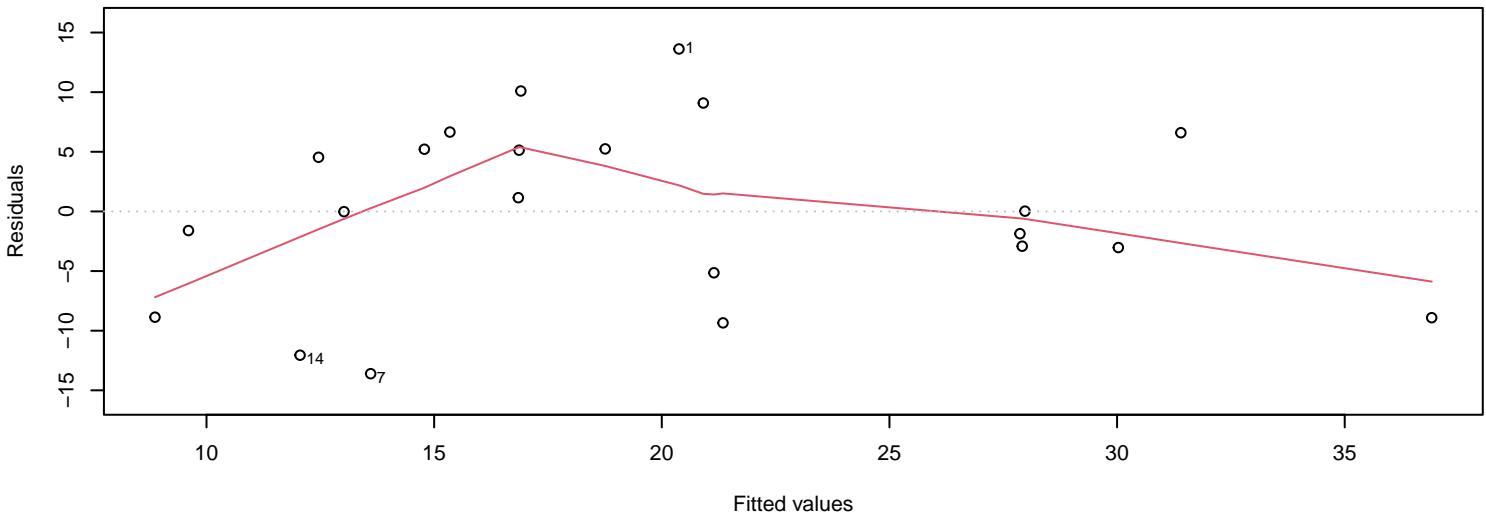
**Normal Q-Q: dsq\_sum ~ fit\_post\_max**  
Q-Q Residuals



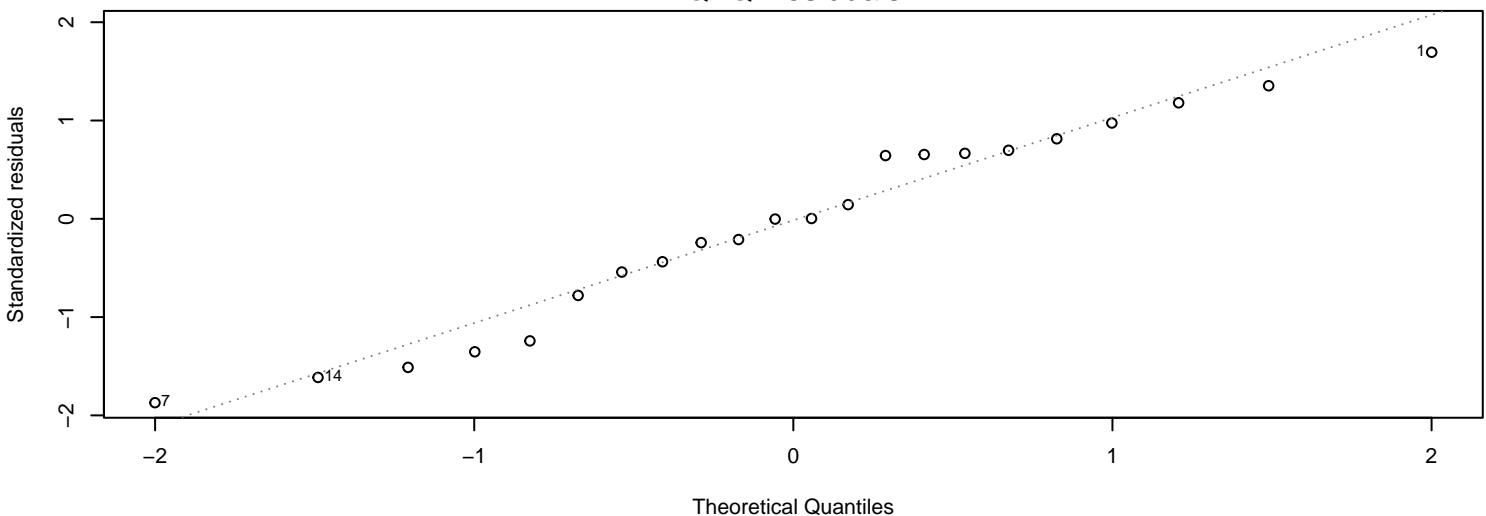
**Scale-Location: dsq\_sum ~ fit\_post\_max**  
Scale-Location



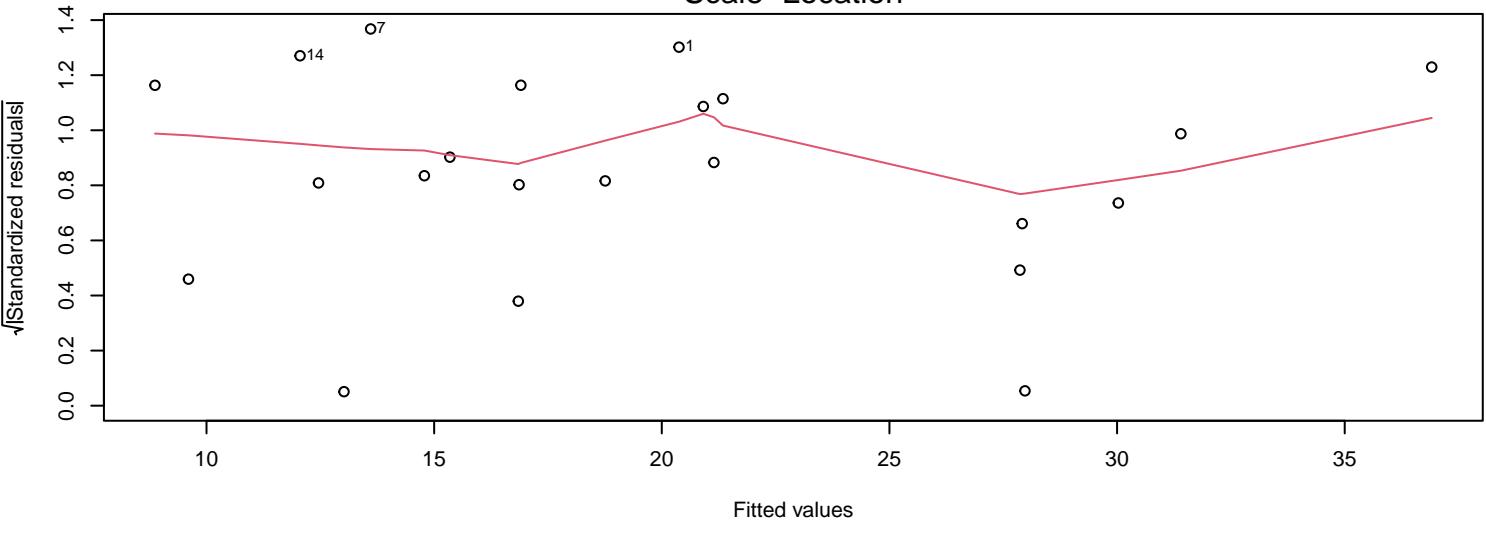
Residuals vs Fitted:  $\text{dsq\_sum} \sim \text{pif\_post\_max}$   
Residuals vs Fitted



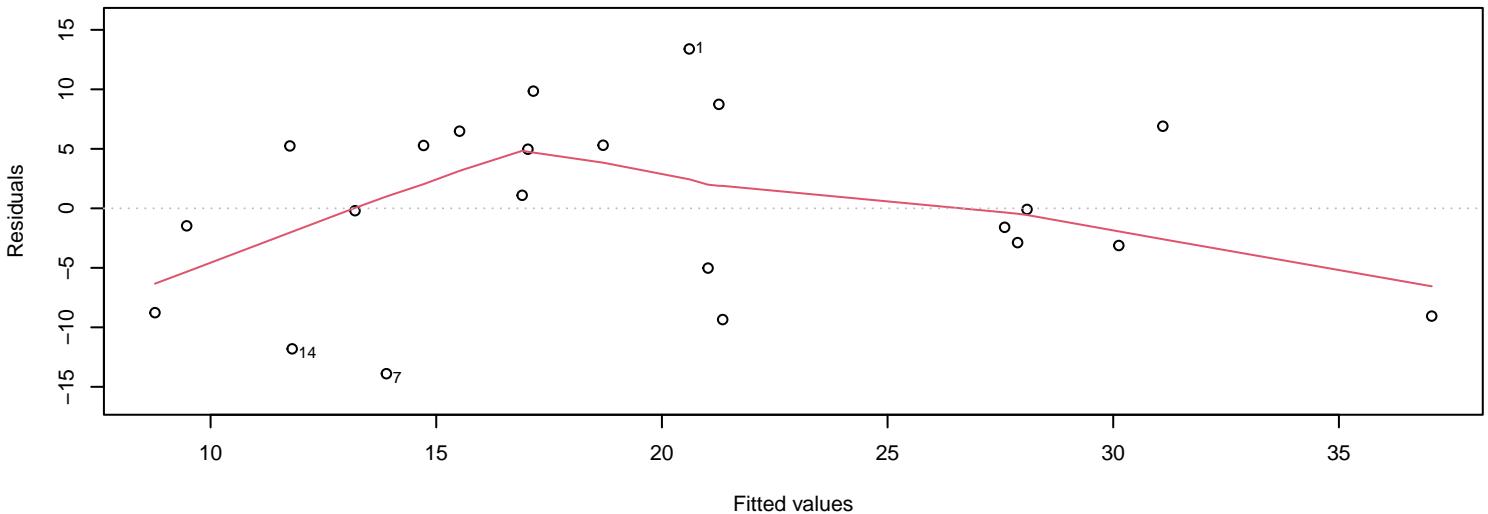
Normal Q-Q:  $\text{dsq\_sum} \sim \text{pif\_post\_max}$   
Q-Q Residuals



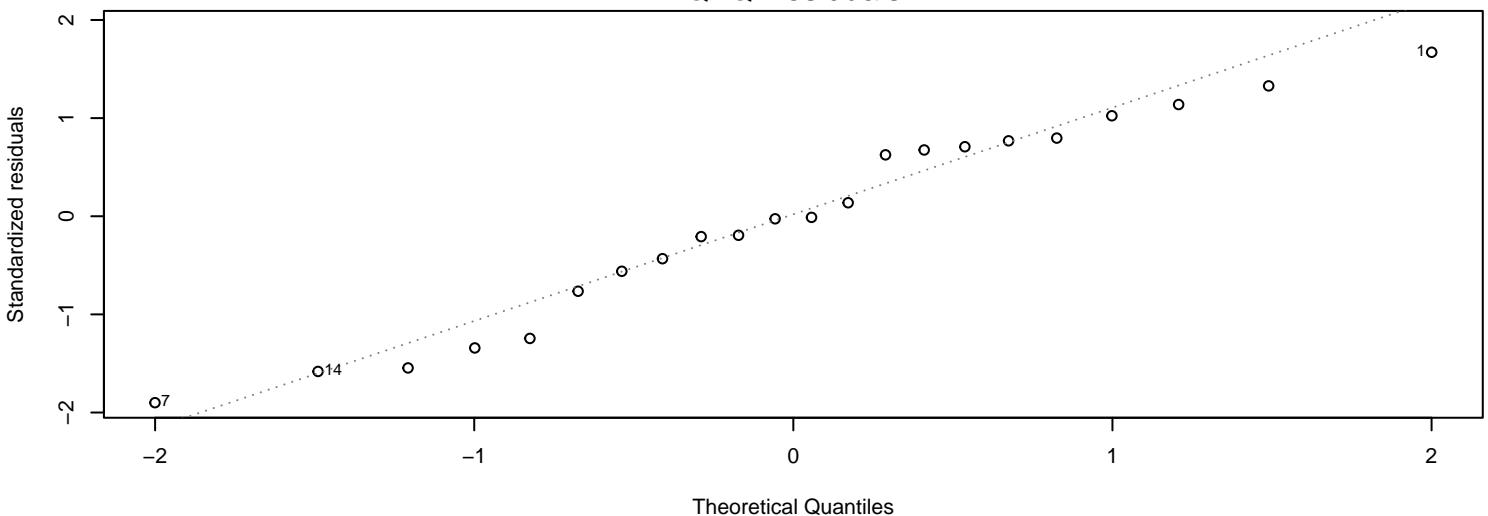
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Scale-Location



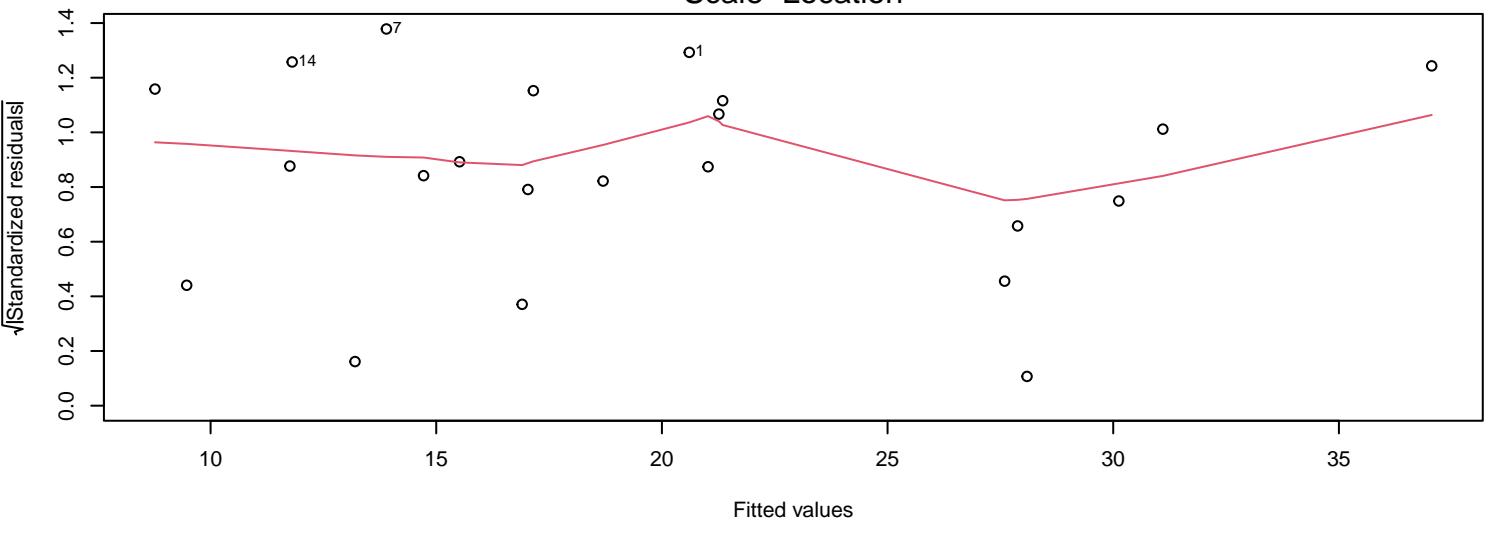
Residuals vs Fitted:  $\text{dsq\_sum} \sim \text{sindex\_post\_max}$   
Residuals vs Fitted



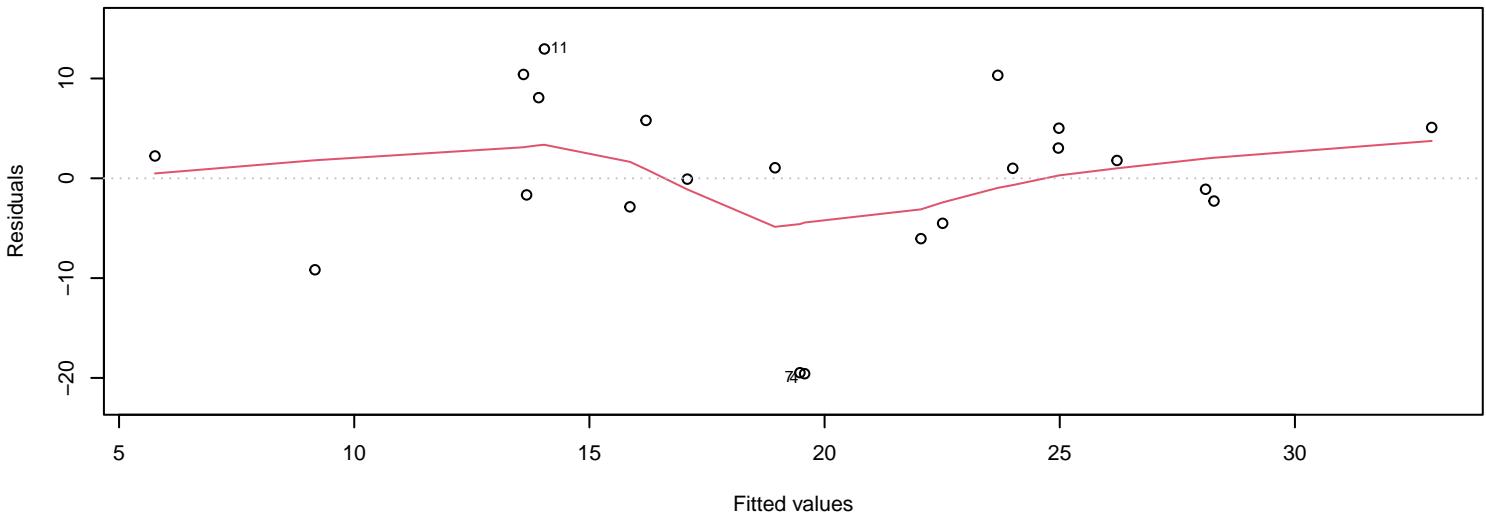
Normal Q-Q:  $\text{dsq\_sum} \sim \text{sindex\_post\_max}$   
Q-Q Residuals



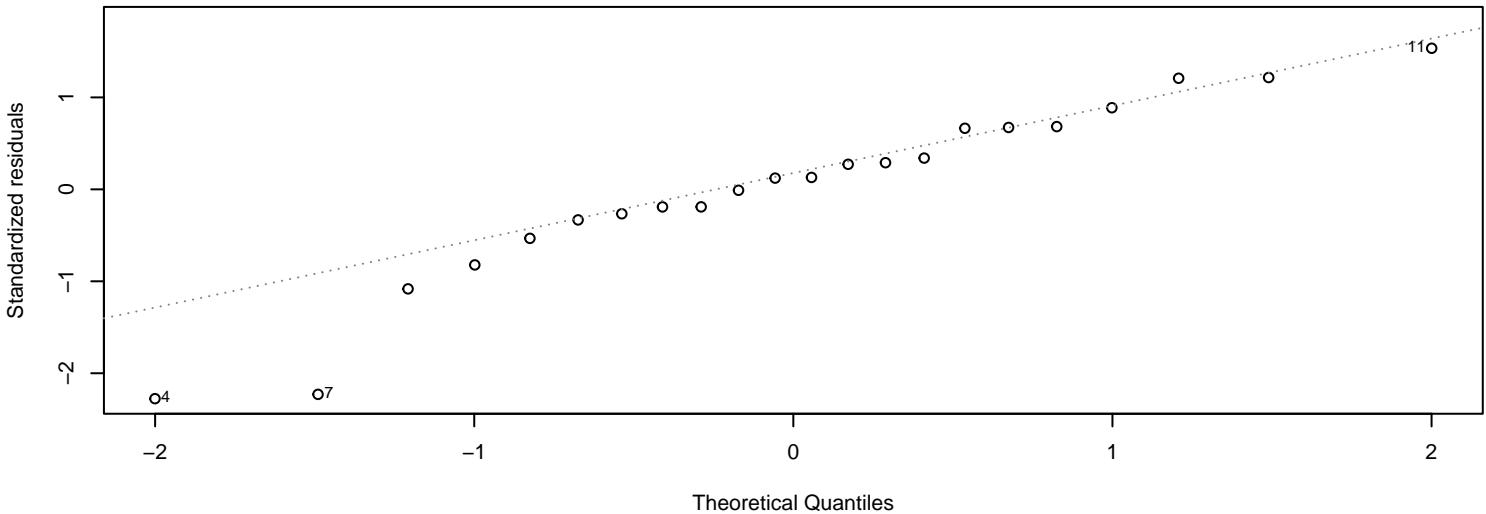
Scale-Location:  $\text{dsq\_sum} \sim \text{sindex\_post\_max}$   
Scale-Location



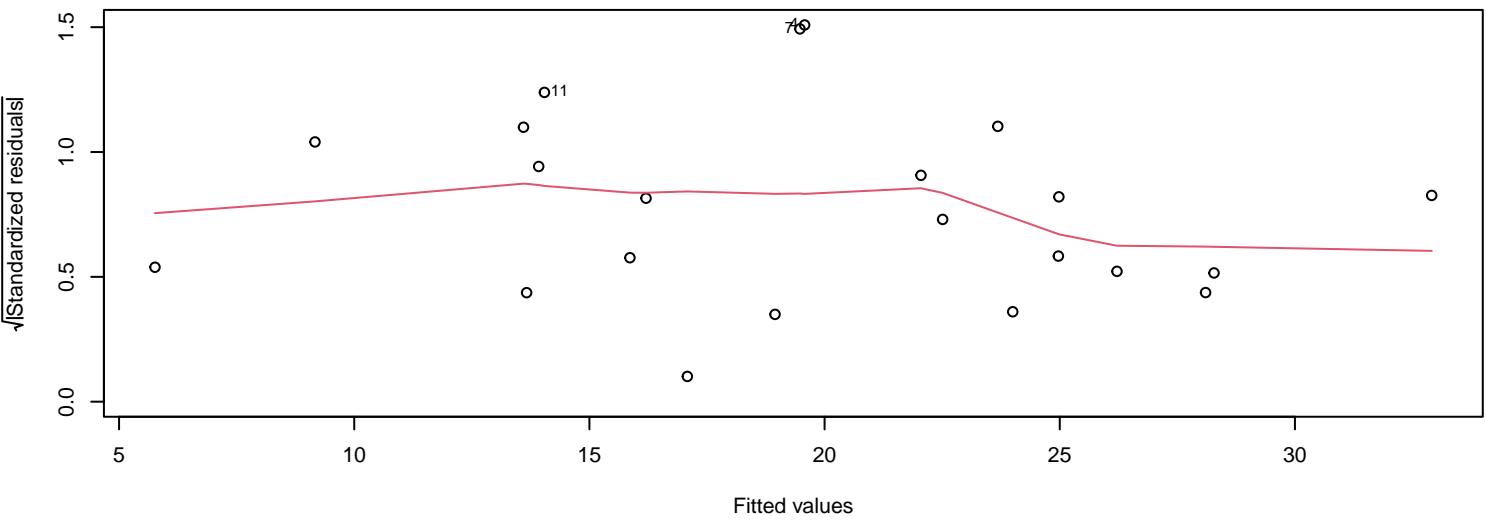
Residuals vs Fitted:  $\text{dsq\_sum} \sim \text{volume\_post\_max}$   
Residuals vs Fitted



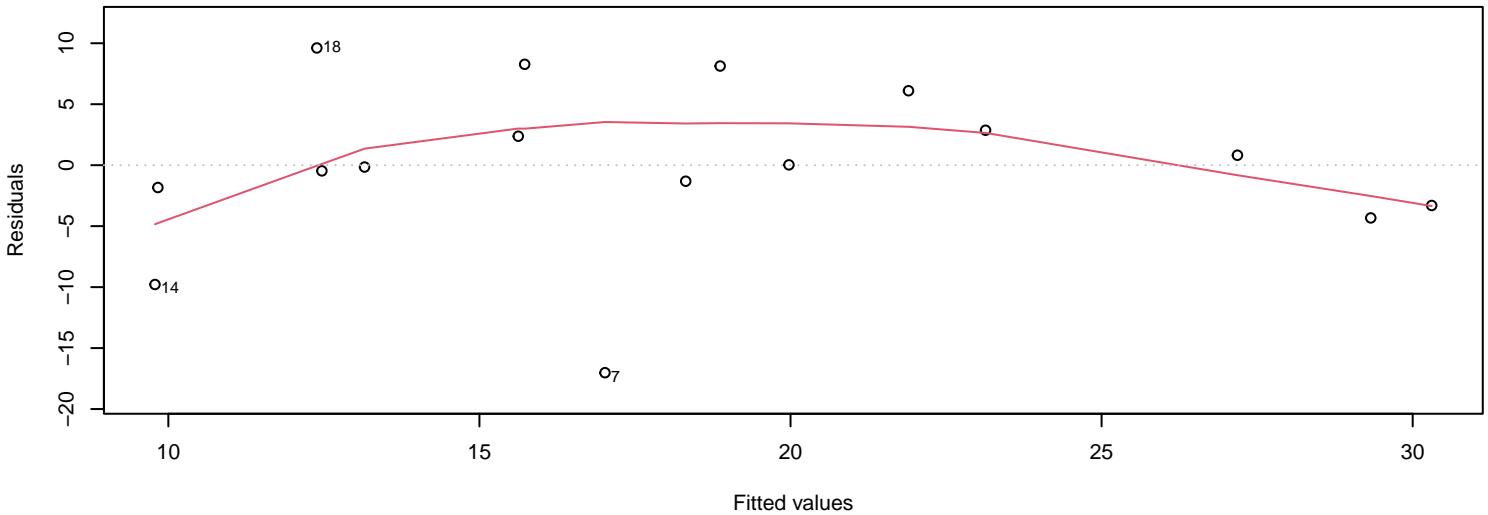
Normal Q-Q:  $\text{dsq\_sum} \sim \text{volume\_post\_max}$   
Q-Q Residuals



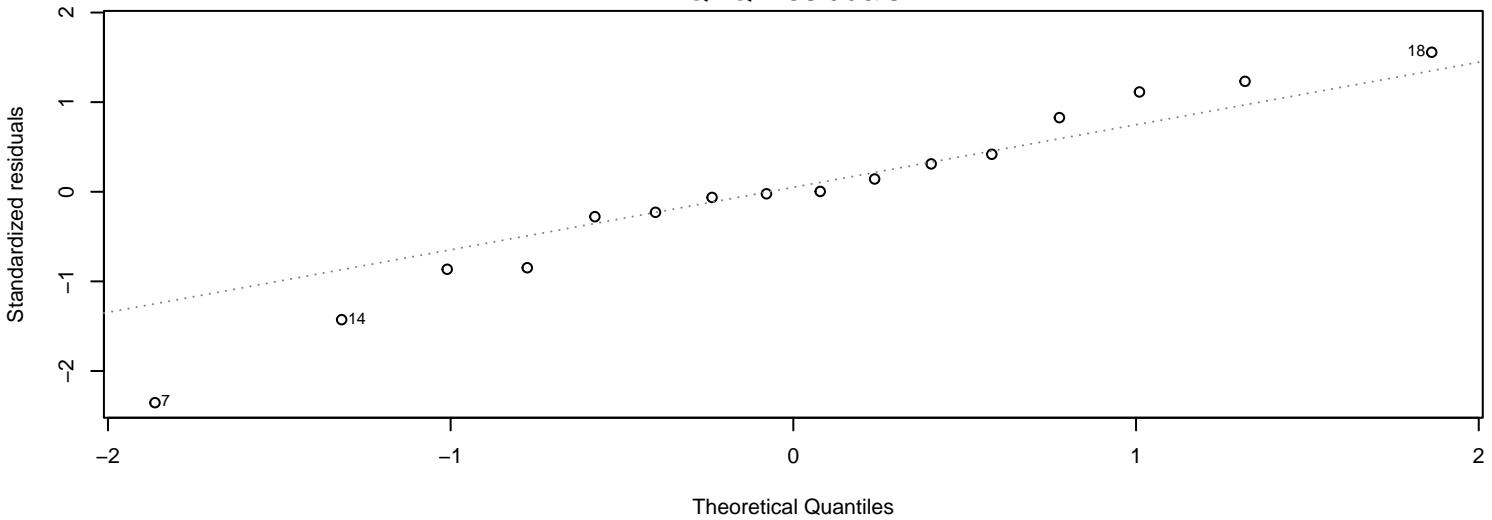
Scale-Location:  $\text{dsq\_sum} \sim \text{volume\_post\_max}$   
Scale-Location



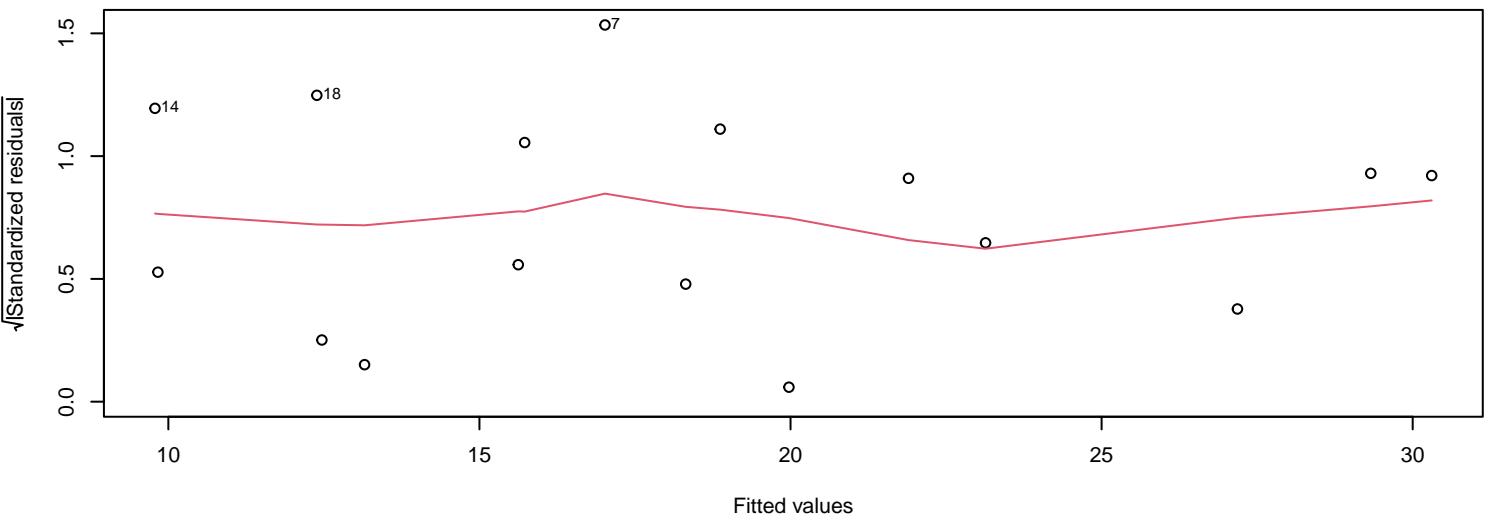
**Residuals vs Fitted: dsq\_sum ~ id\_post\_max**  
Residuals vs Fitted



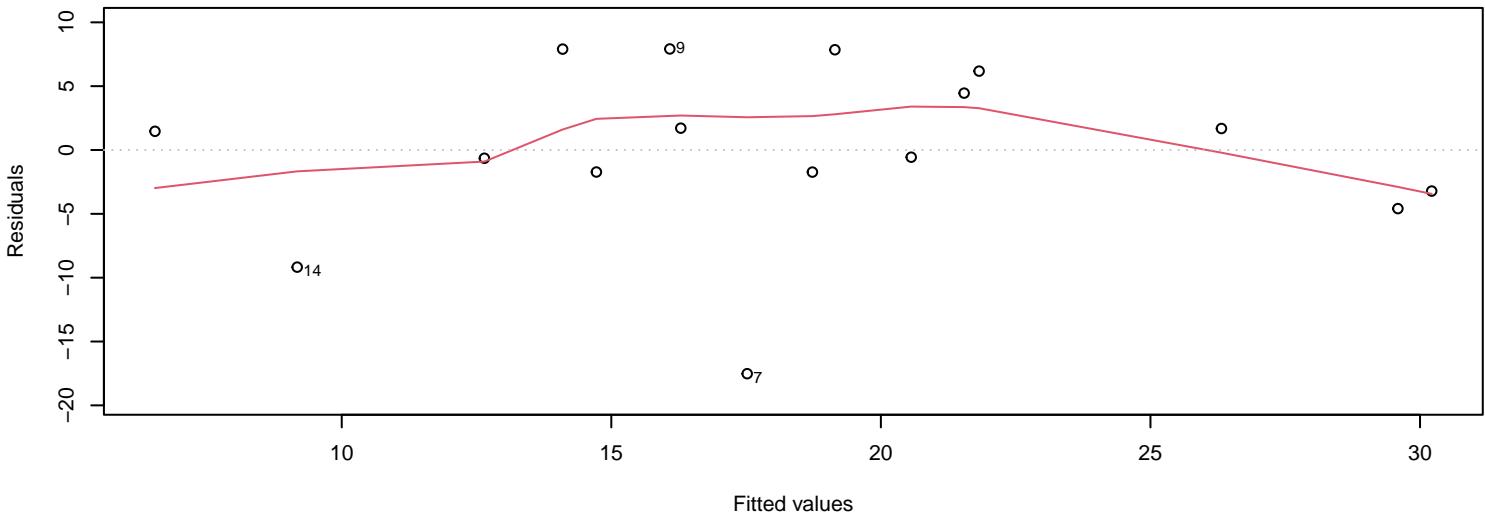
**Normal Q-Q: dsq\_sum ~ id\_post\_max**  
Q-Q Residuals



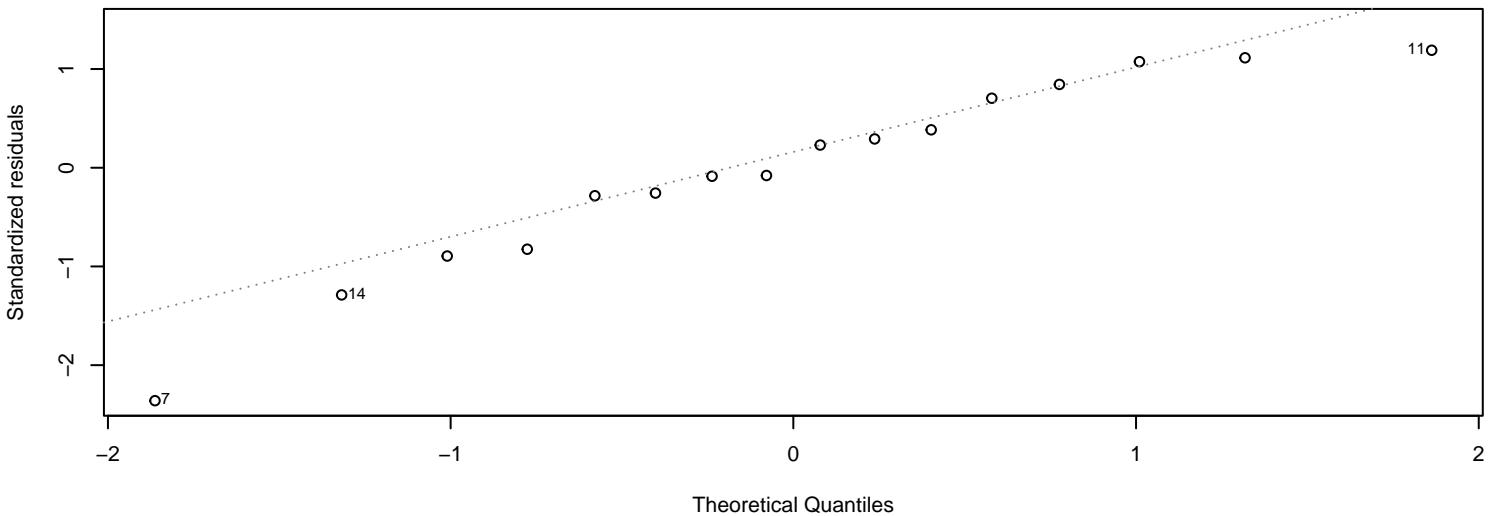
**Scale-Location: dsq\_sum ~ id\_post\_max**  
Scale-Location



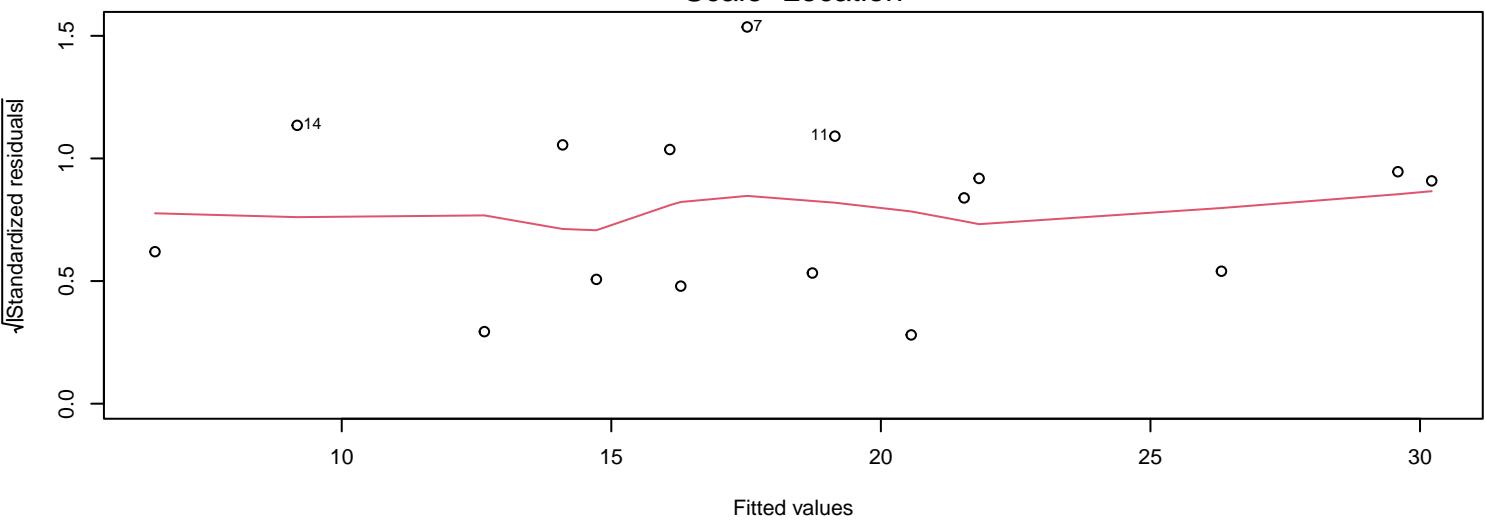
**Residuals vs Fitted: dsq\_sum ~ slopesmip\_post\_max**  
Residuals vs Fitted



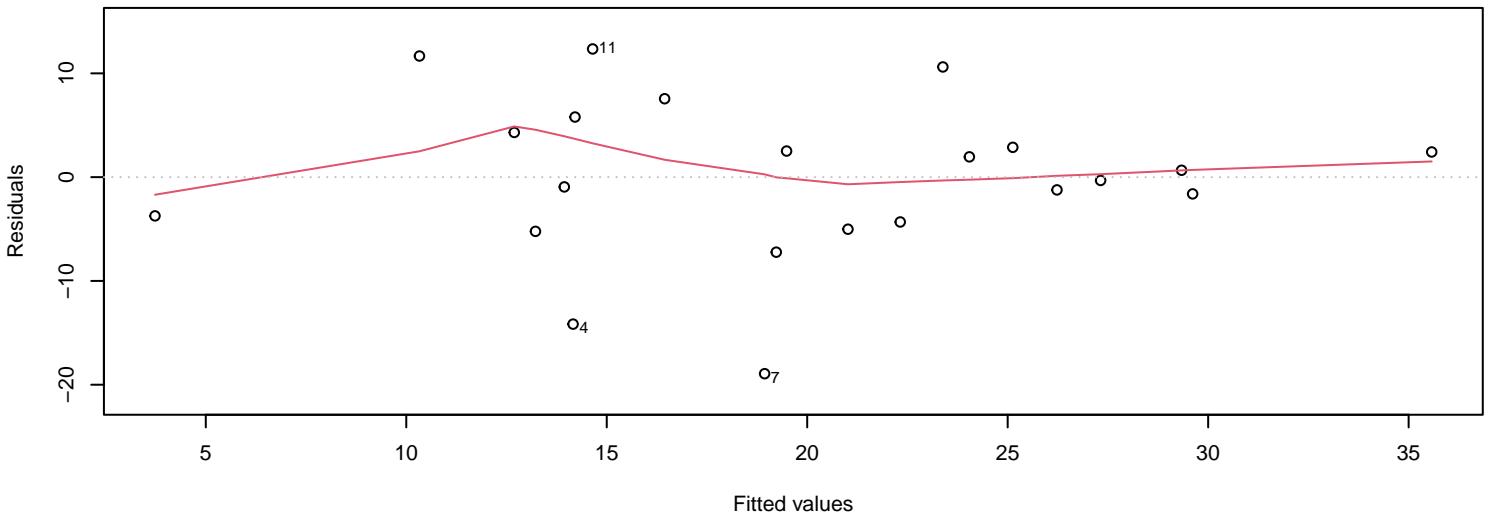
**Normal Q-Q: dsq\_sum ~ slopesmip\_post\_max**  
Q-Q Residuals



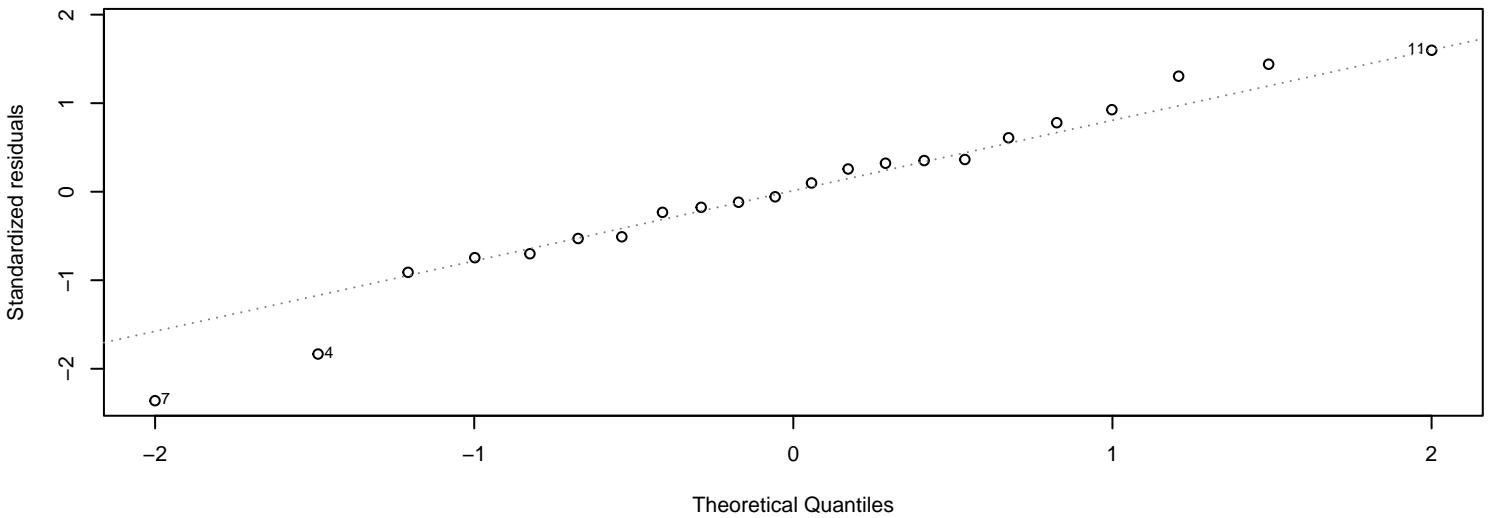
**Scale-Location: dsq\_sum ~ slopesmip\_post\_max**  
Scale-Location



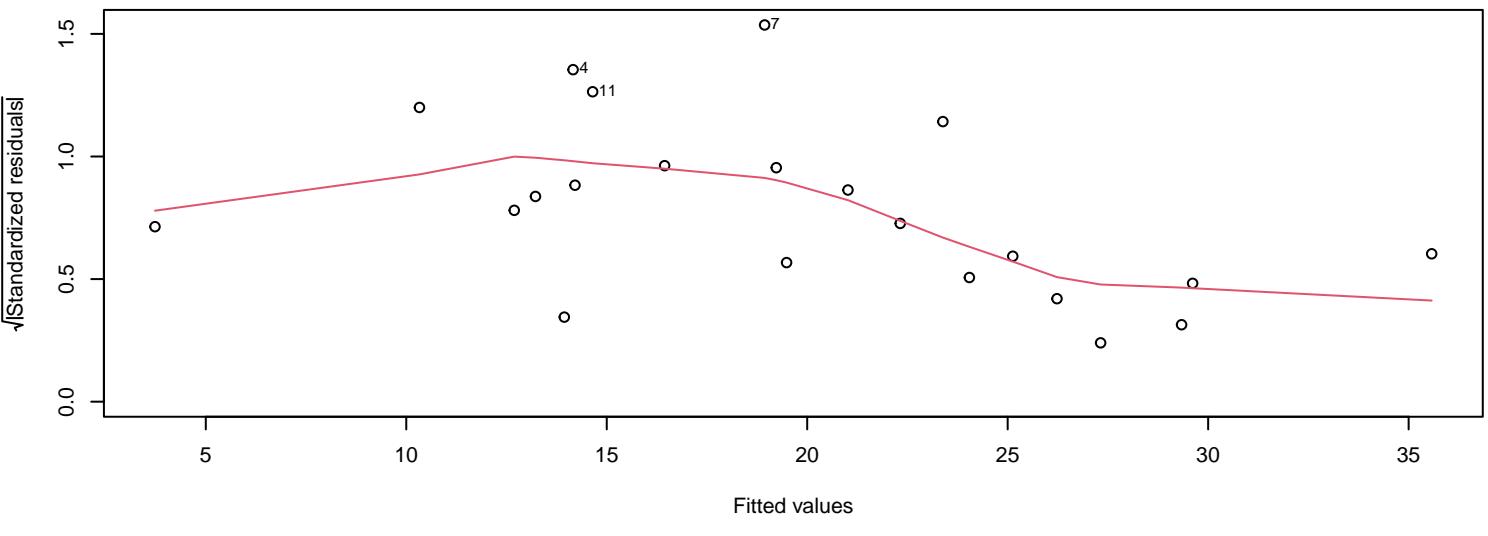
**Residuals vs Fitted: dsq\_sum ~ bdi\_sum**  
Residuals vs Fitted



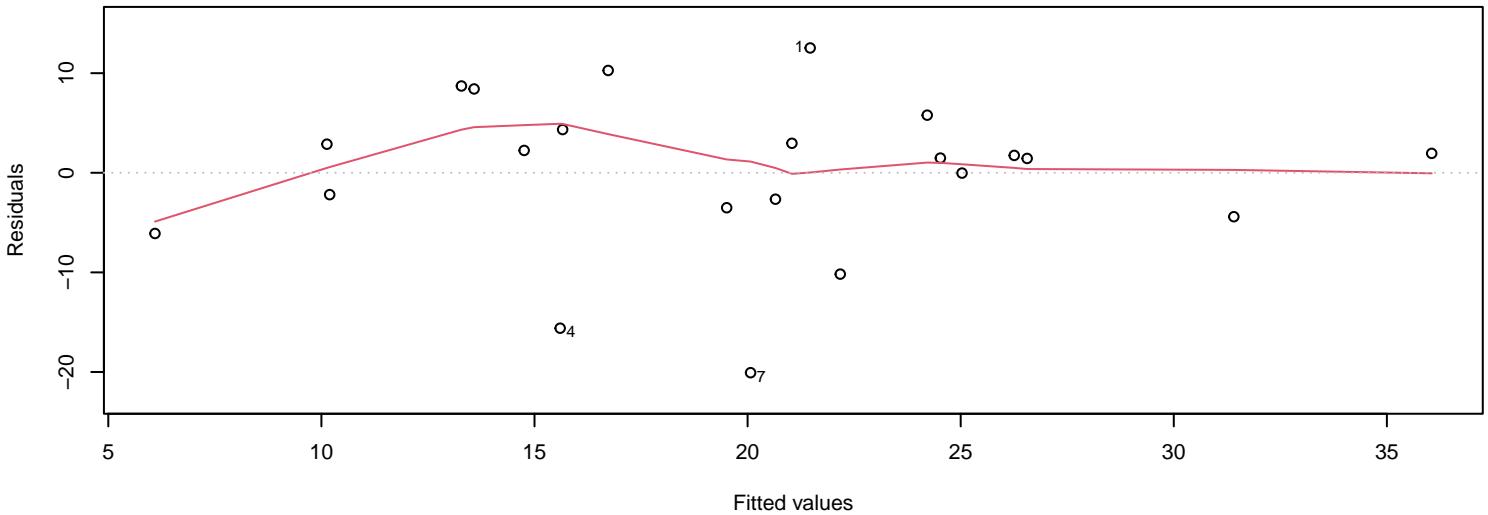
**Normal Q-Q: dsq\_sum ~ bdi\_sum**  
Q-Q Residuals



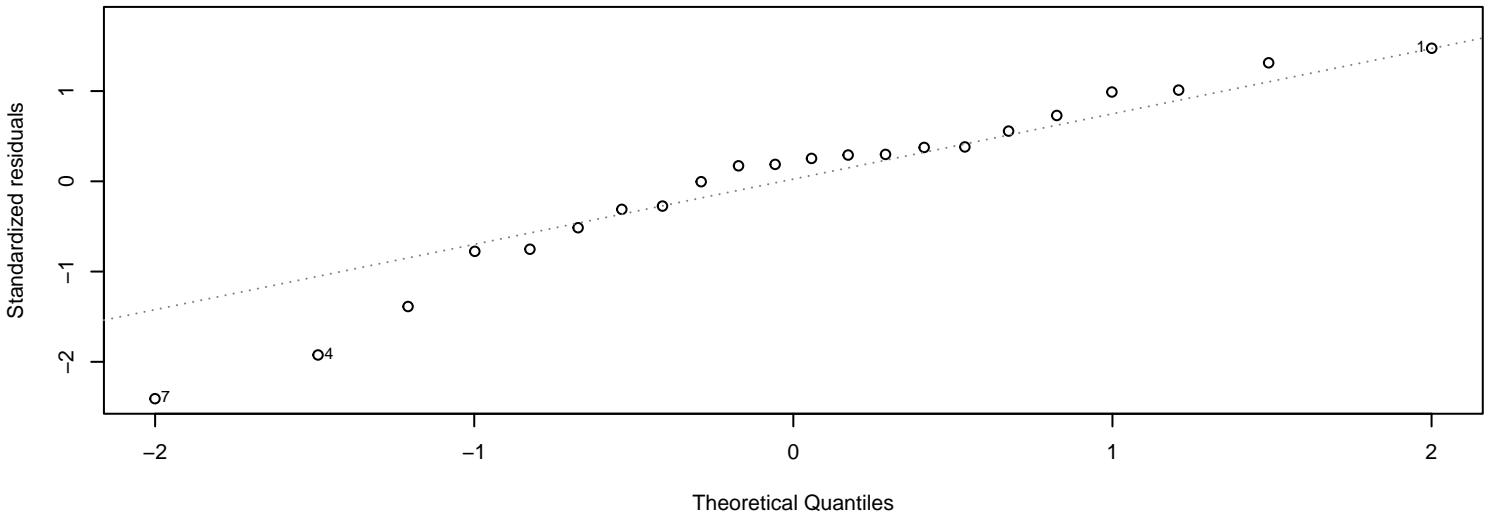
**Scale-Location: dsq\_sum ~ bdi\_sum**  
Scale-Location



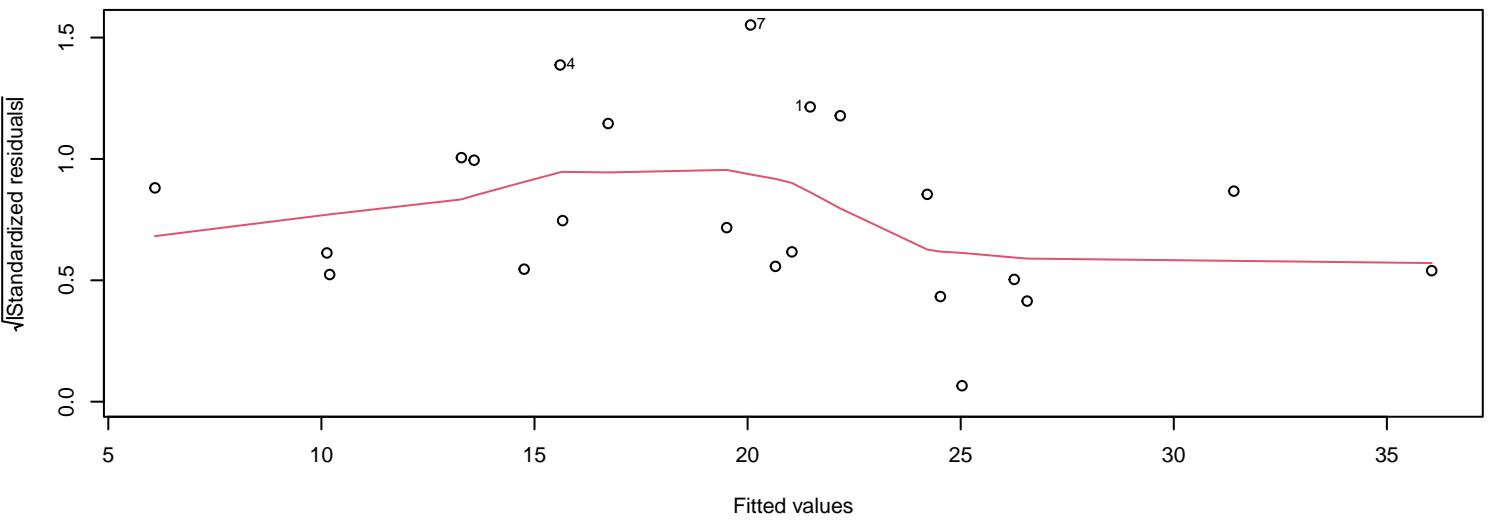
### Residuals vs Fitted: $\text{dsq\_sum} \sim \text{mmrc\_score}$ Residuals vs Fitted



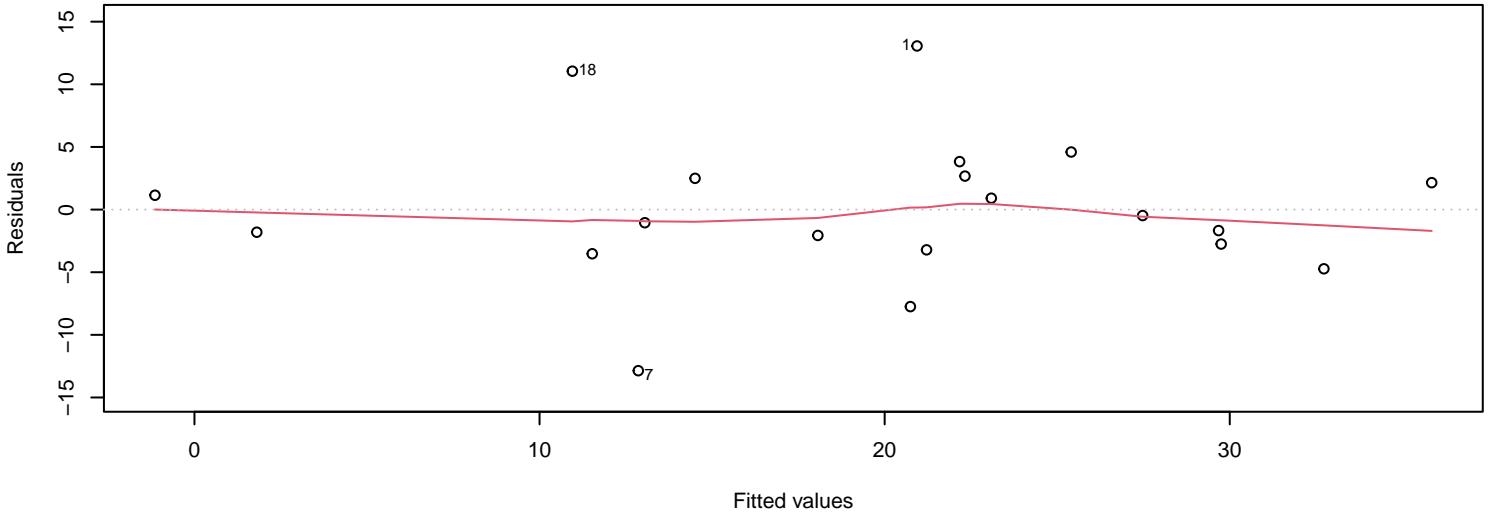
### Normal Q-Q: $\text{dsq\_sum} \sim \text{mmrc\_score}$ Q-Q Residuals



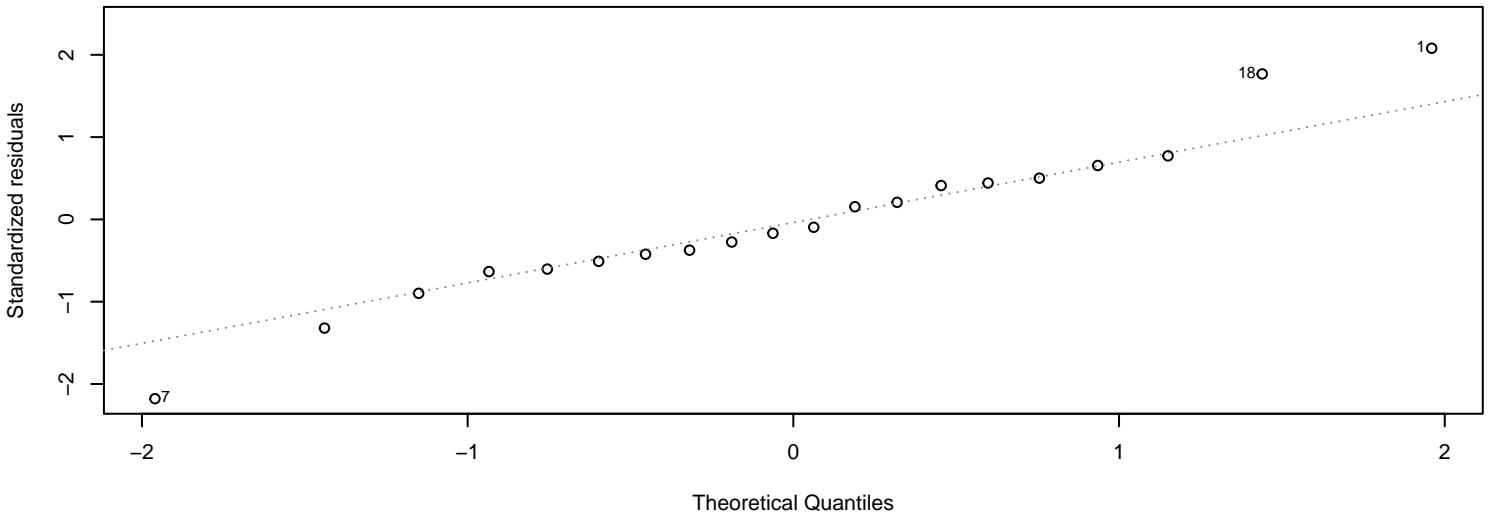
### Scale-Location: $\text{dsq\_sum} \sim \text{mmrc\_score}$ Scale-Location



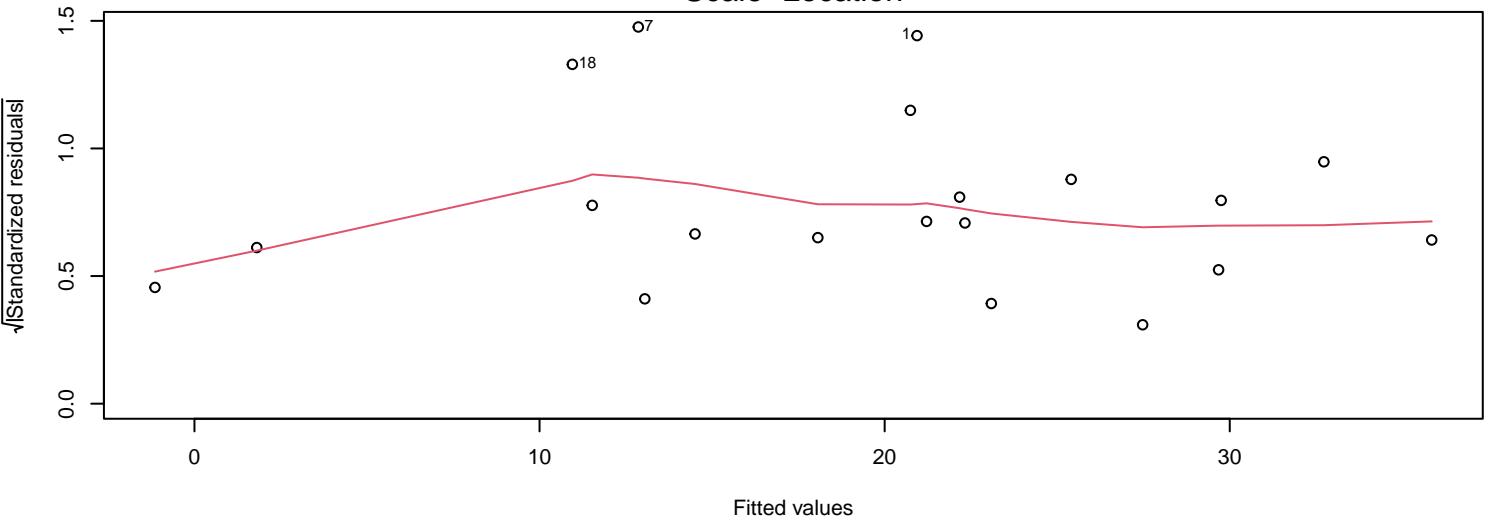
Residuals vs Fitted:  $\text{dsq\_sum} \sim \text{cpet\_ve}$   
Residuals vs Fitted



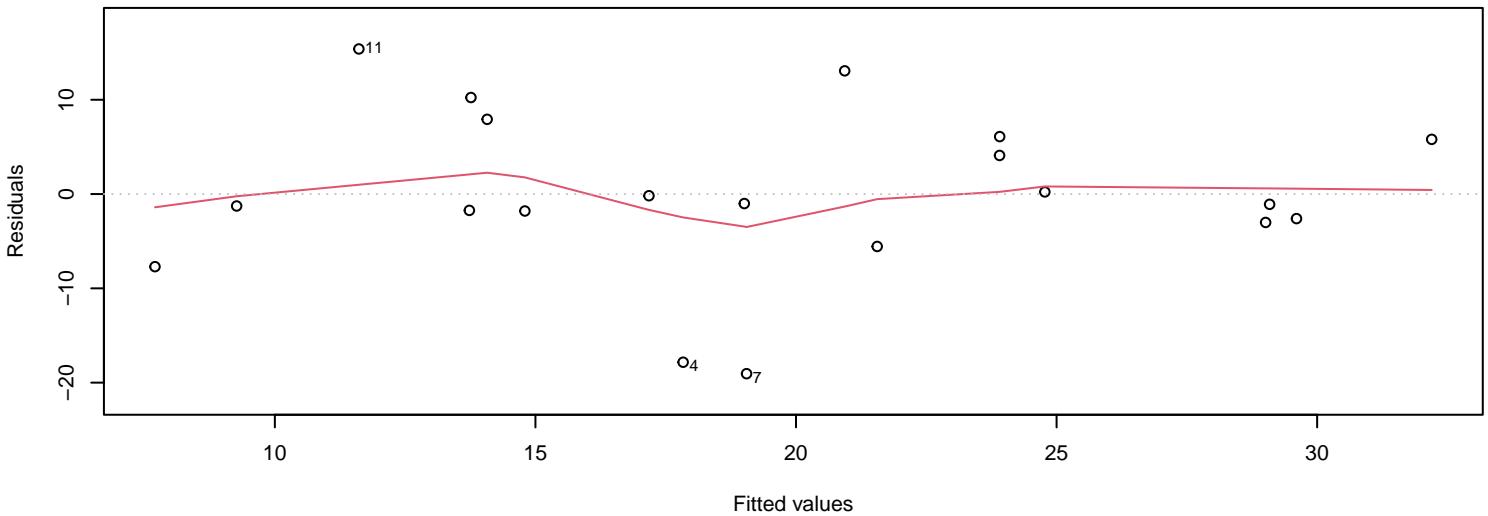
Normal Q-Q:  $\text{dsq\_sum} \sim \text{cpet\_ve}$   
Q-Q Residuals



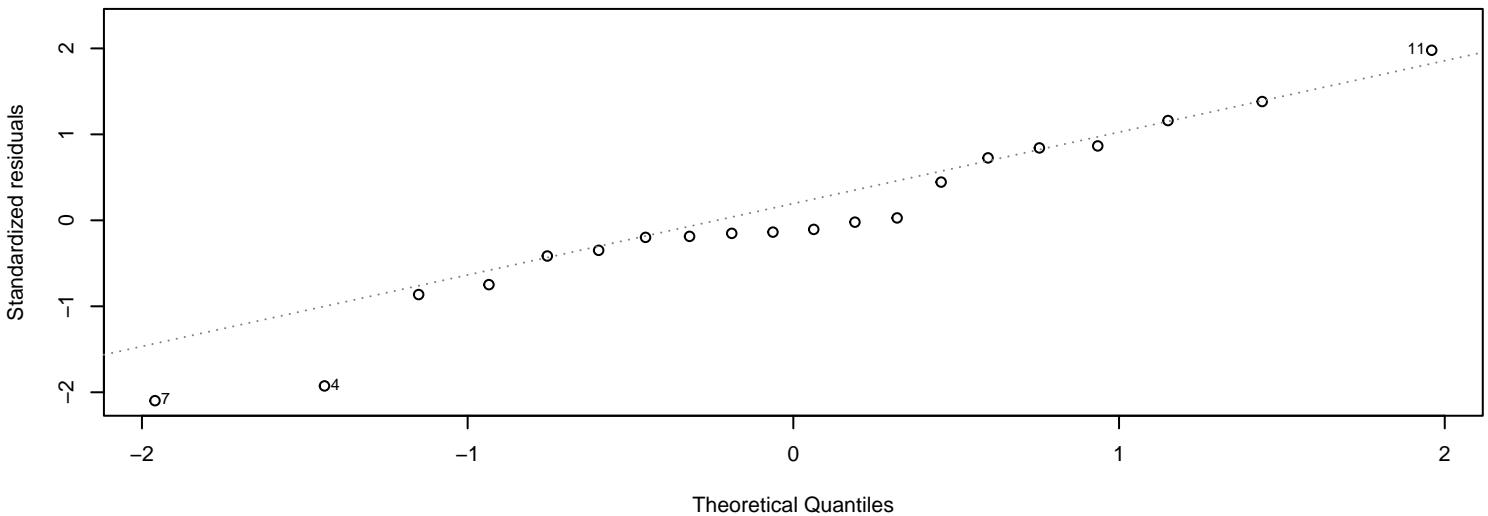
Scale–Location:  $\text{dsq\_sum} \sim \text{cpet\_ve}$   
Scale–Location



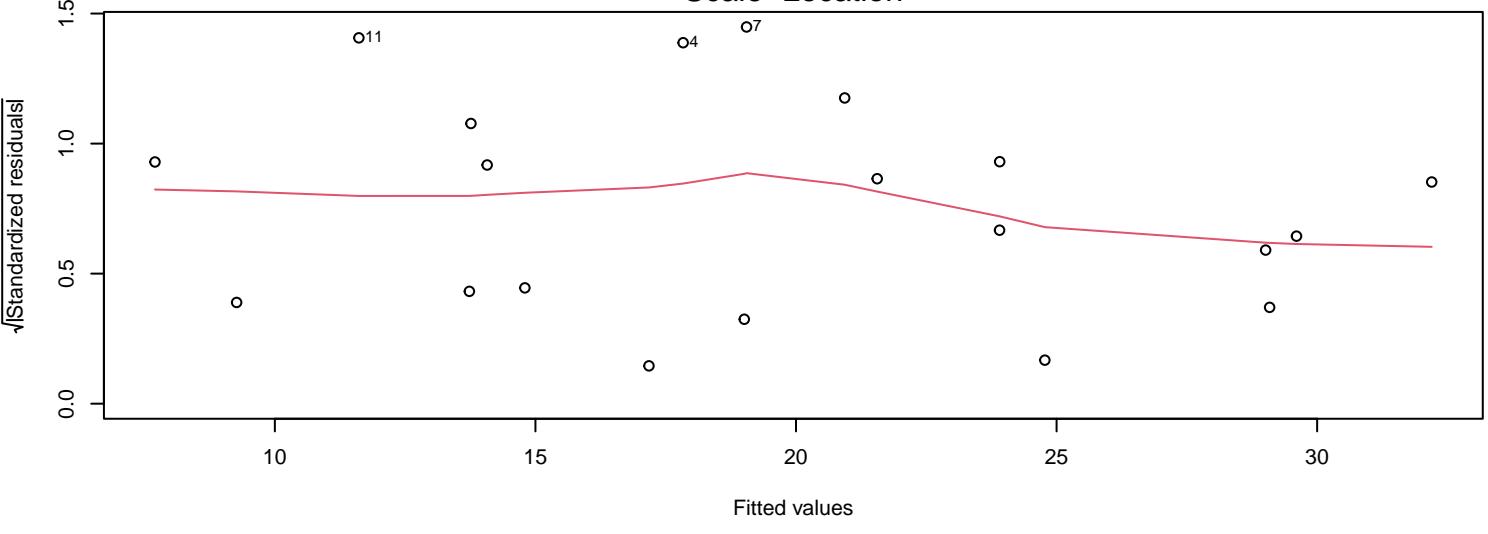
**Residuals vs Fitted: dsq\_sum ~ cpet\_vt\_peak**  
Residuals vs Fitted



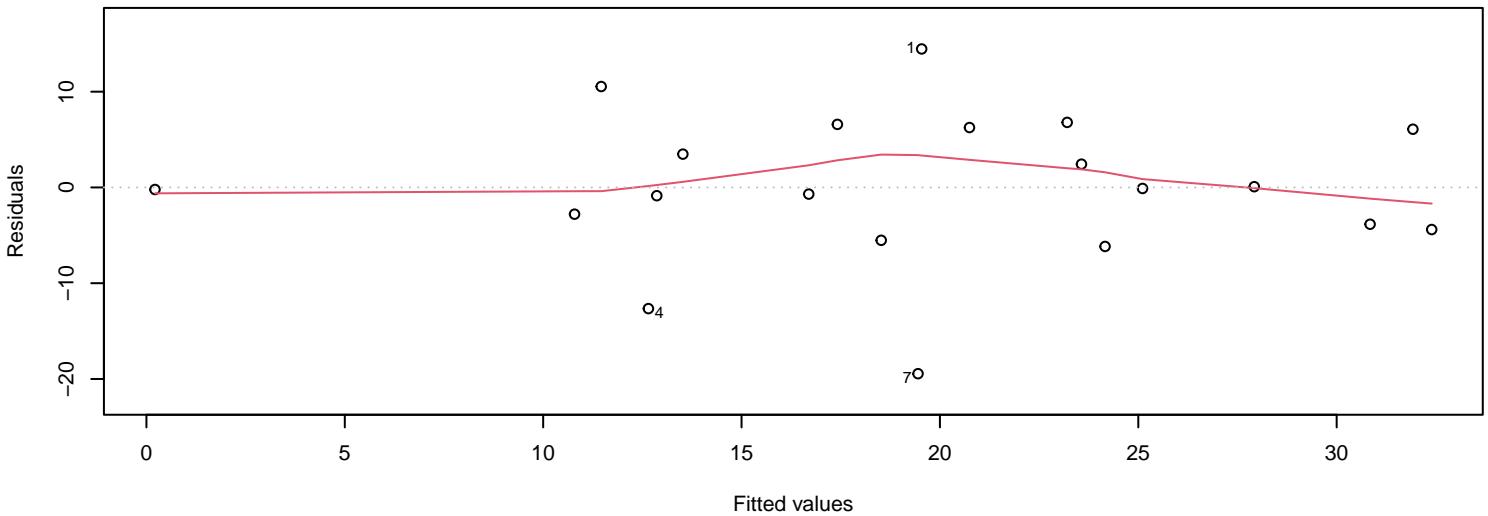
**Normal Q-Q: dsq\_sum ~ cpet\_vt\_peak**  
Q-Q Residuals



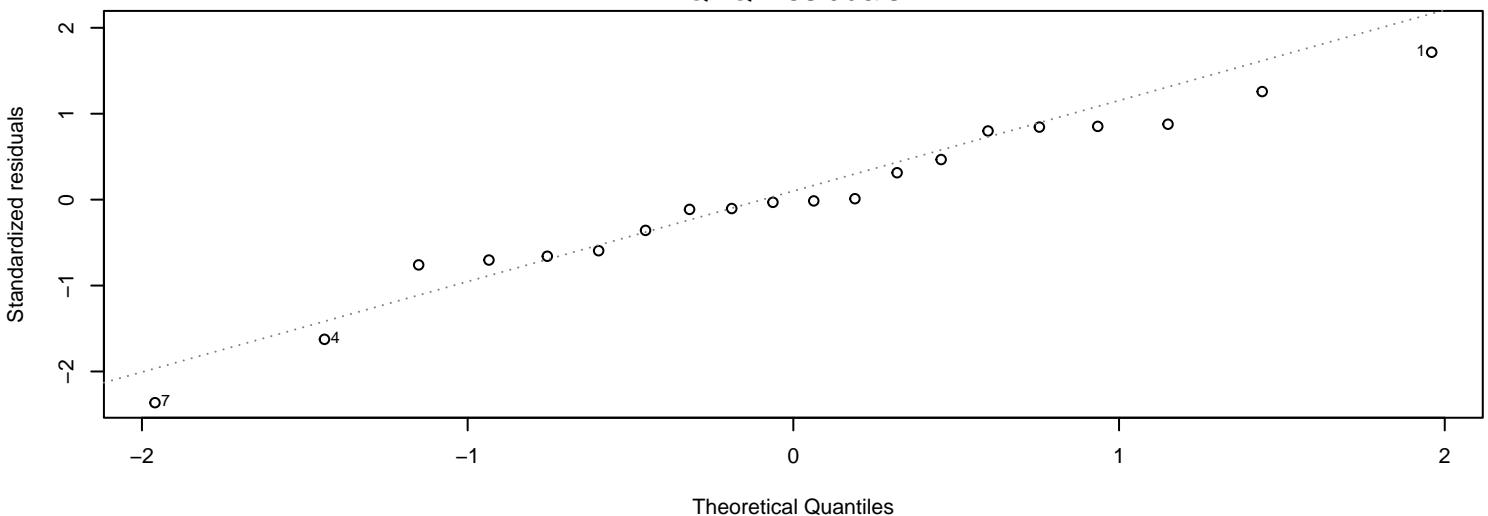
**Scale-Location: dsq\_sum ~ cpet\_vt\_peak**  
Scale-Location



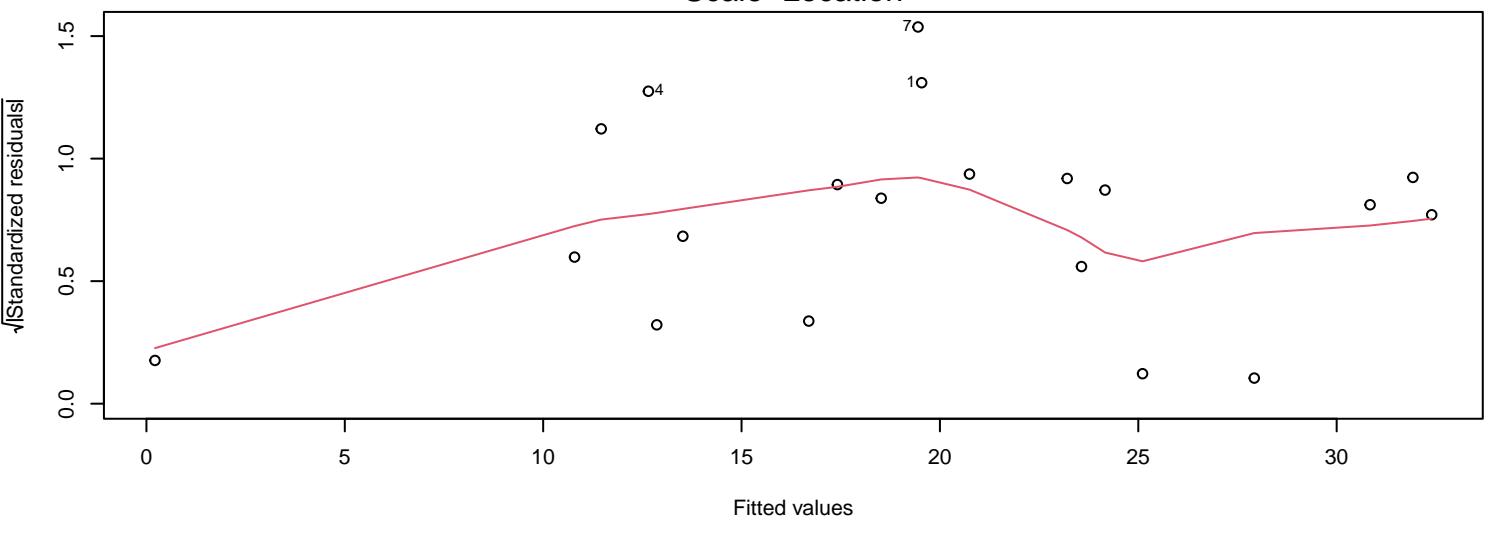
Residuals vs Fitted:  $\text{dsq\_sum} \sim \text{cpet\_o2pulse}$   
Residuals vs Fitted



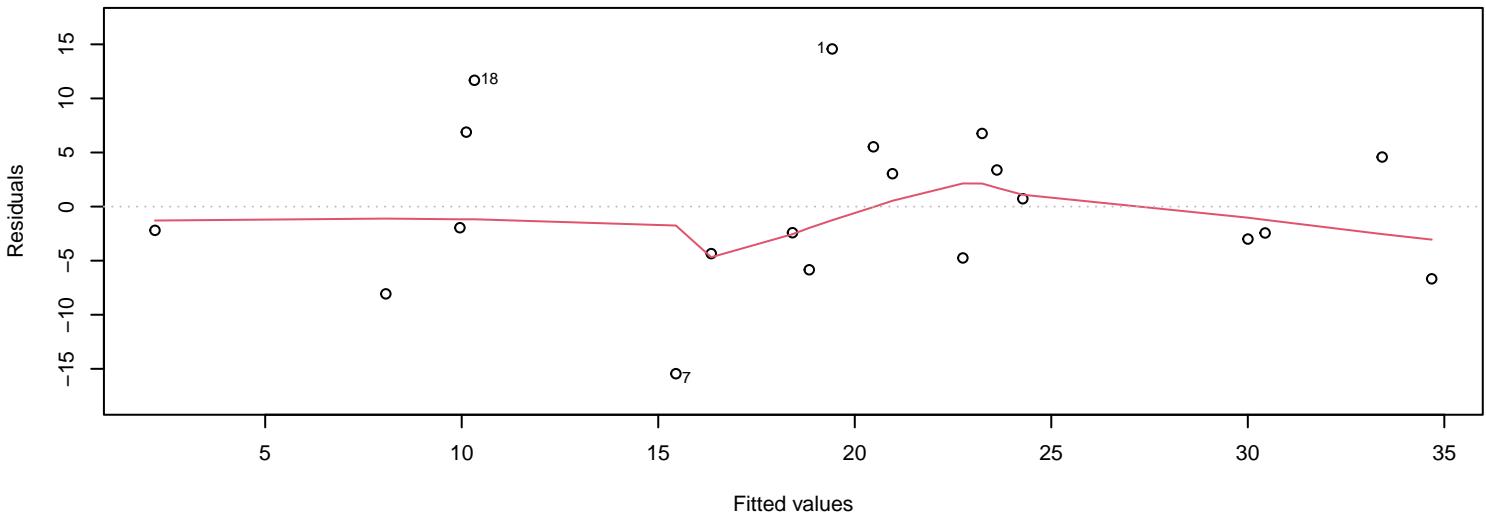
Normal Q-Q:  $\text{dsq\_sum} \sim \text{cpet\_o2pulse}$   
Q-Q Residuals



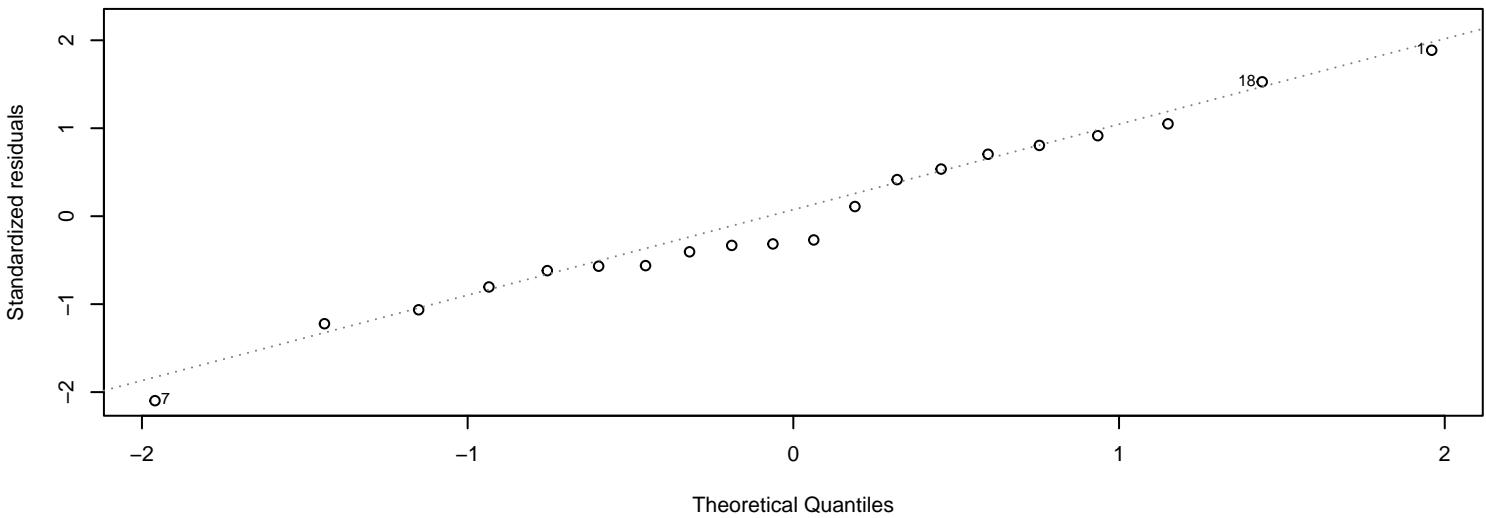
Scale-Location:  $\text{dsq\_sum} \sim \text{cpet\_o2pulse}$   
Scale-Location



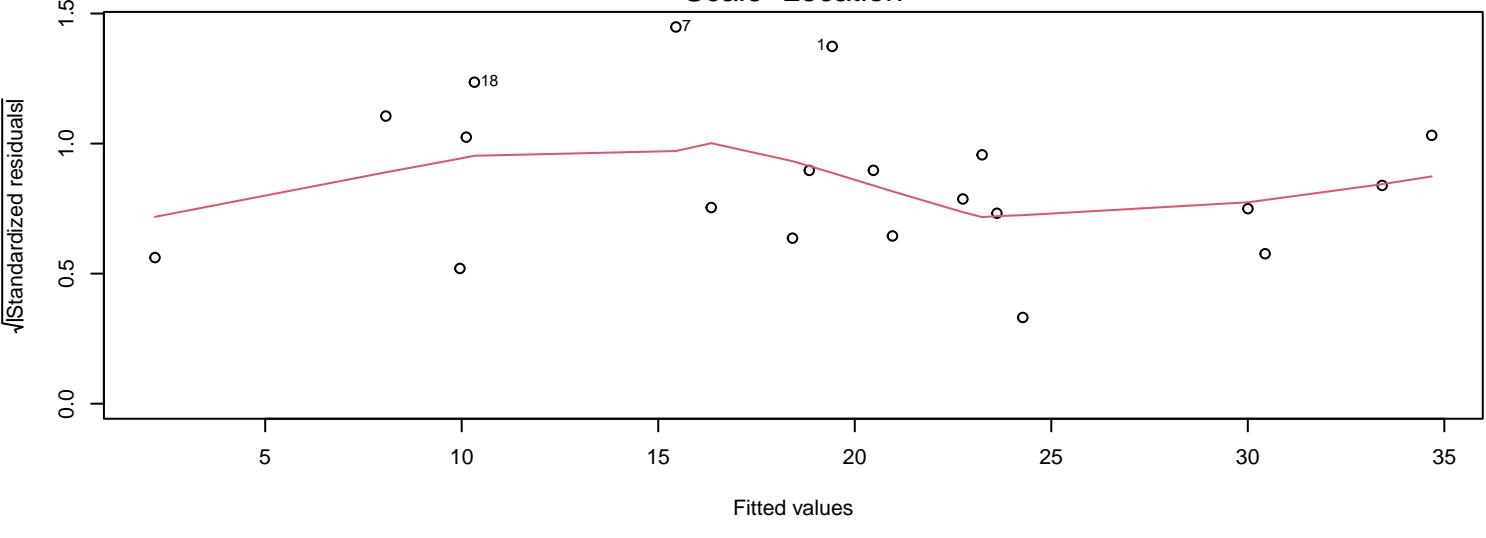
Residuals vs Fitted:  $\text{dsq\_sum} \sim \text{cpet\_vo2peak\_absolute}$   
Residuals vs Fitted



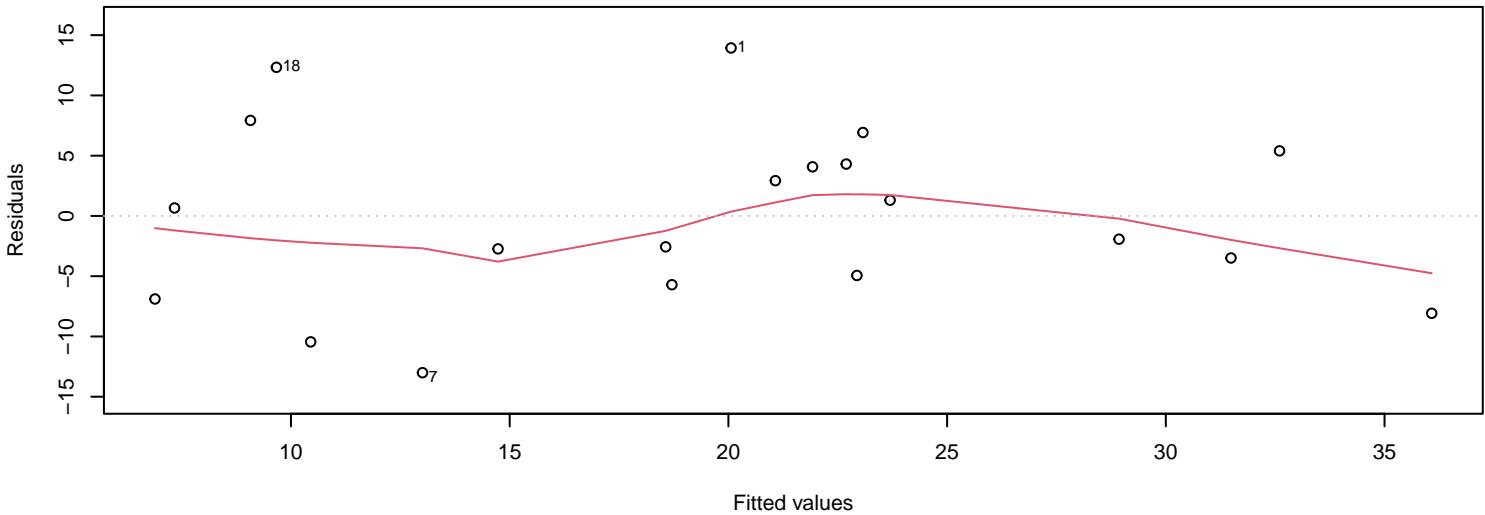
Normal Q-Q:  $\text{dsq\_sum} \sim \text{cpet\_vo2peak\_absolute}$   
Q-Q Residuals



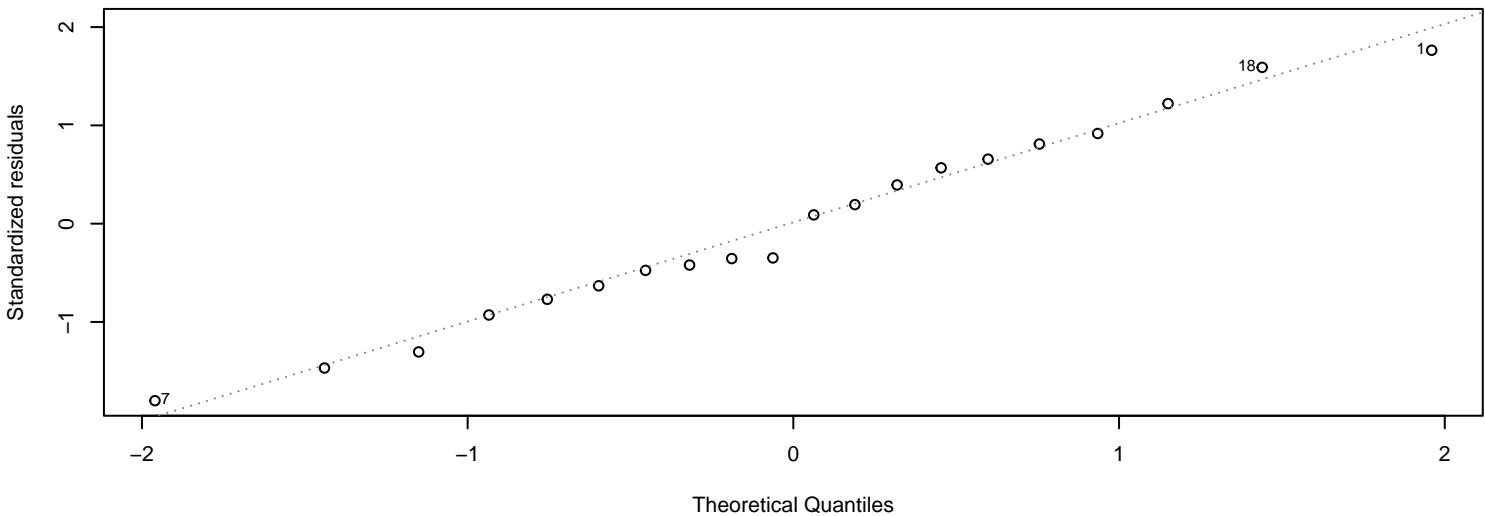
Scale-Location:  $\text{dsq\_sum} \sim \text{cpet\_vo2peak\_absolute}$   
Scale-Location



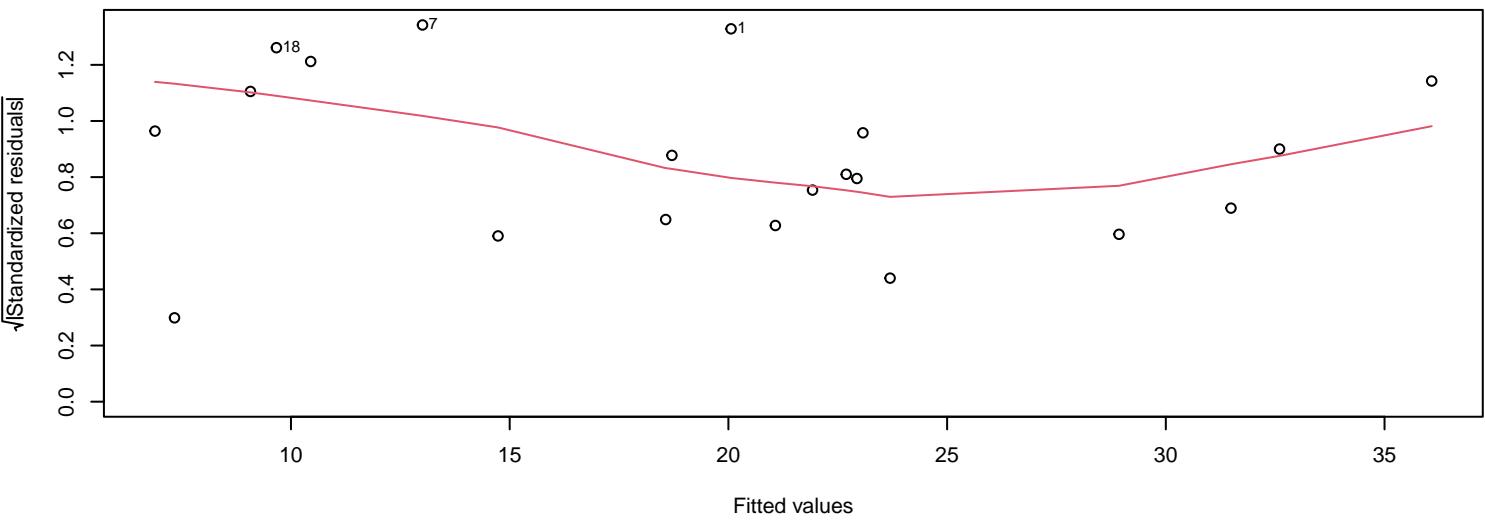
**Residuals vs Fitted:  $\text{dsq\_sum} \sim \text{cpet\_vo2peak\_relative}$**   
Residuals vs Fitted



**Normal Q-Q:  $\text{dsq\_sum} \sim \text{cpet\_vo2peak\_relative}$**   
Q-Q Residuals

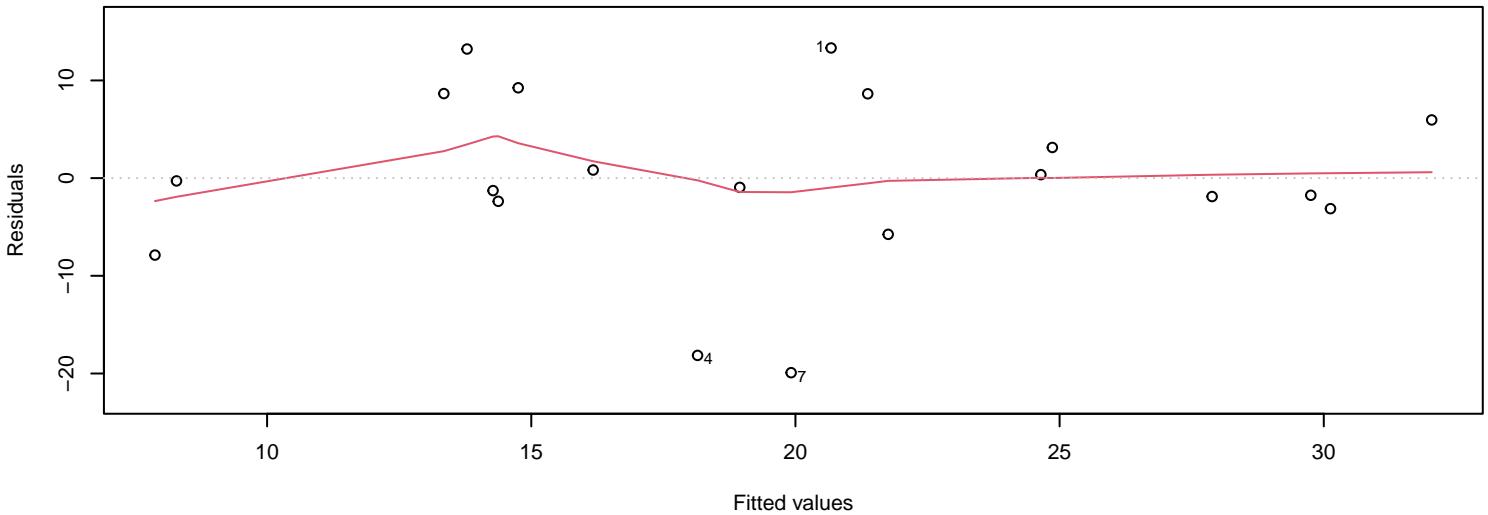


**Scale-Location:  $\text{dsq\_sum} \sim \text{cpet\_vo2peak\_relative}$**   
Scale-Location



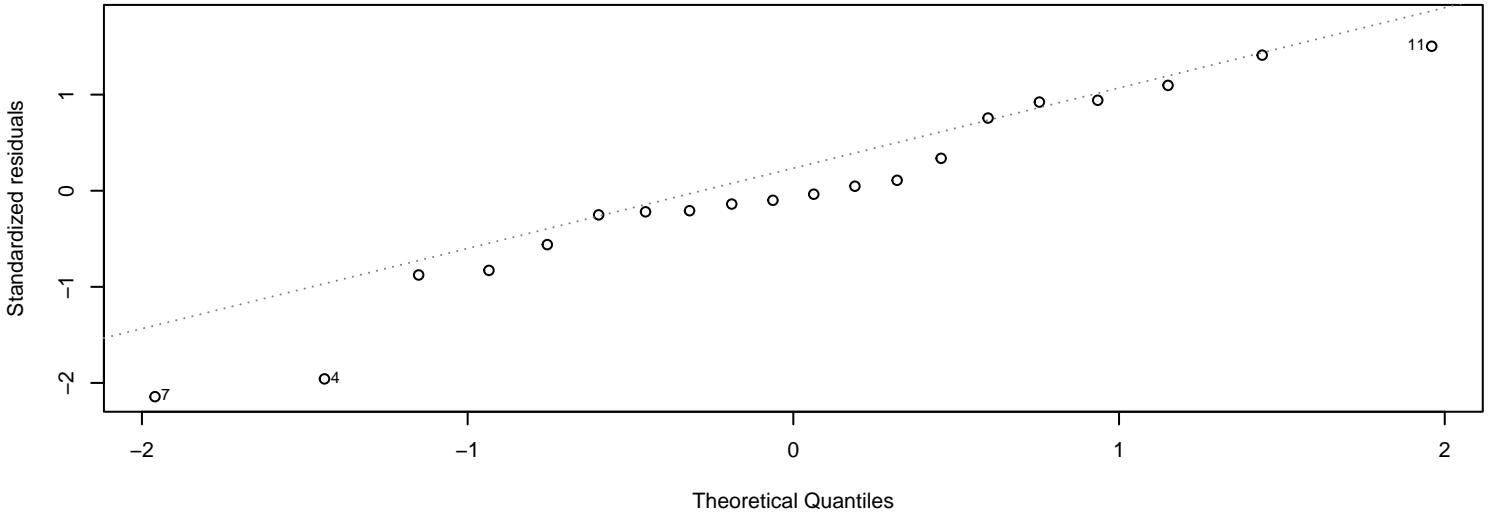
### Residuals vs Fitted: dsq\_sum ~ fmd\_percent

#### Residuals vs Fitted



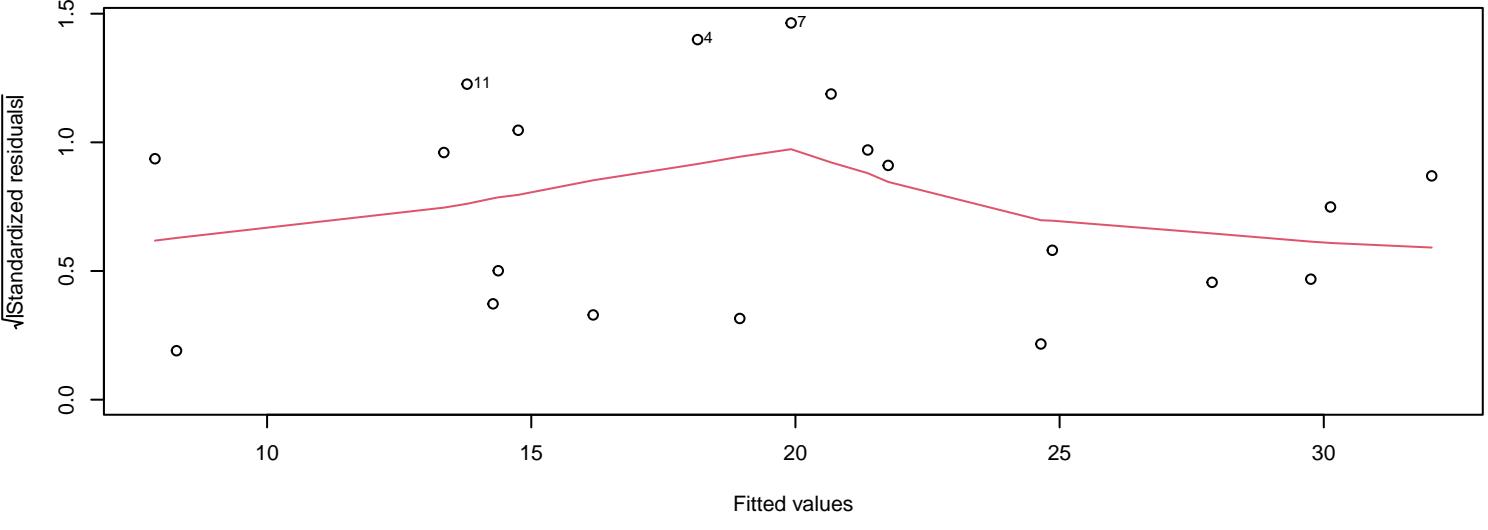
### Normal Q-Q: dsq\_sum ~ fmd\_percent

#### Q-Q Residuals

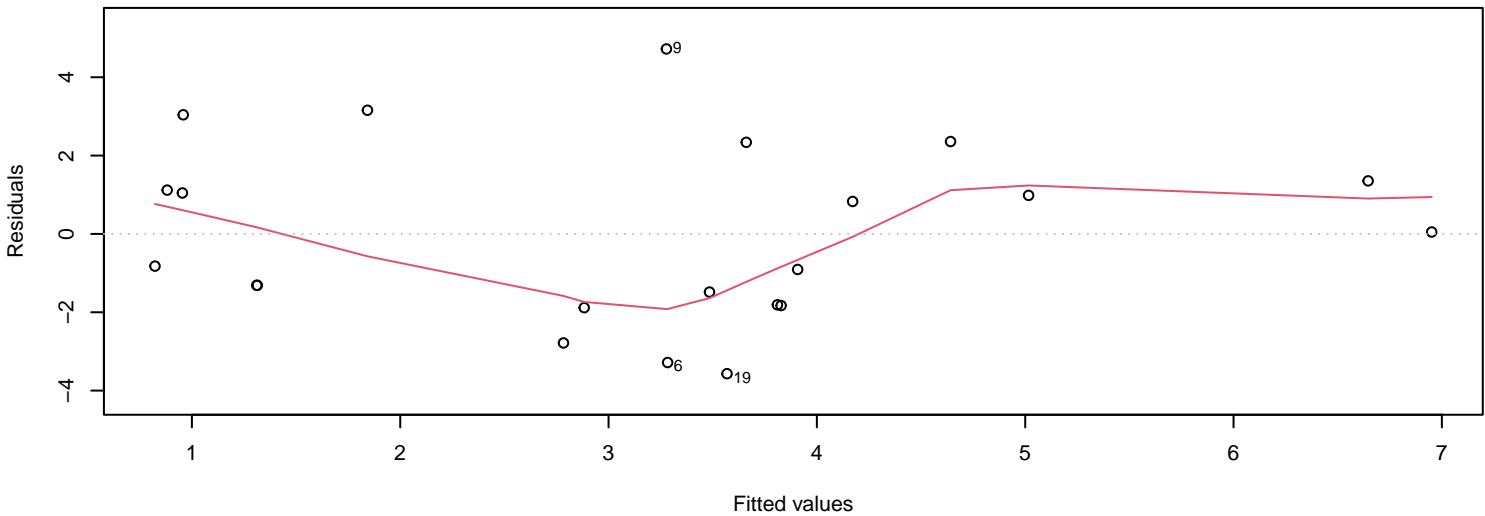


### Scale–Location: dsq\_sum ~ fmd\_percent

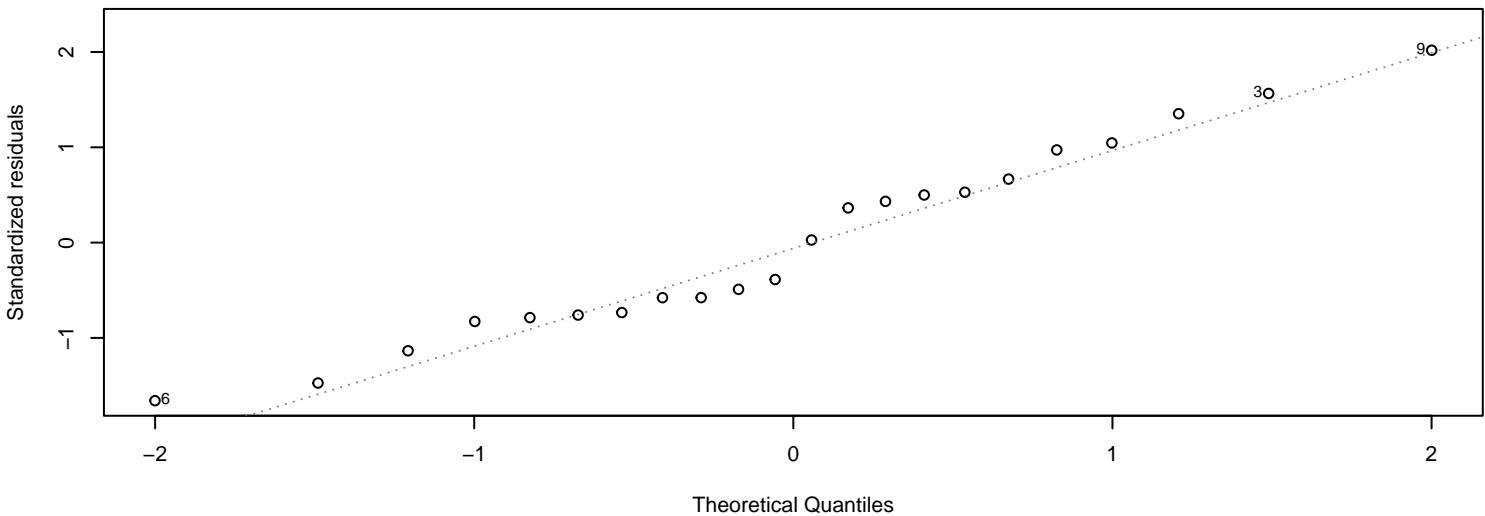
#### Scale–Location



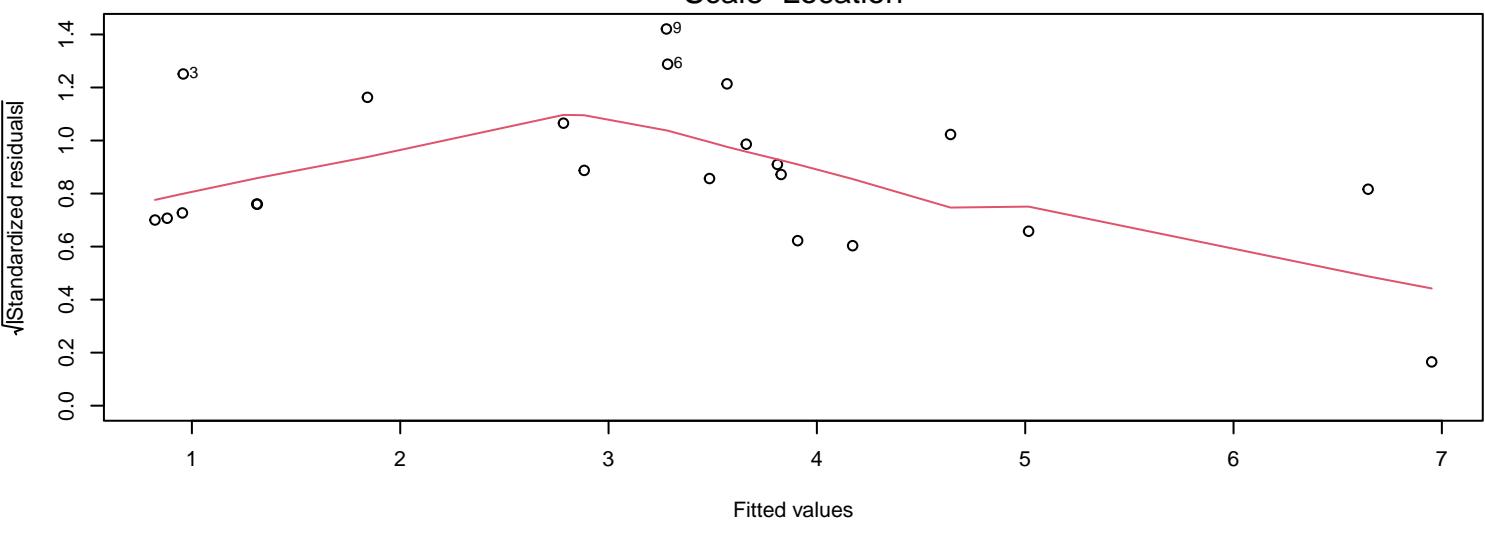
**Residuals vs Fitted: vas\_fatiguecurrent ~ mip\_pre\_max**  
Residuals vs Fitted



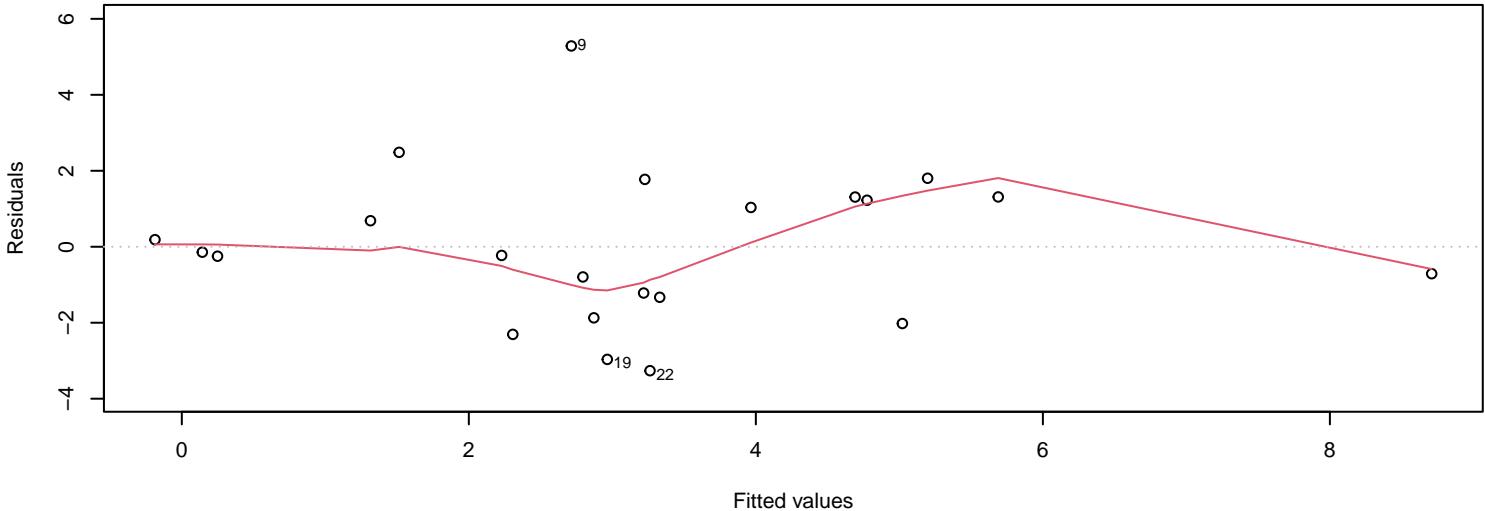
**Normal Q-Q: vas\_fatiguecurrent ~ mip\_pre\_max**  
Q-Q Residuals



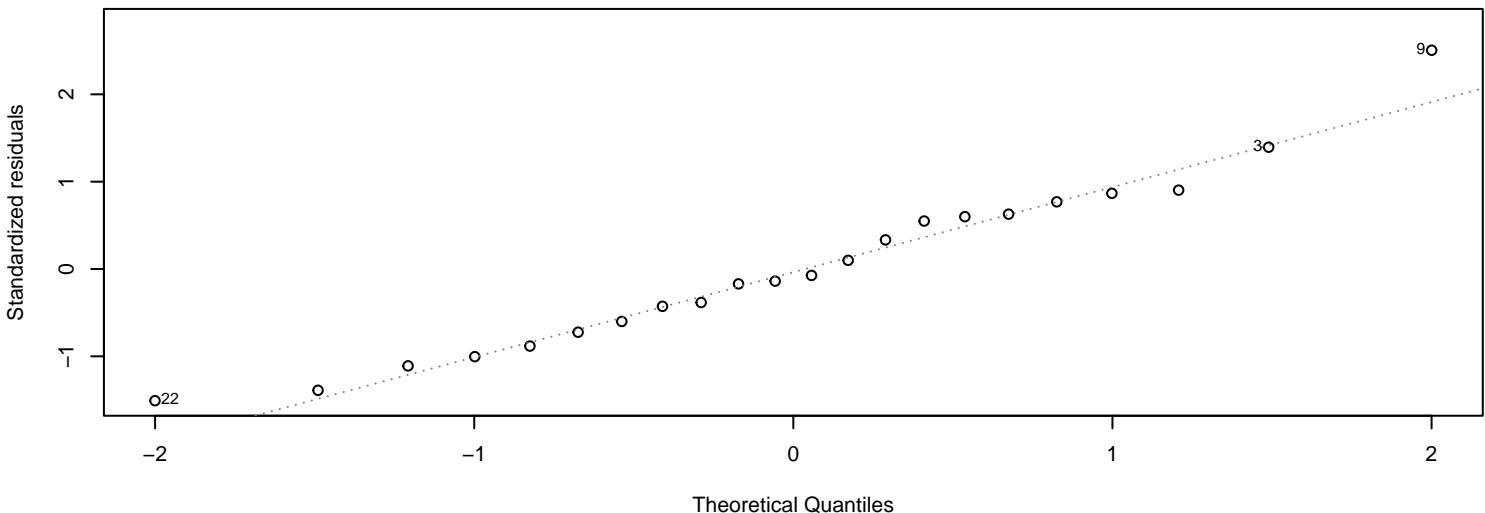
**Scale–Location: vas\_fatiguecurrent ~ mip\_pre\_max**  
Scale–Location



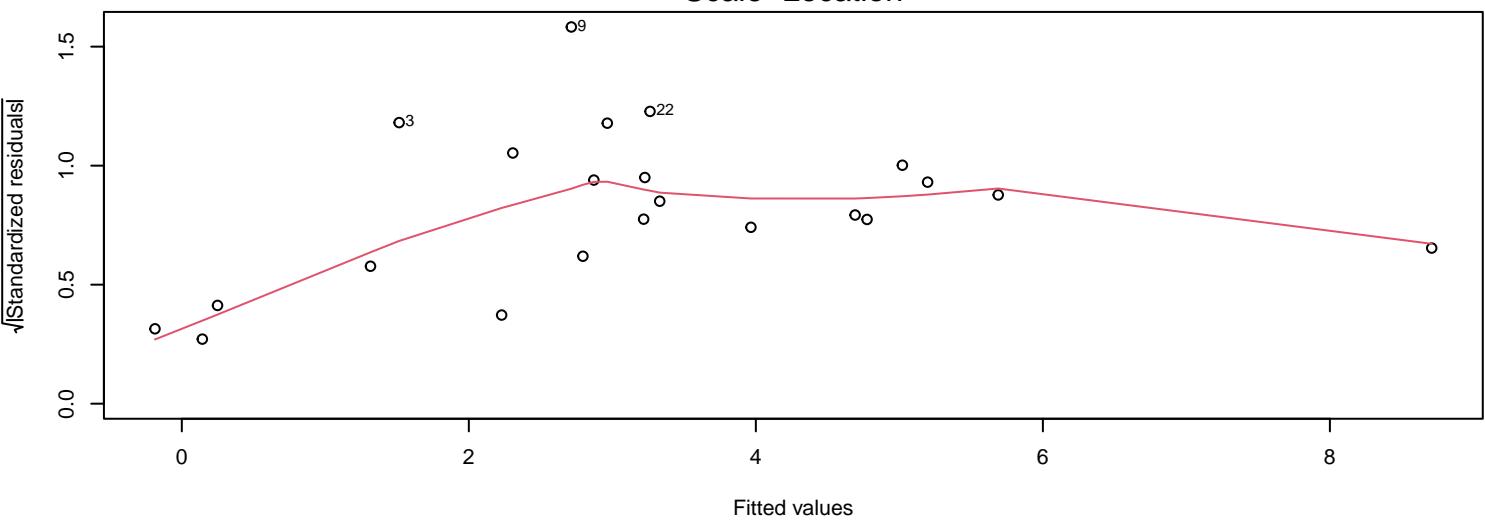
**Residuals vs Fitted: vas\_fatiguecurrent ~ smip\_pre\_max**  
Residuals vs Fitted



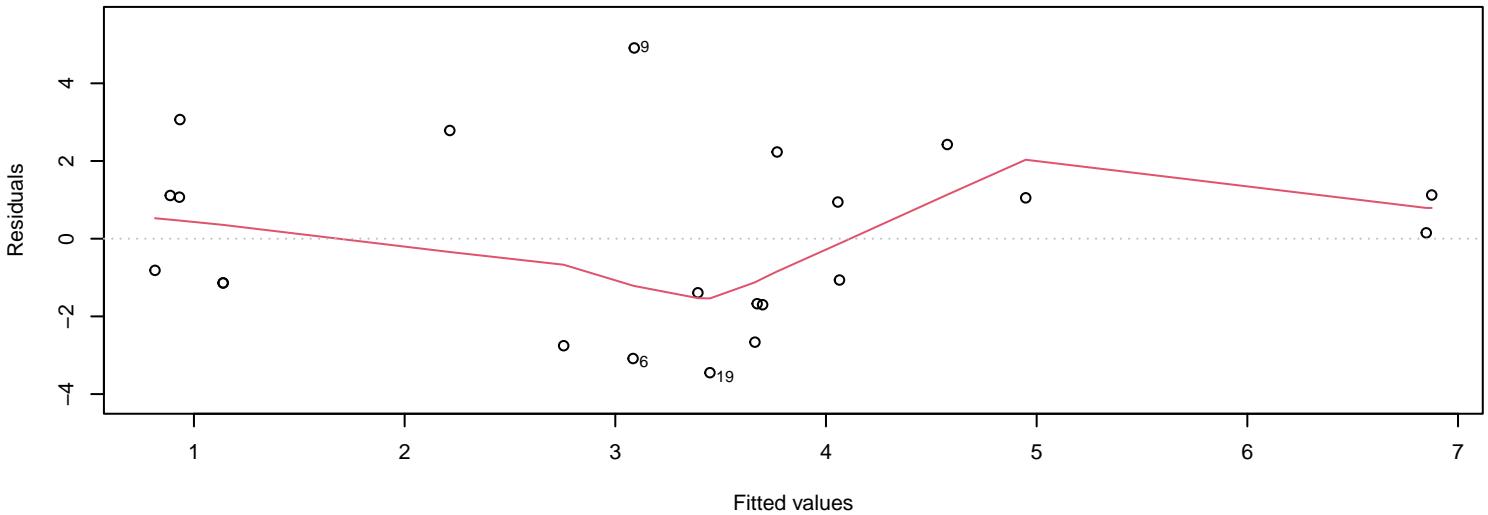
**Normal Q-Q: vas\_fatiguecurrent ~ smip\_pre\_max**  
Q-Q Residuals



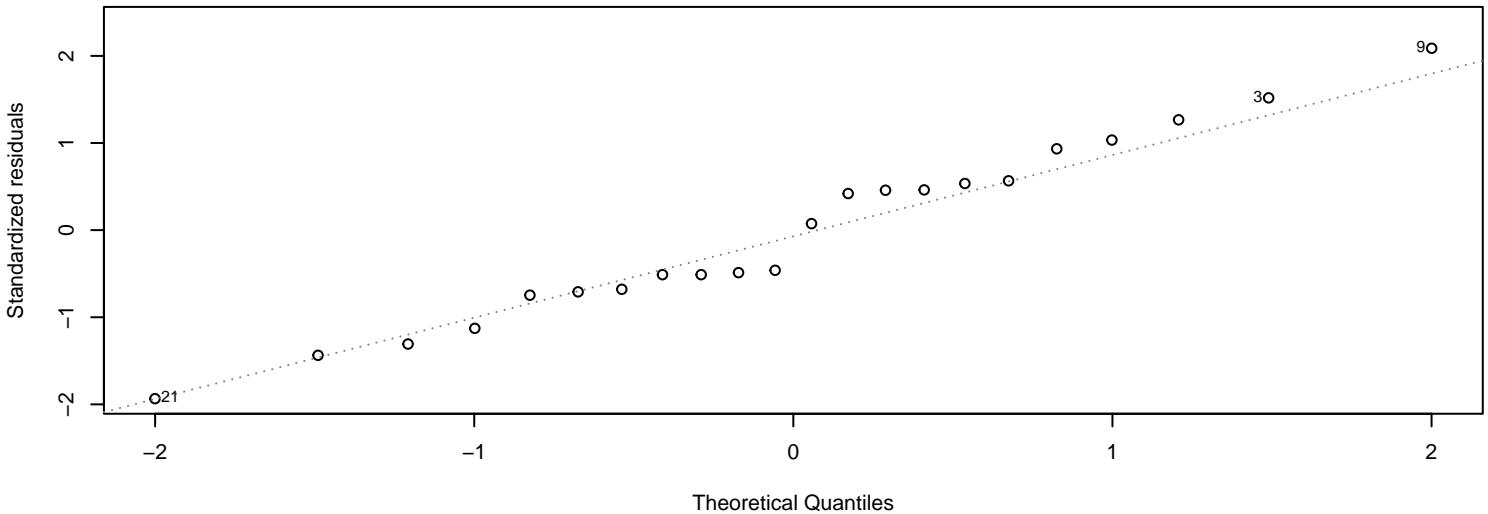
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Scale–Location



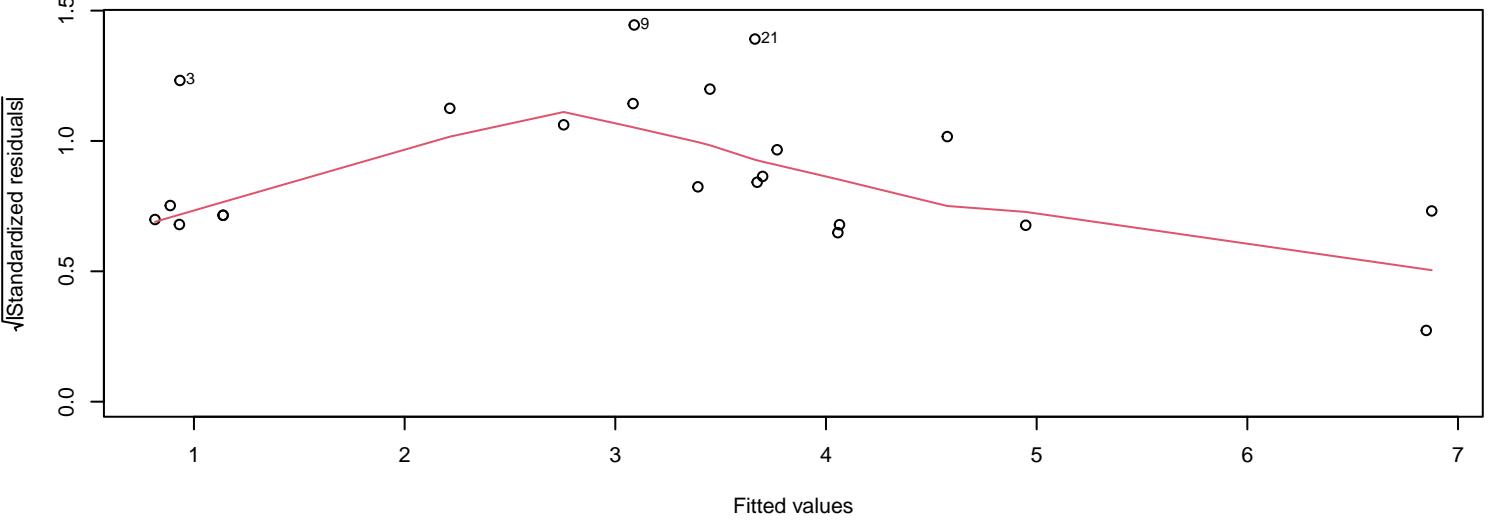
**Residuals vs Fitted: vas\_fatiguecurrent ~ fit\_pre\_max**  
Residuals vs Fitted



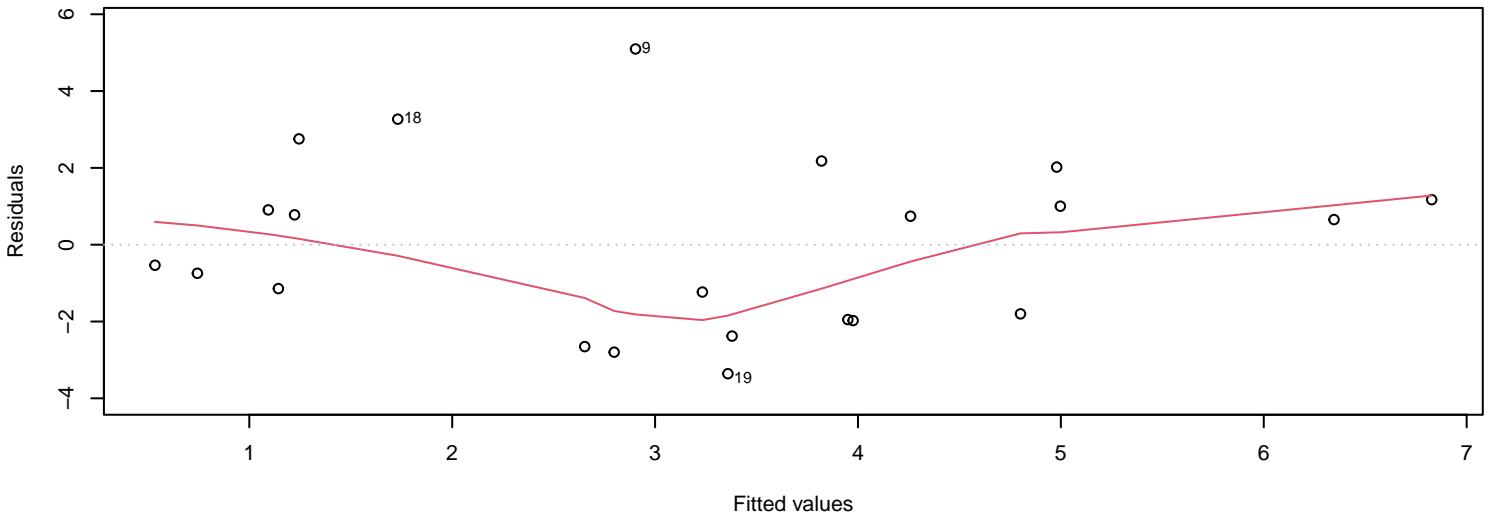
**Normal Q-Q: vas\_fatiguecurrent ~ fit\_pre\_max**  
Q-Q Residuals



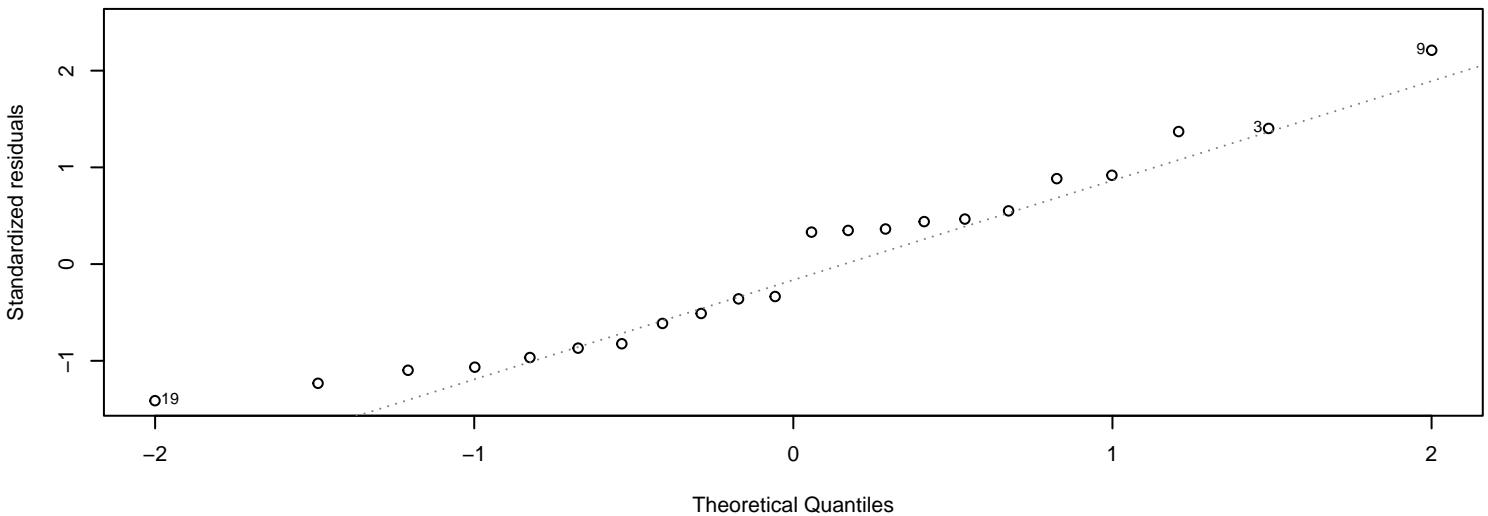
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Scale-Location



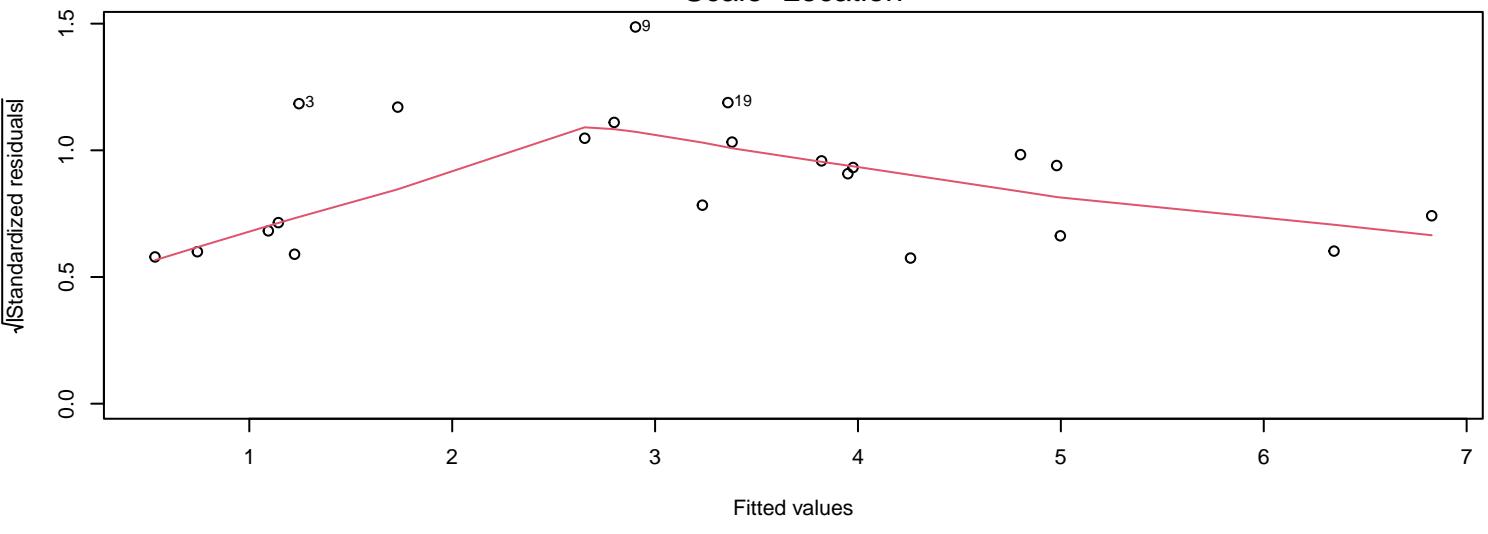
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Residuals vs Fitted



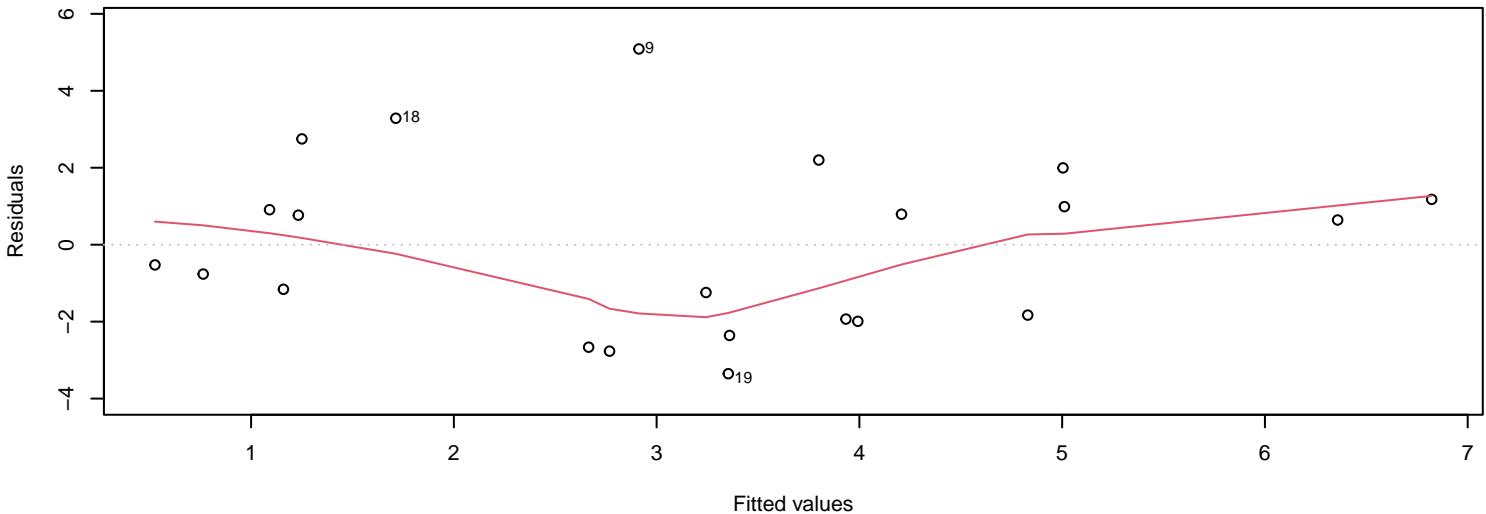
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Q-Q Residuals



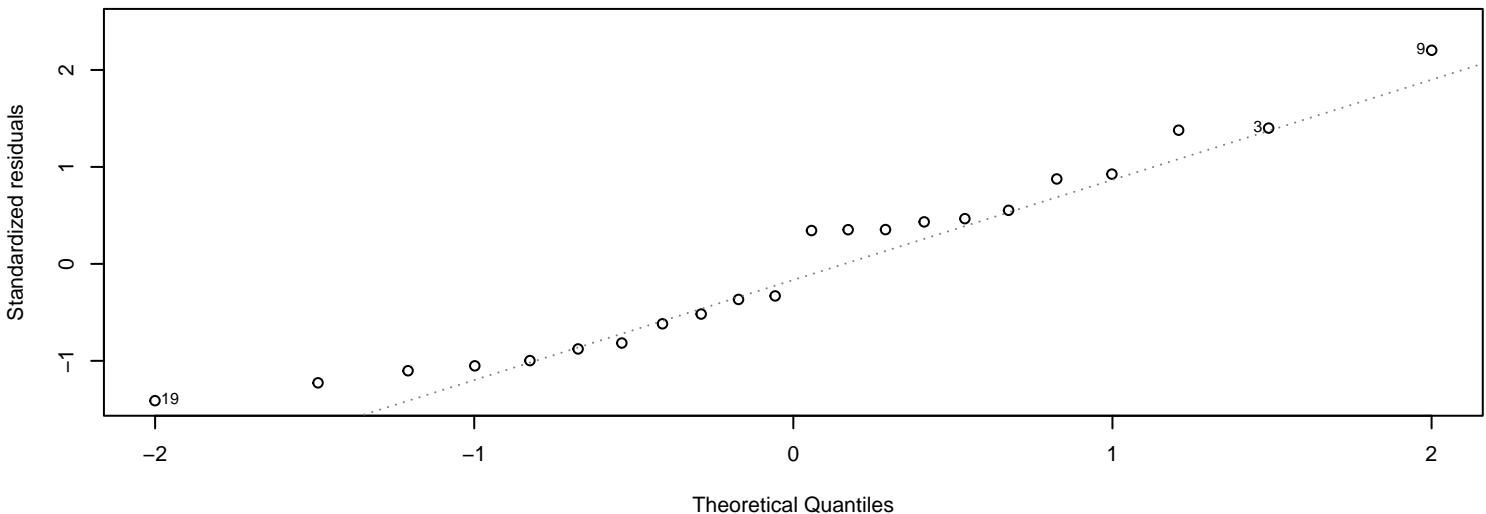
**Scale–Location: vas\_fatiguecurrent ~ pif\_pre\_max**  
Scale–Location



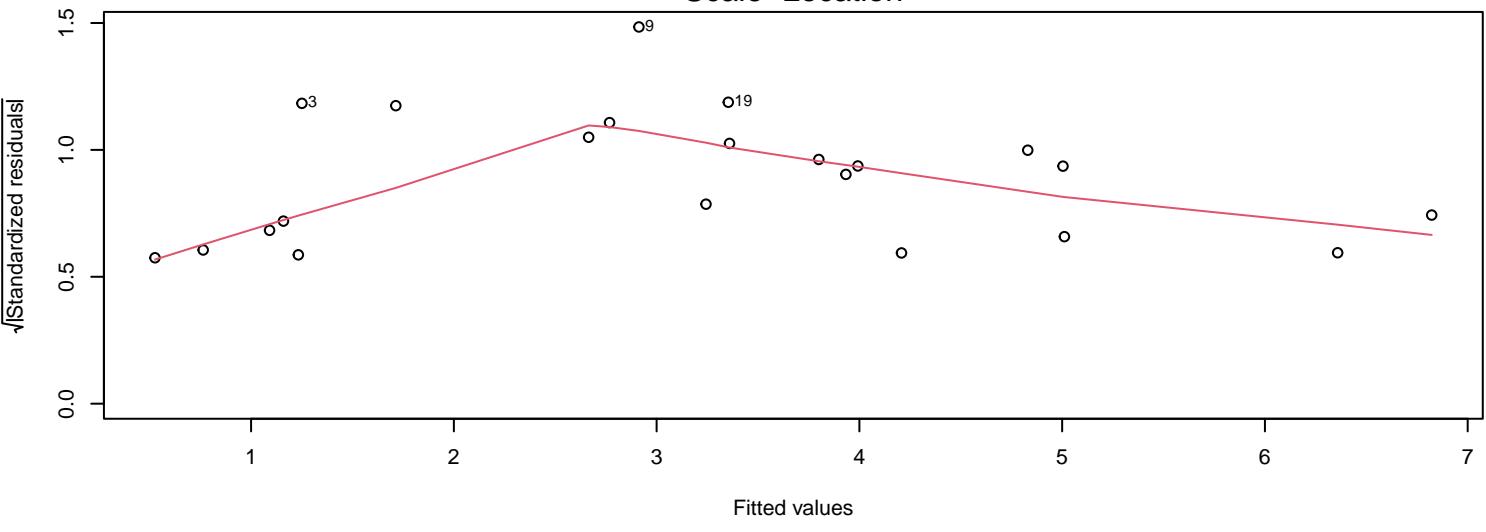
Residuals vs Fitted: vas\_fatiguecurrent ~ sindex\_pre\_max  
Residuals vs Fitted



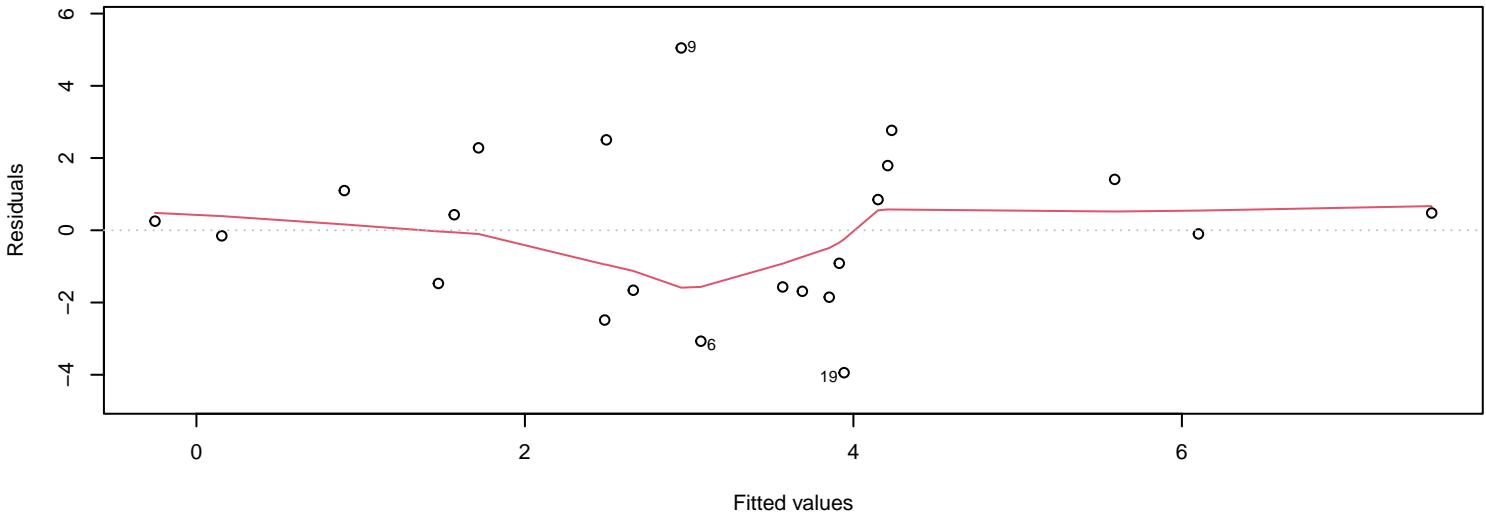
Normal Q-Q: vas\_fatiguecurrent ~ sindex\_pre\_max  
Q-Q Residuals



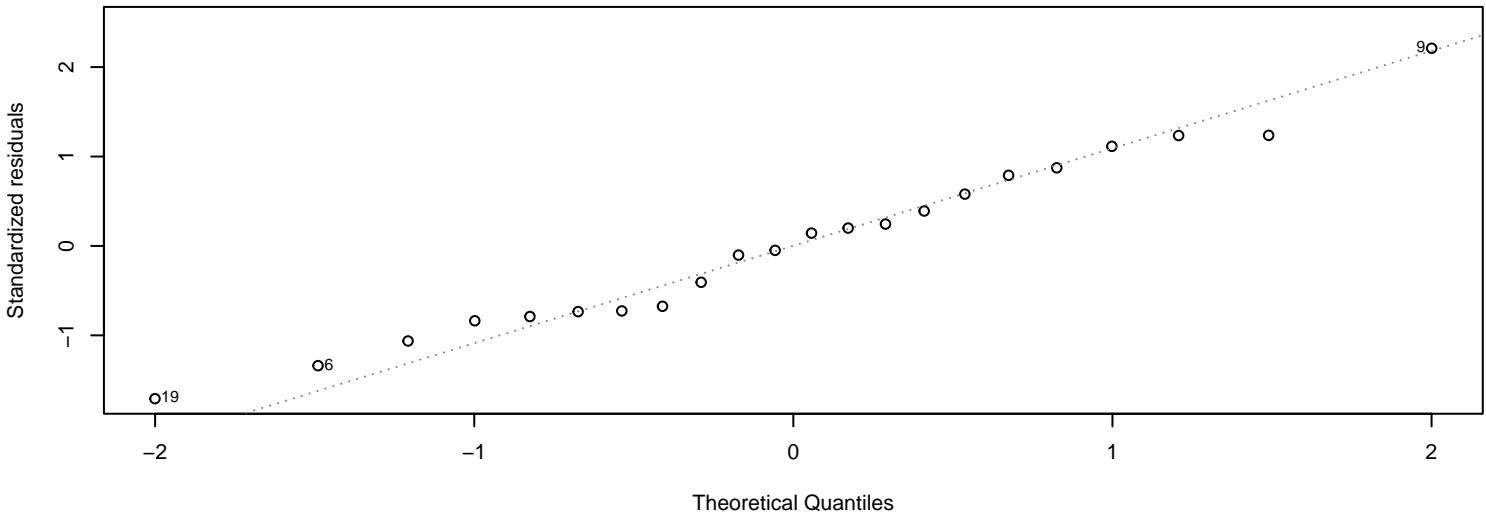
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Scale-Location



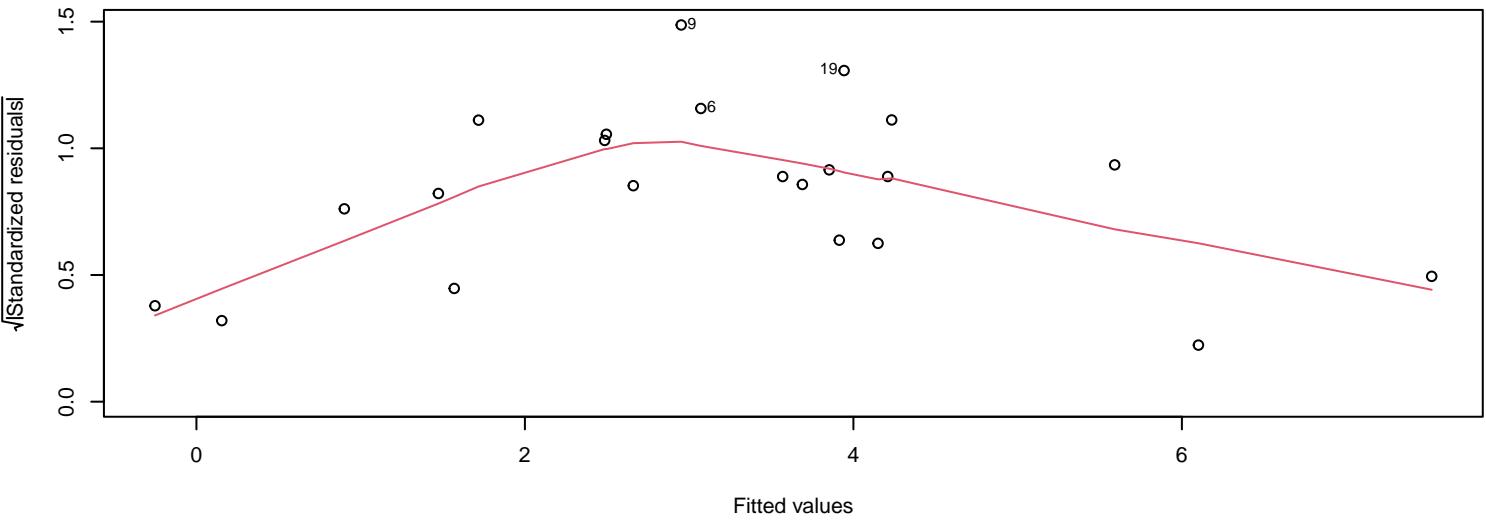
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Residuals vs Fitted



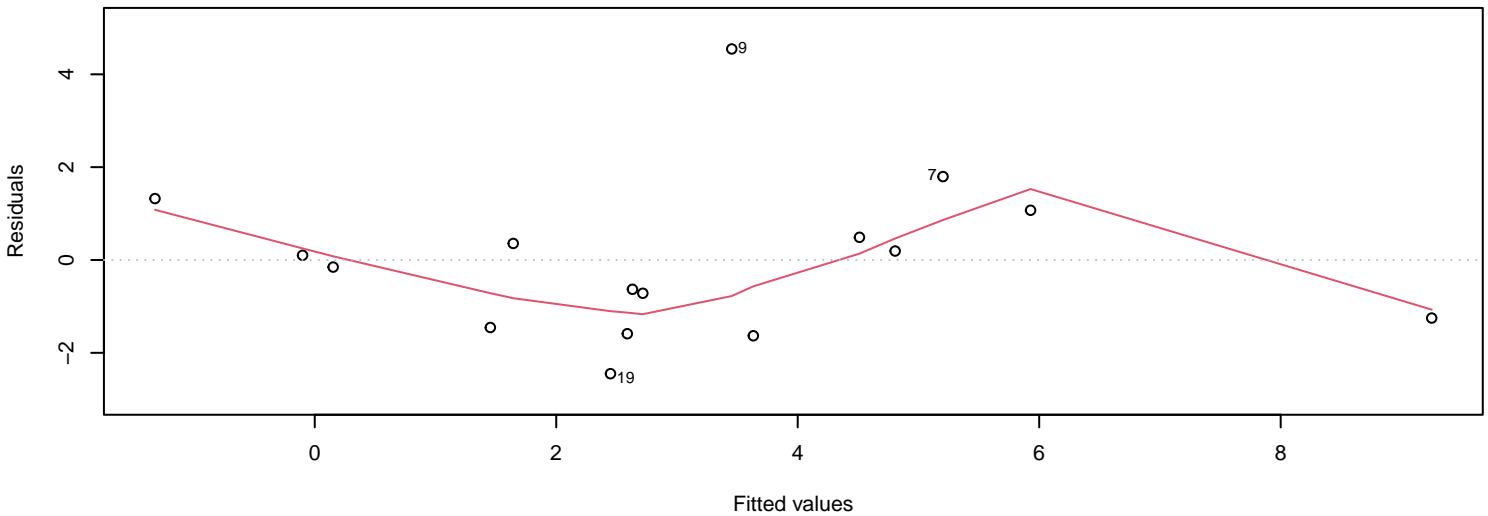
Normal Q-Q: vas\_fatiguecurrent ~ volume\_pre\_max  
Q-Q Residuals



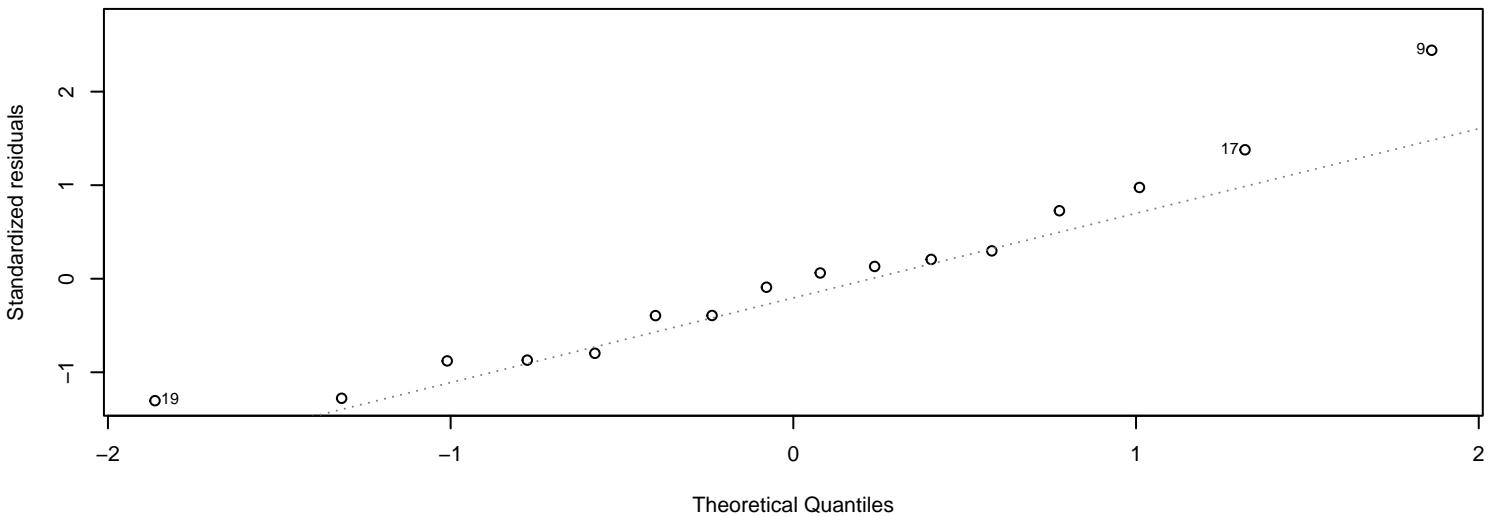
Scale-Location: vas\_fatiguecurrent ~ volume\_pre\_max  
Scale-Location



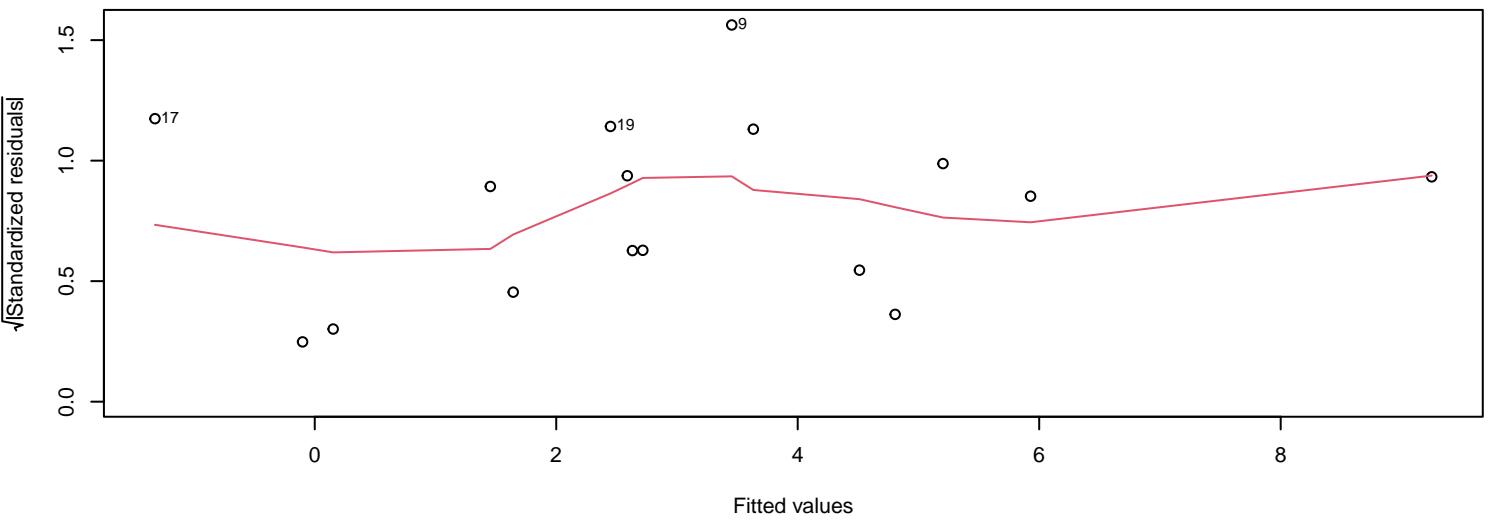
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Residuals vs Fitted



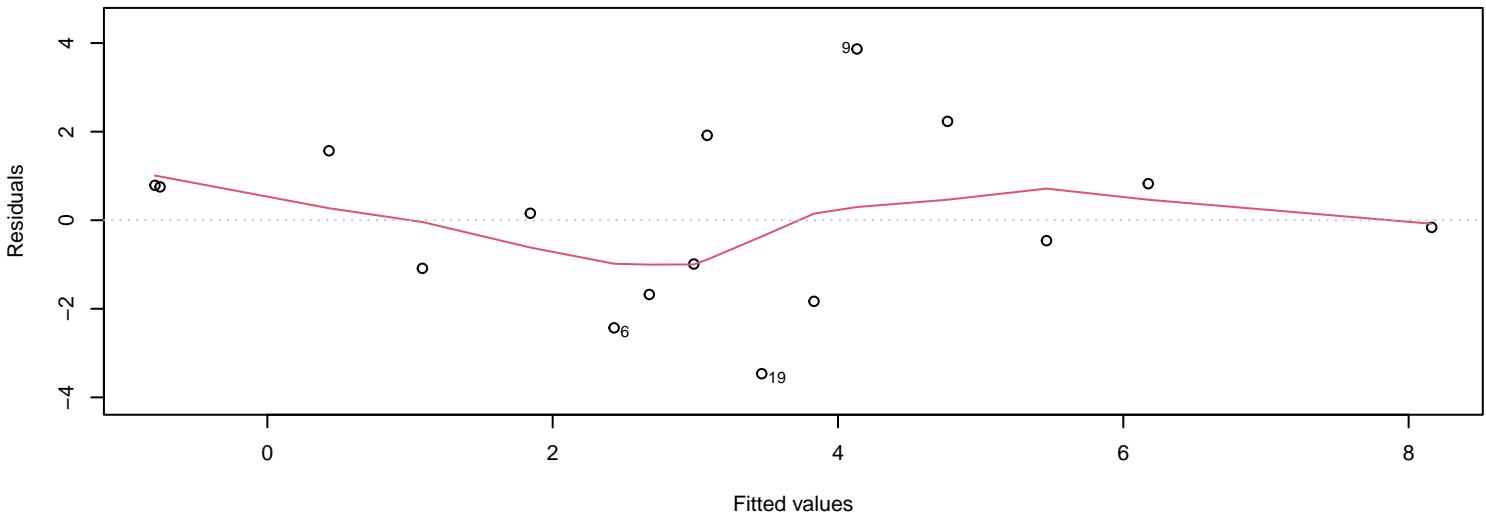
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Q-Q Residuals



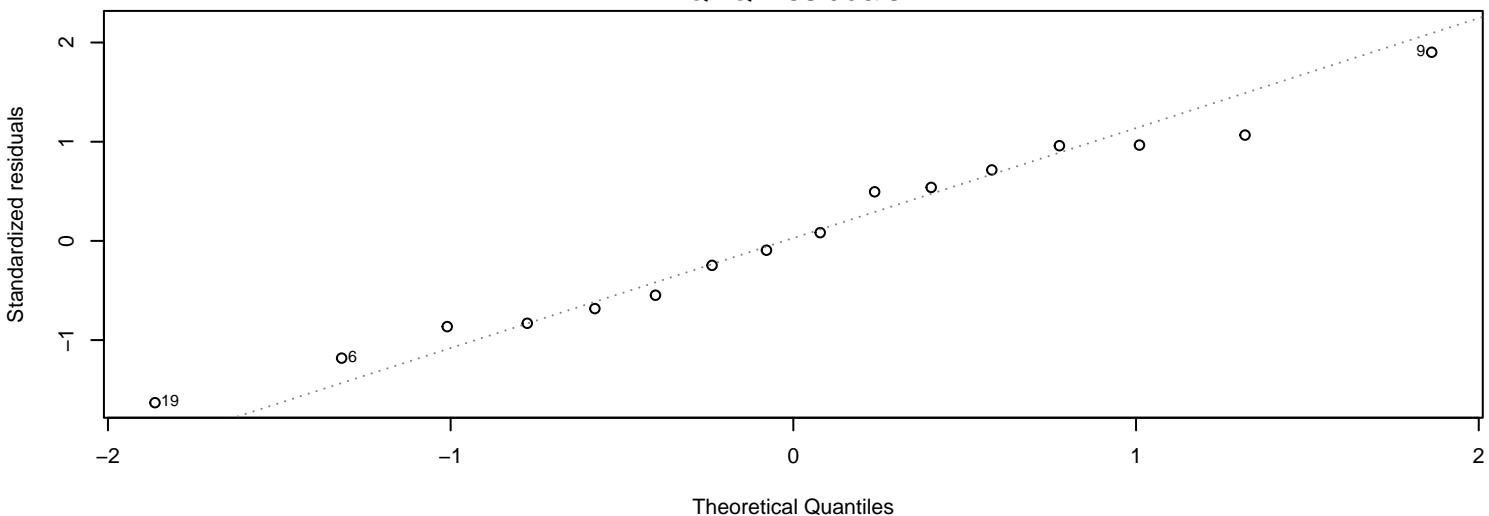
Scale-Location: vas\_fatiguecurrent ~ id\_pre\_max  
Scale-Location



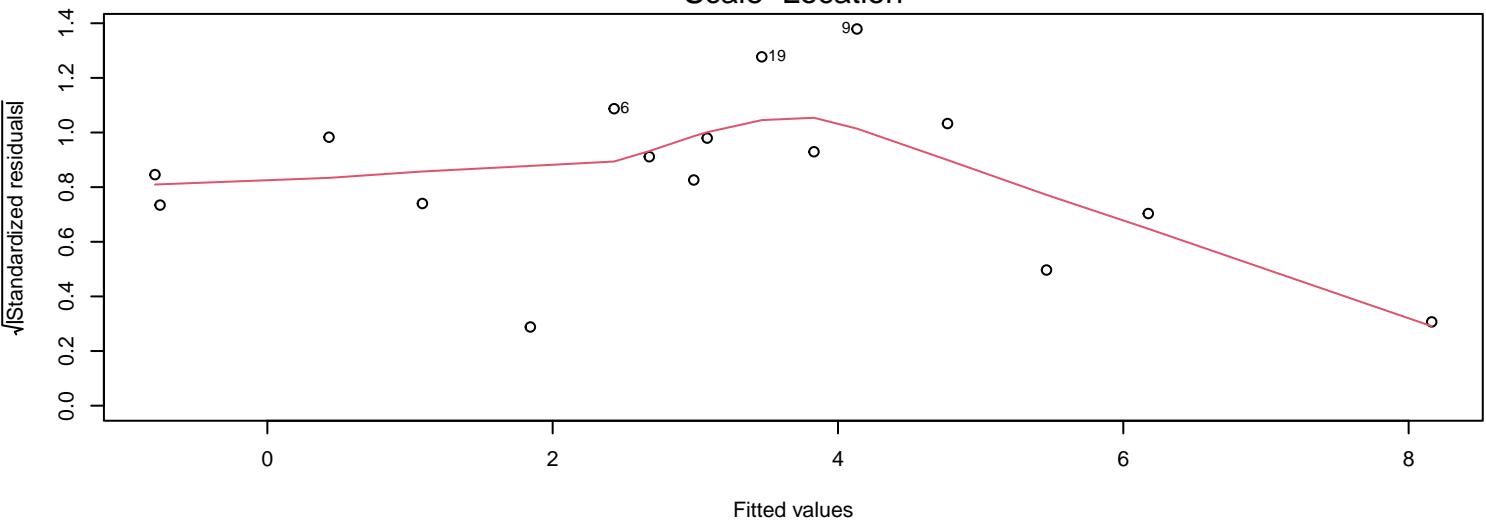
Residuals vs Fitted: vas\_fatiguecurrent ~ slopesmip\_pre\_max  
Residuals vs Fitted



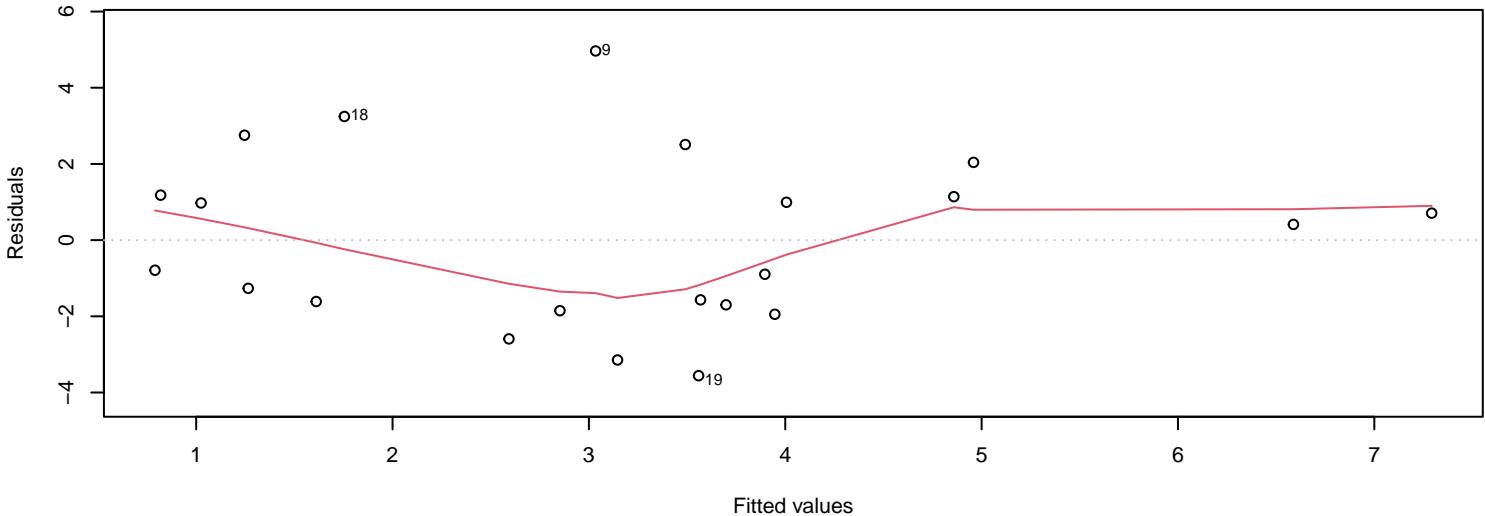
Normal Q–Q: vas\_fatiguecurrent ~ slopesmip\_pre\_max  
Q–Q Residuals



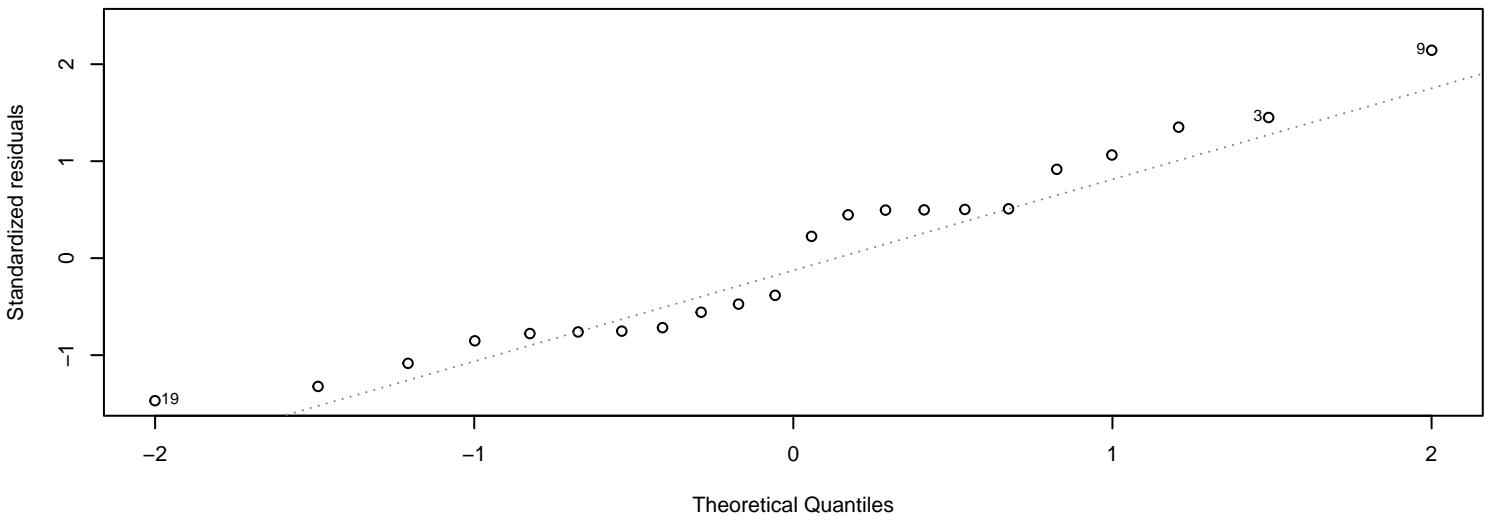
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Scale–Location



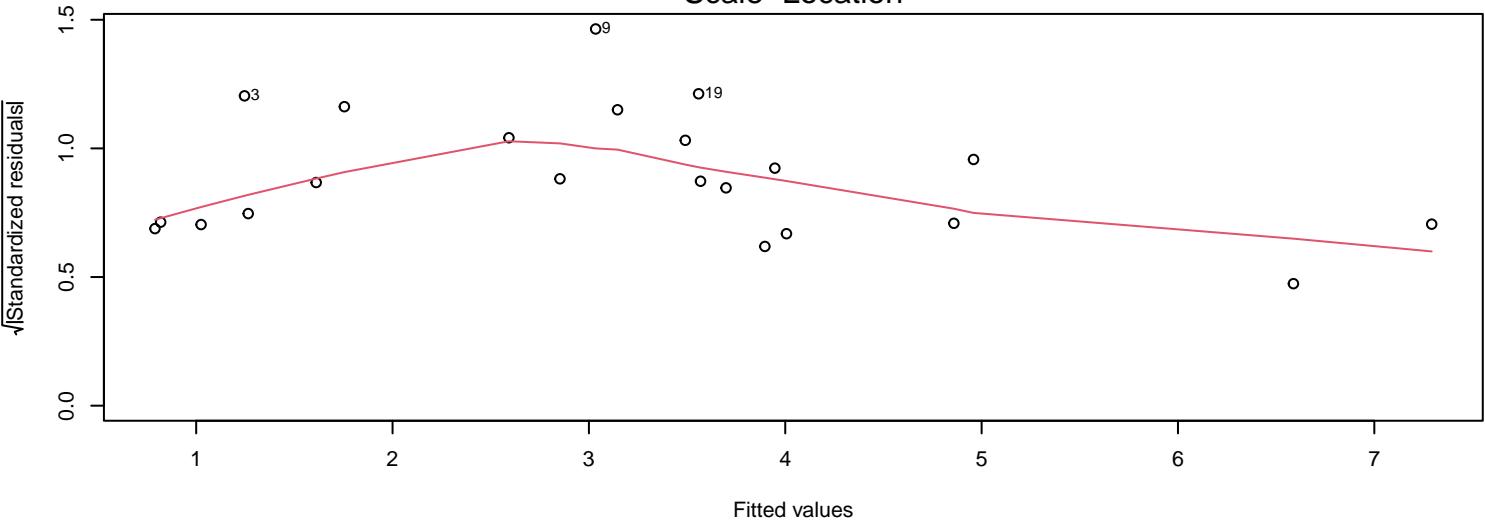
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Residuals vs Fitted



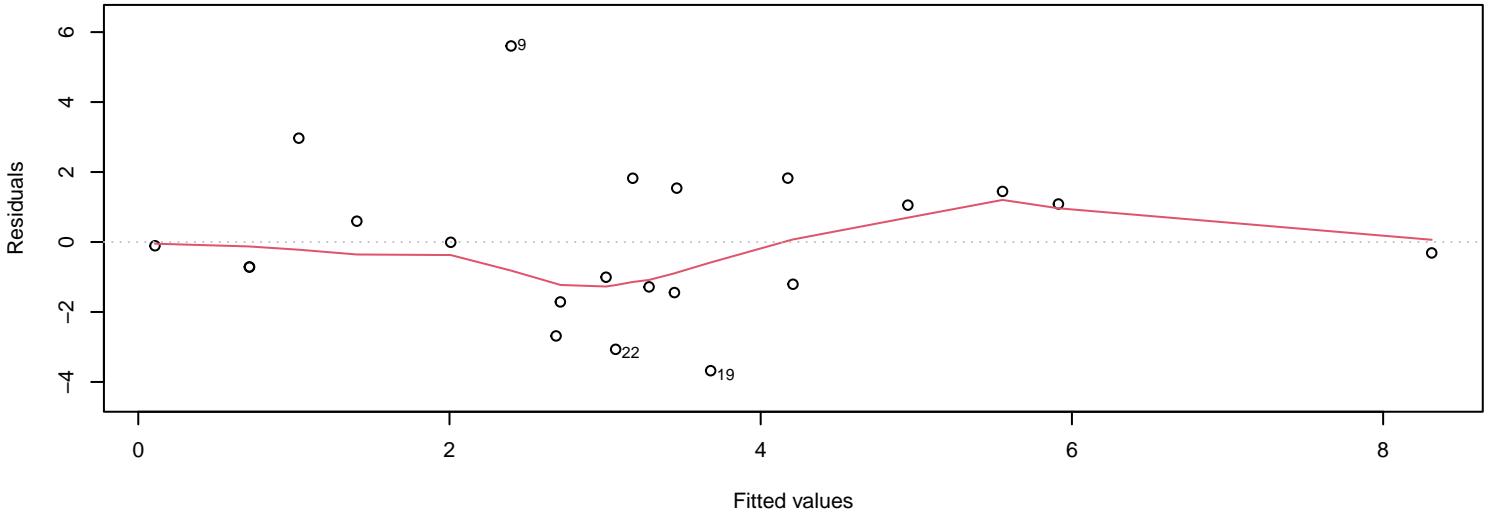
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Q-Q Residuals



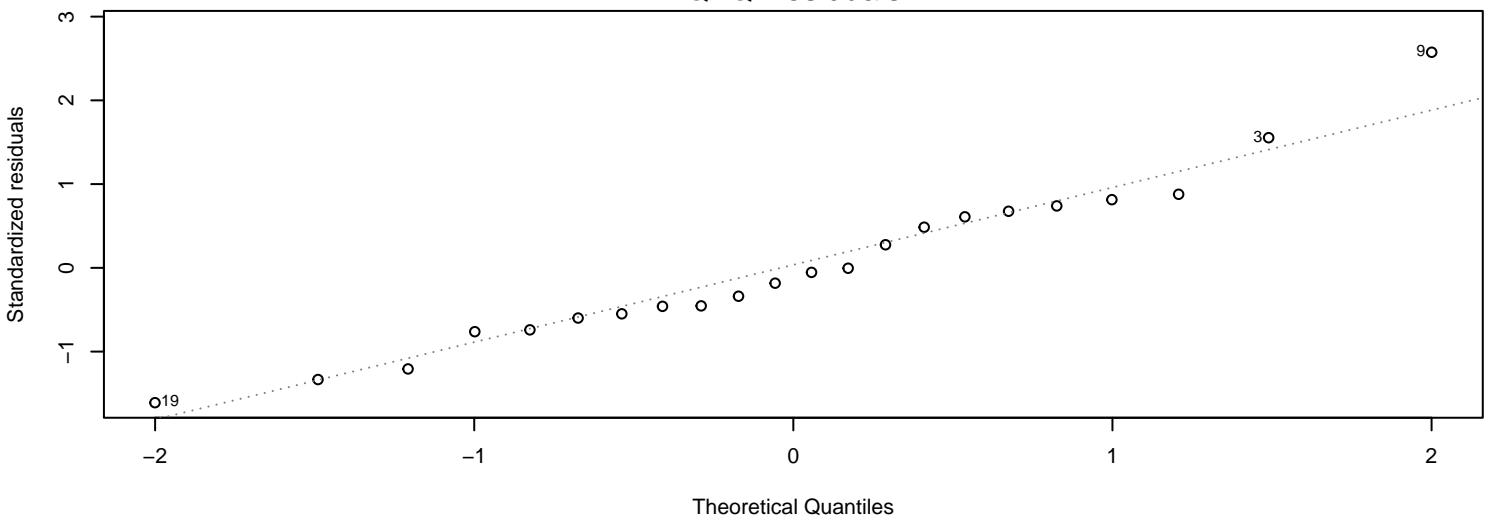
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Scale–Location



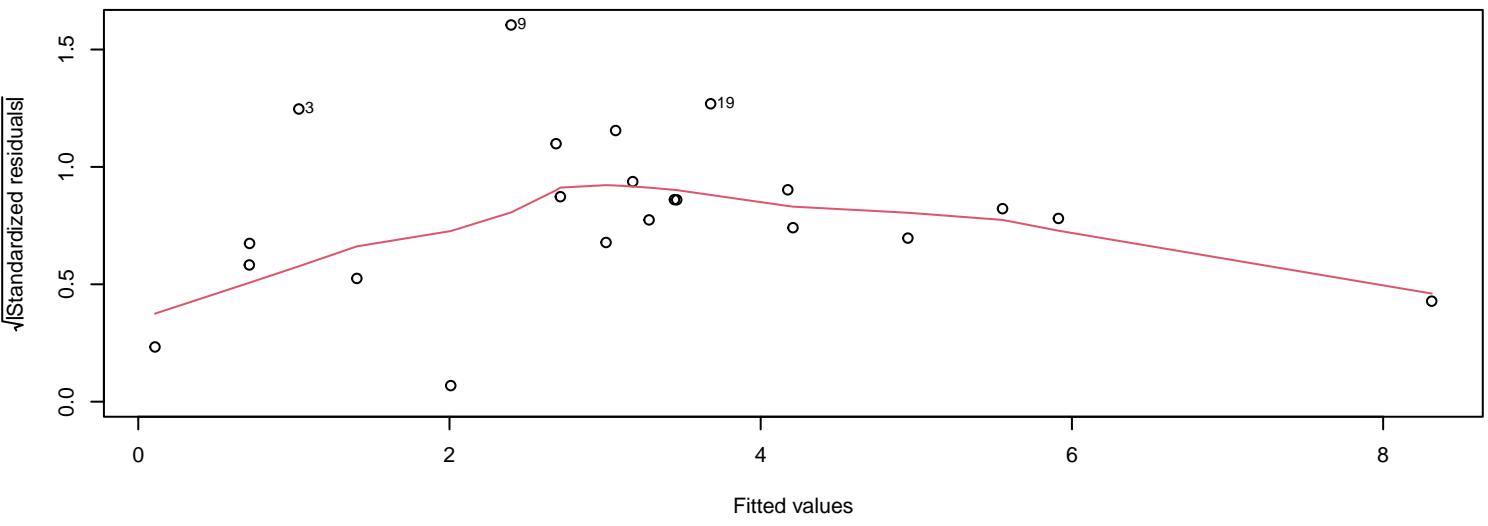
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Residuals vs Fitted



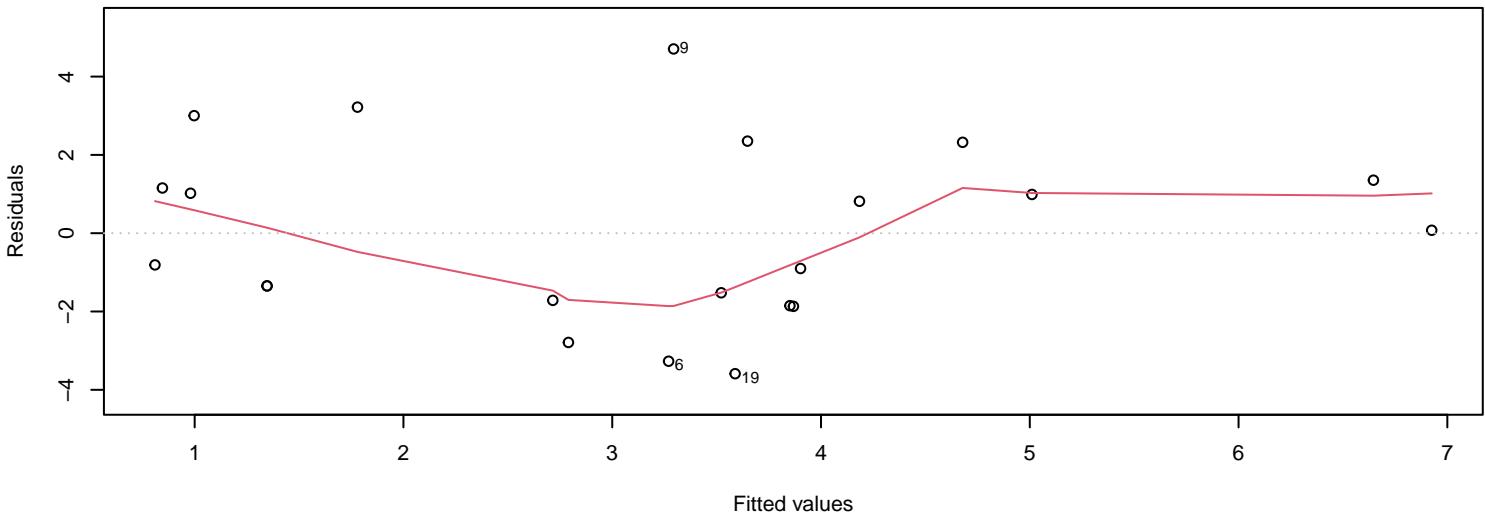
Normal Q-Q: vas\_fatiguecurrent ~ smip\_post\_max  
Q-Q Residuals



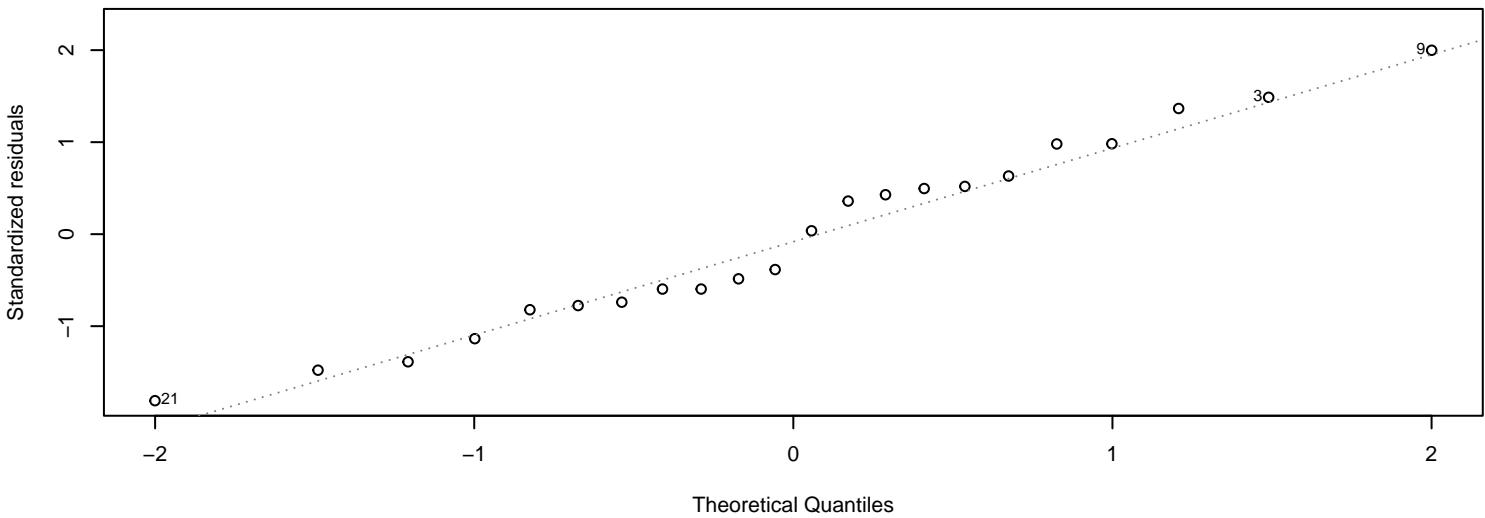
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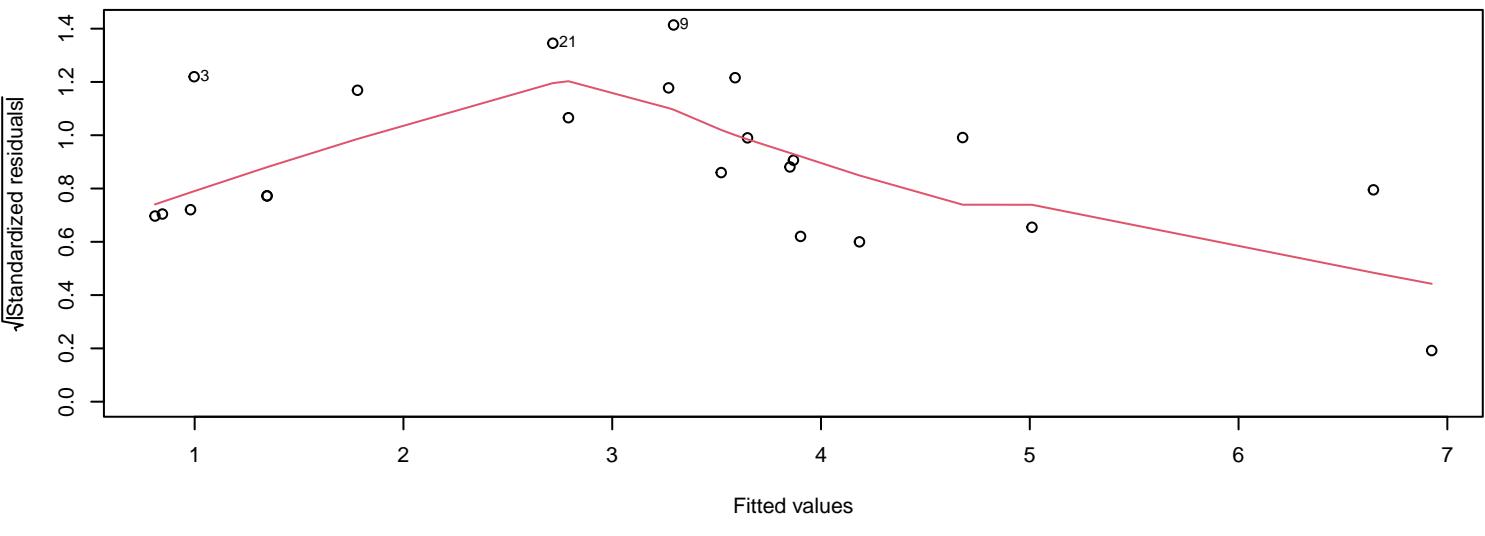
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Residuals vs Fitted



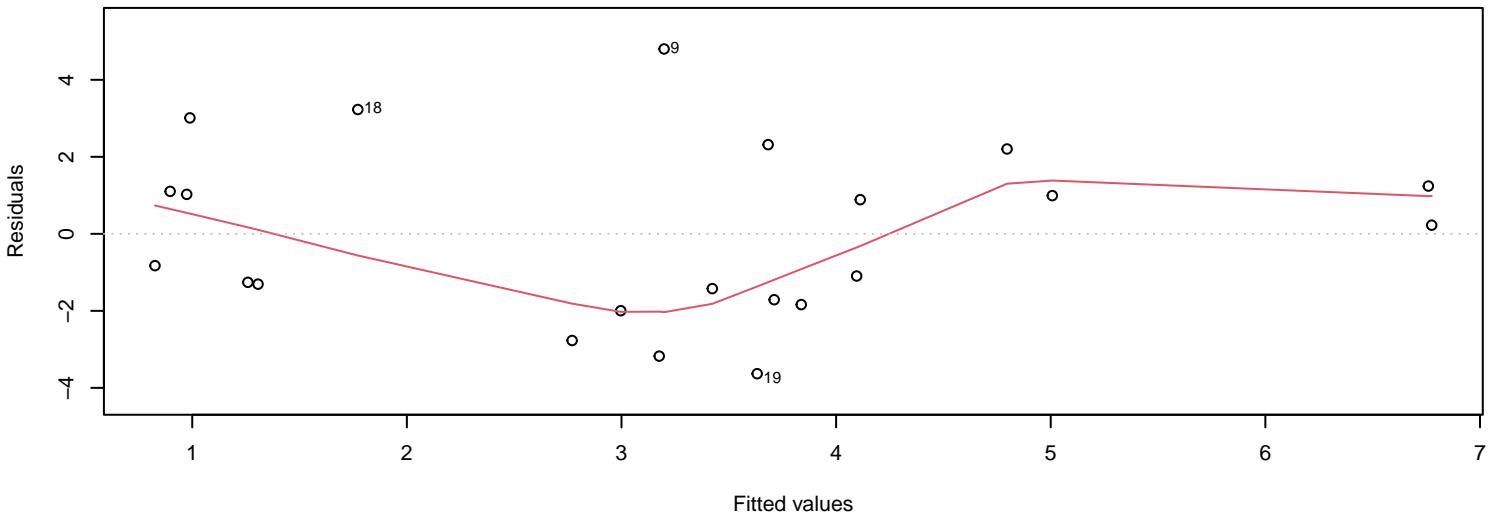
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Q-Q Residuals



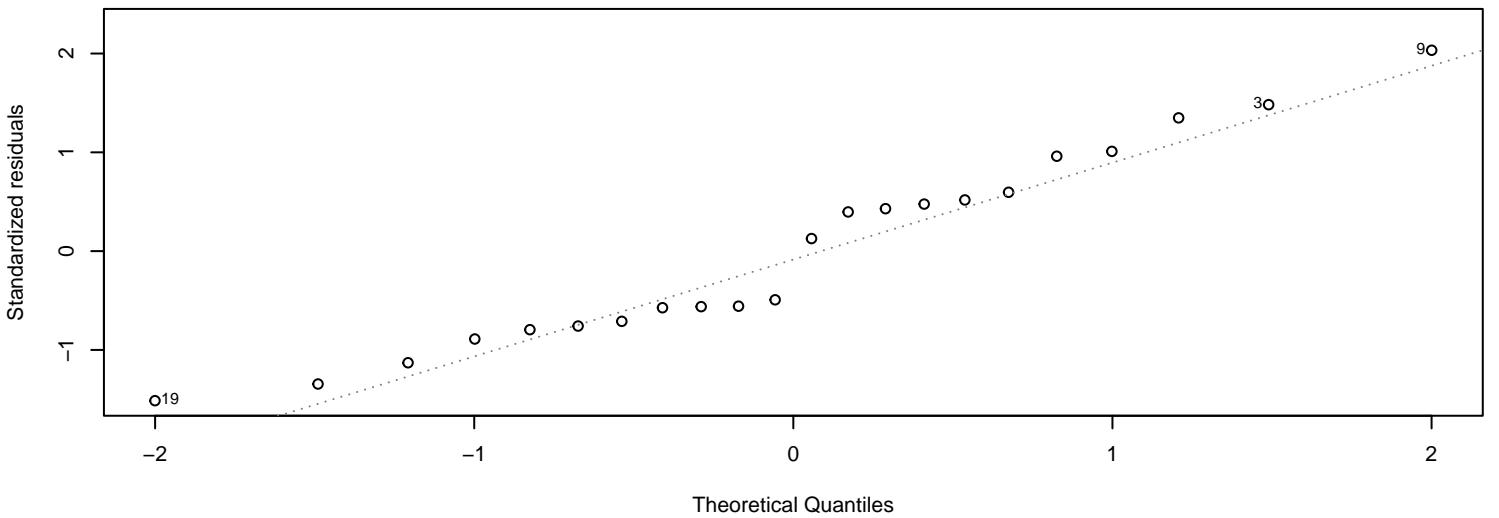
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Scale–Location



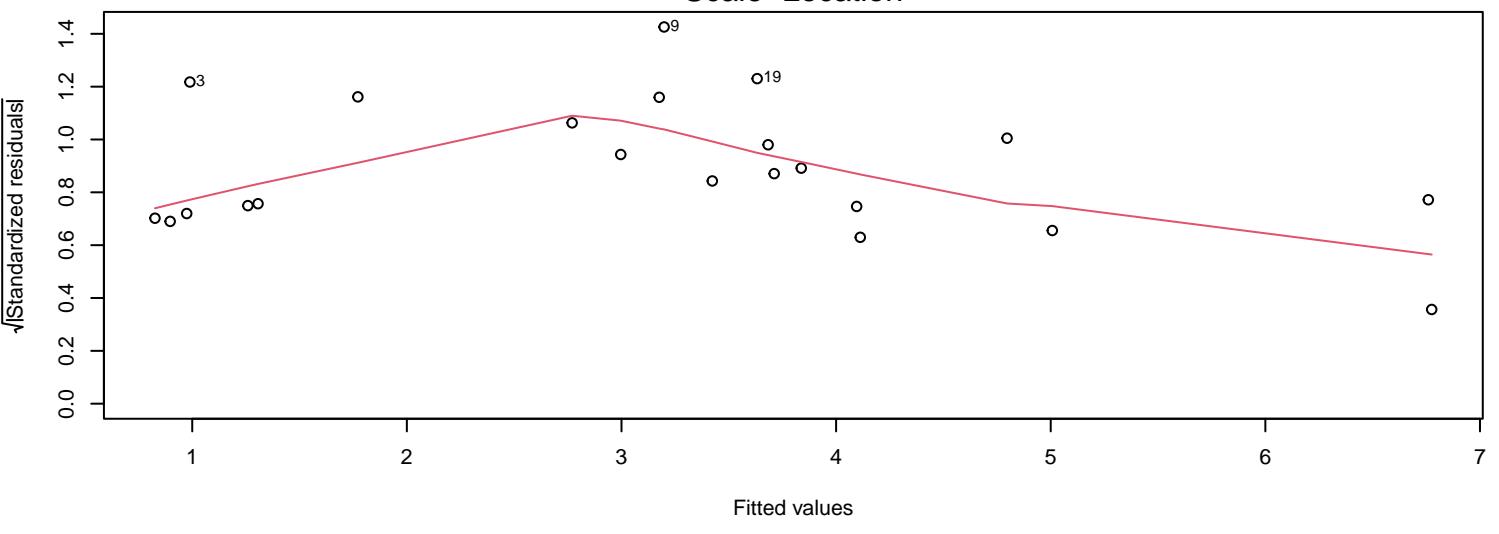
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Residuals vs Fitted



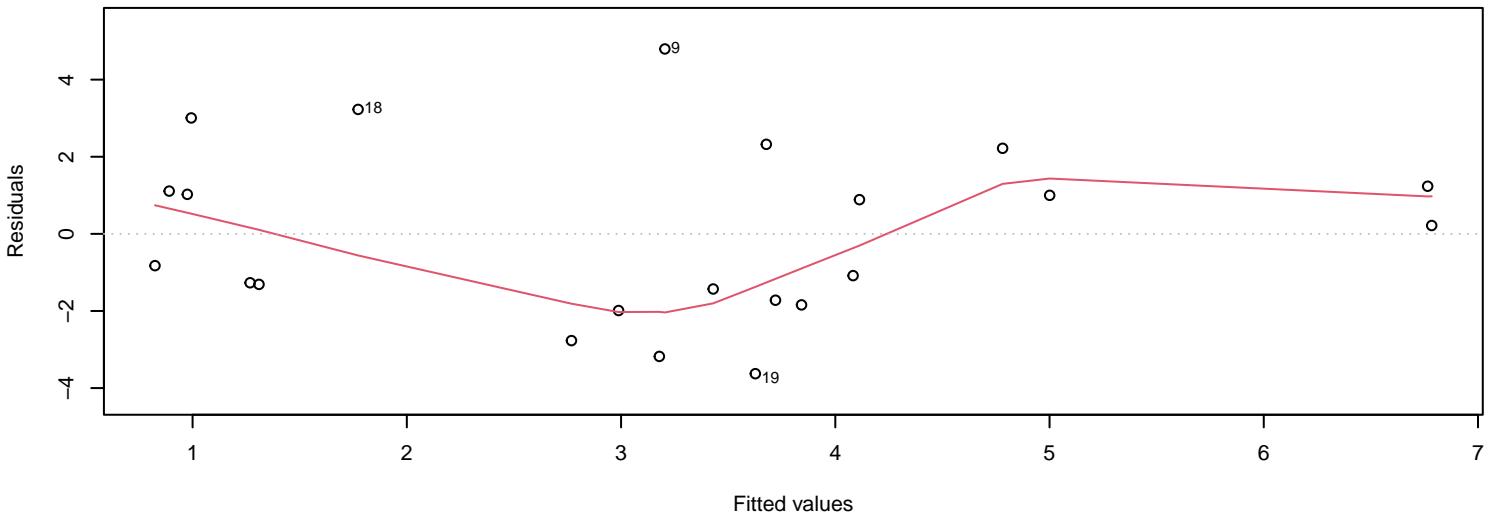
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Q-Q Residuals



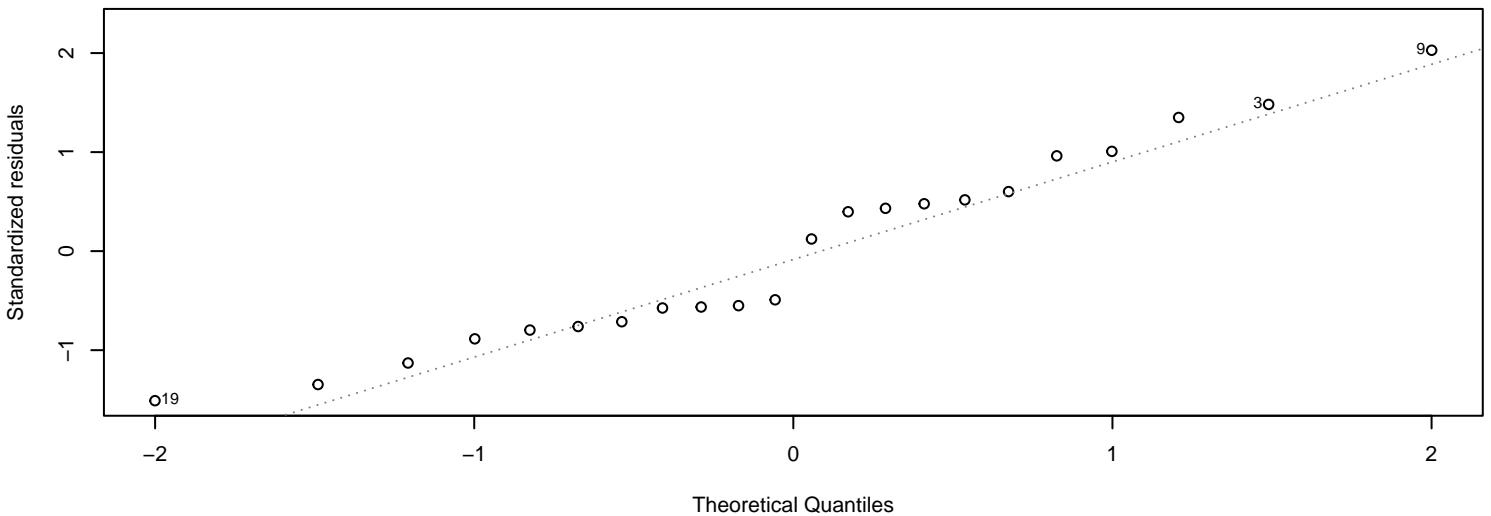
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Scale-Location



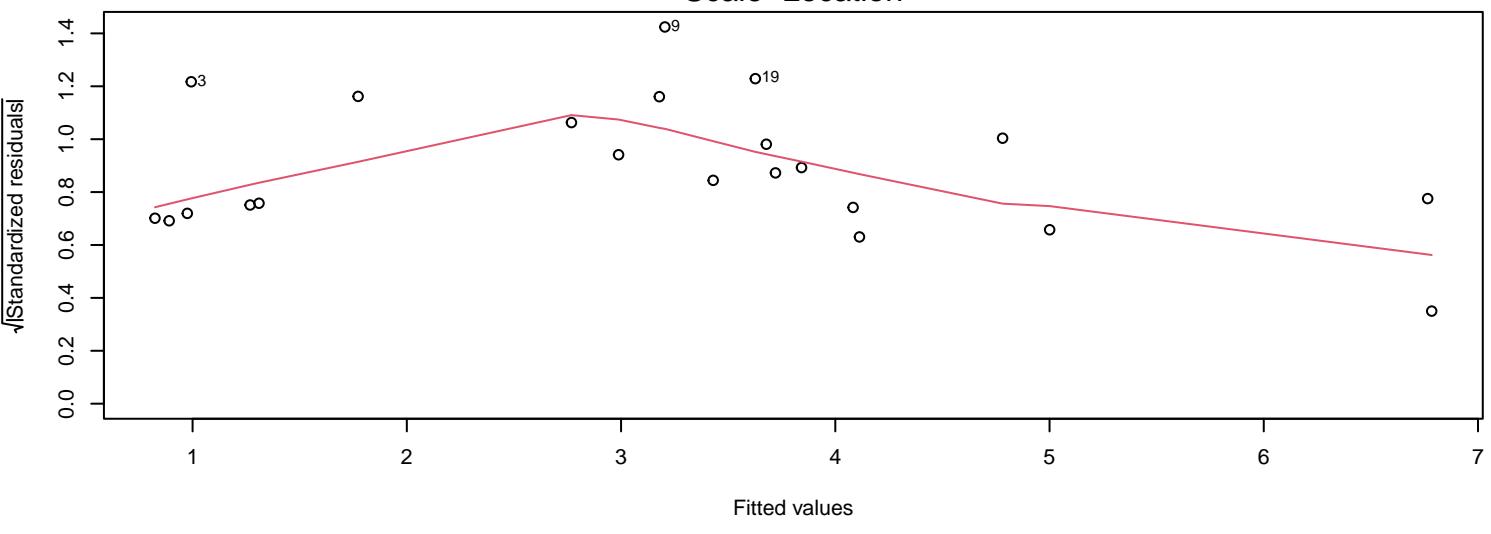
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Residuals vs Fitted



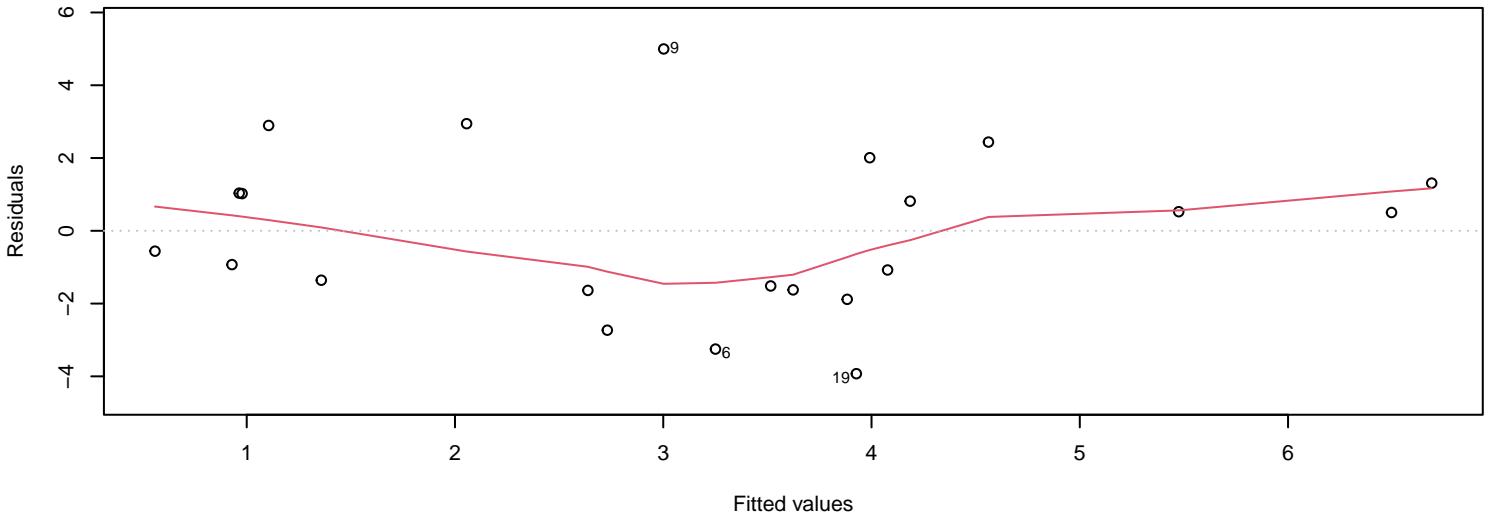
Normal Q–Q: vas\_fatiguecurrent ~ sindex\_post\_max  
Q–Q Residuals



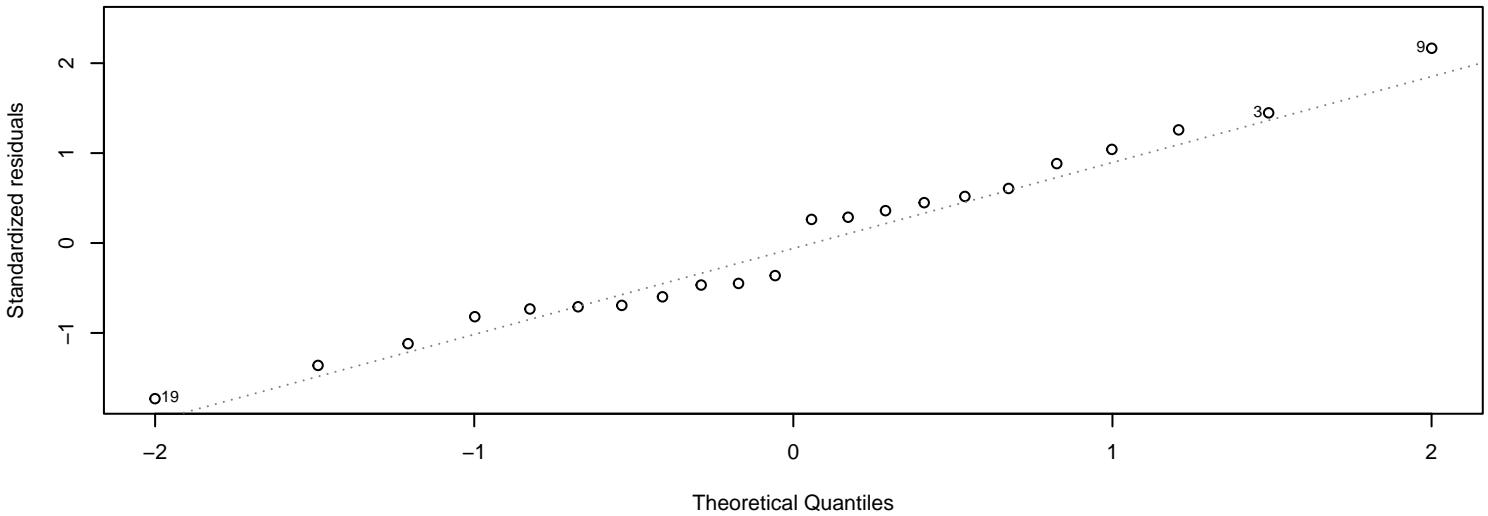
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Scale–Location



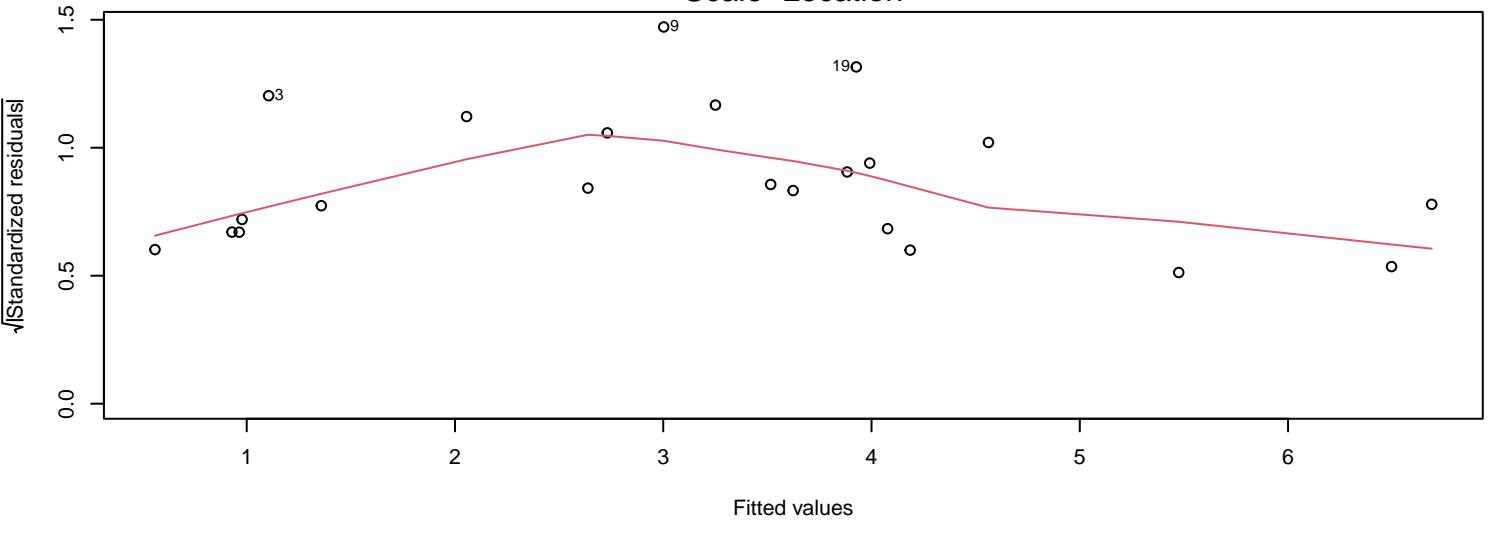
Residuals vs Fitted: vas\_fatiguecurrent ~ volume\_post\_max  
Residuals vs Fitted



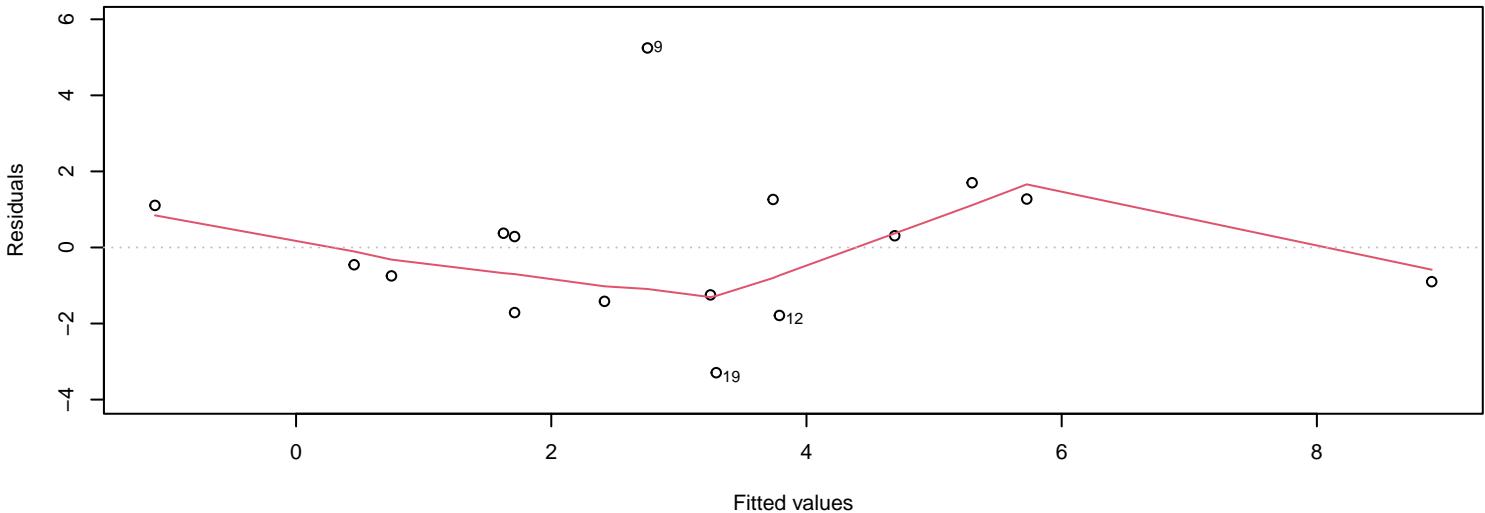
Normal Q-Q: vas\_fatiguecurrent ~ volume\_post\_max  
Q-Q Residuals



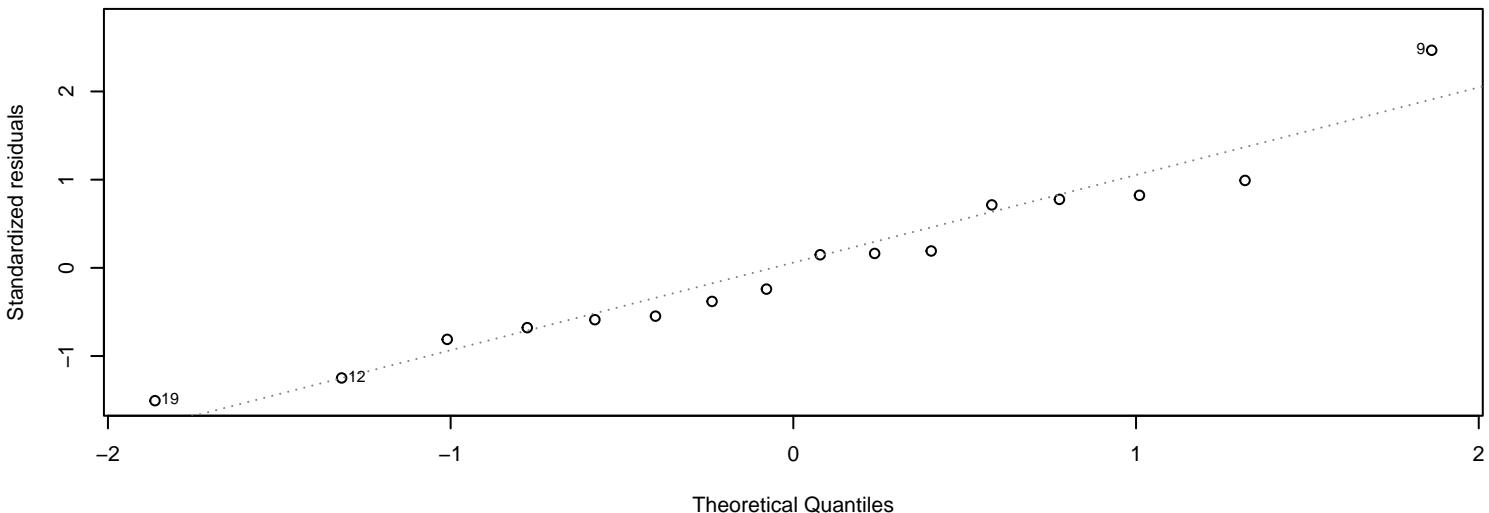
Scale-Location: vas\_fatiguecurrent ~ volume\_post\_max  
Scale-Location



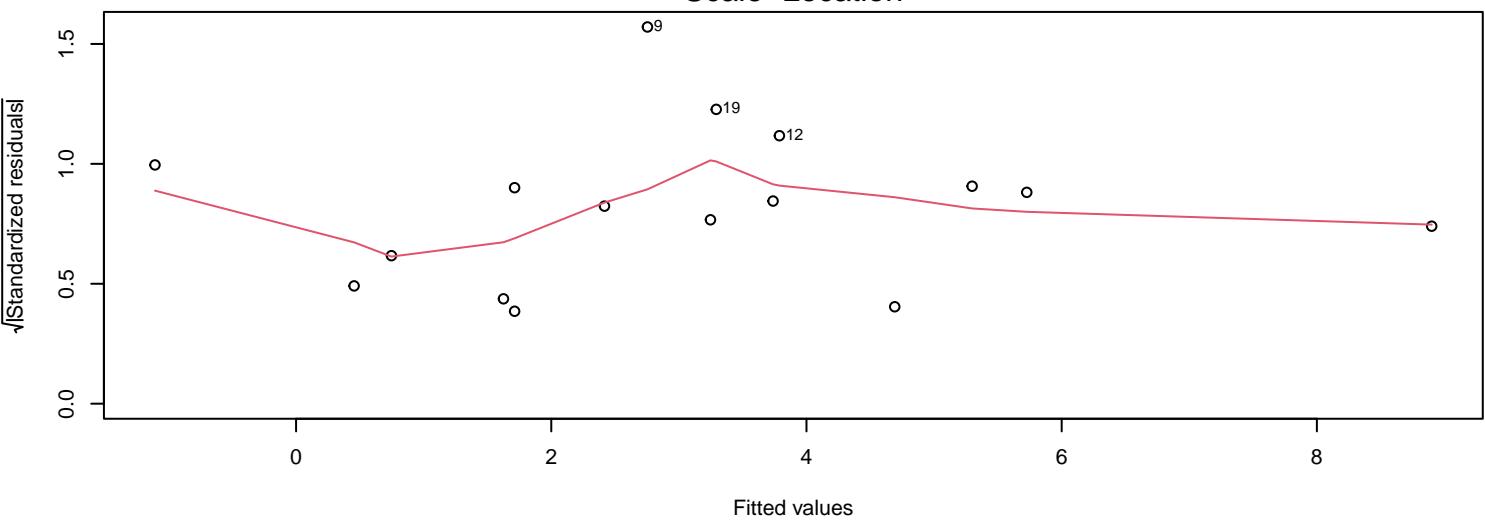
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Residuals vs Fitted



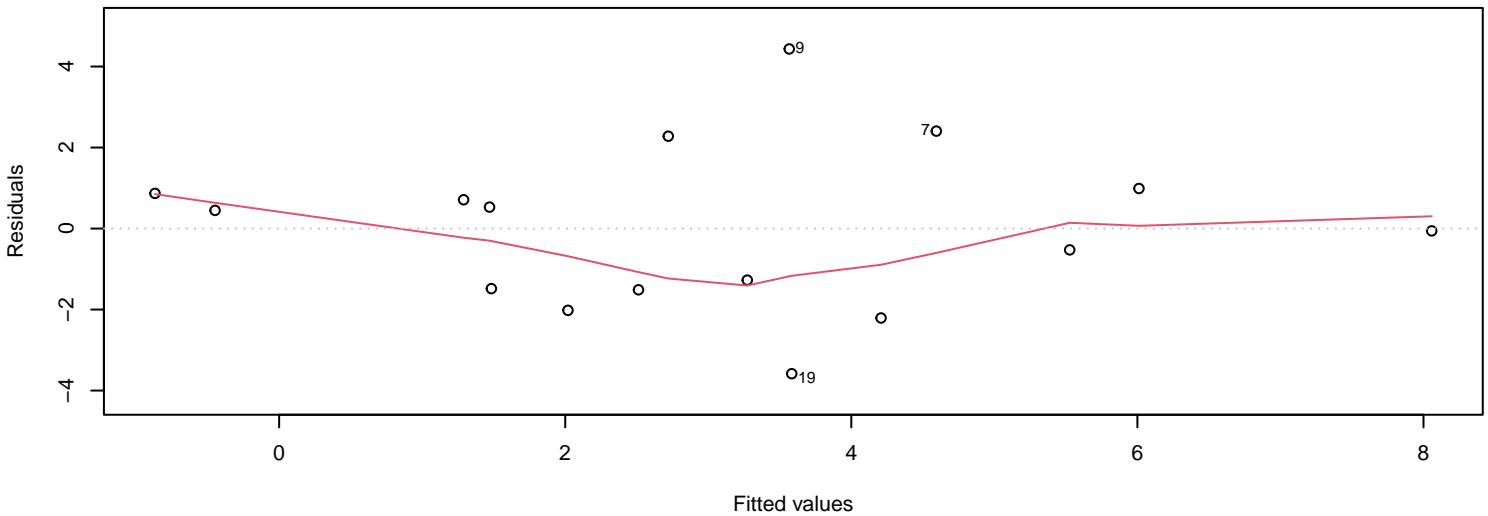
**Normal Q–Q: vas\_fatiguecurrent ~ id\_post\_max**  
Q–Q Residuals



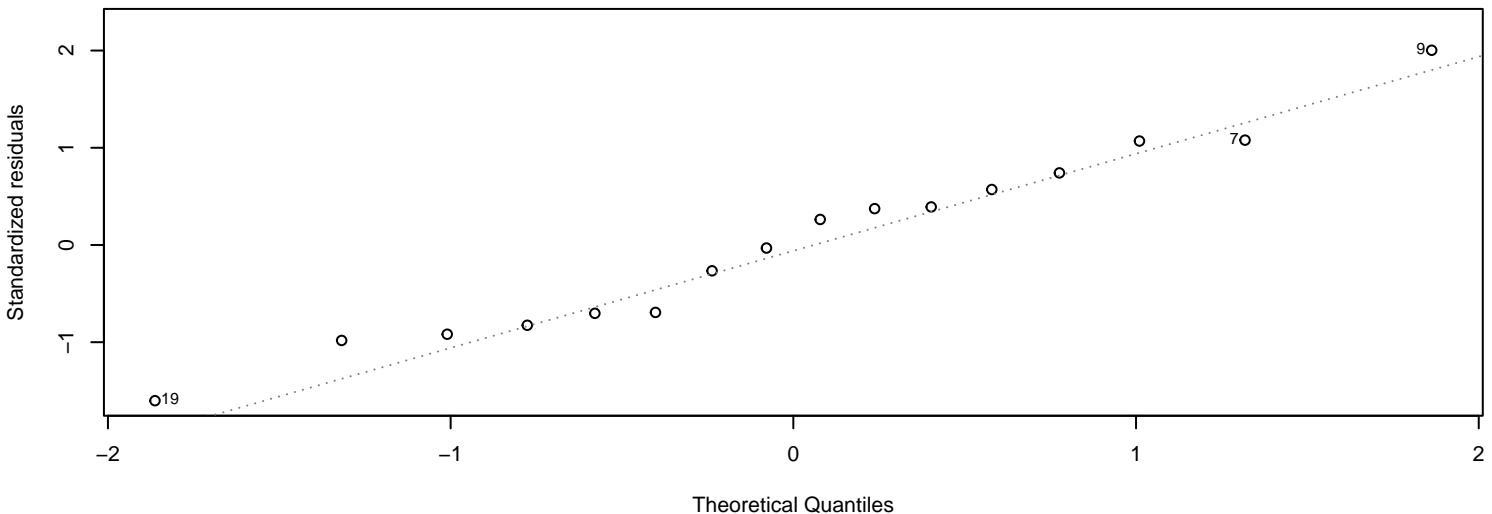
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Scale–Location



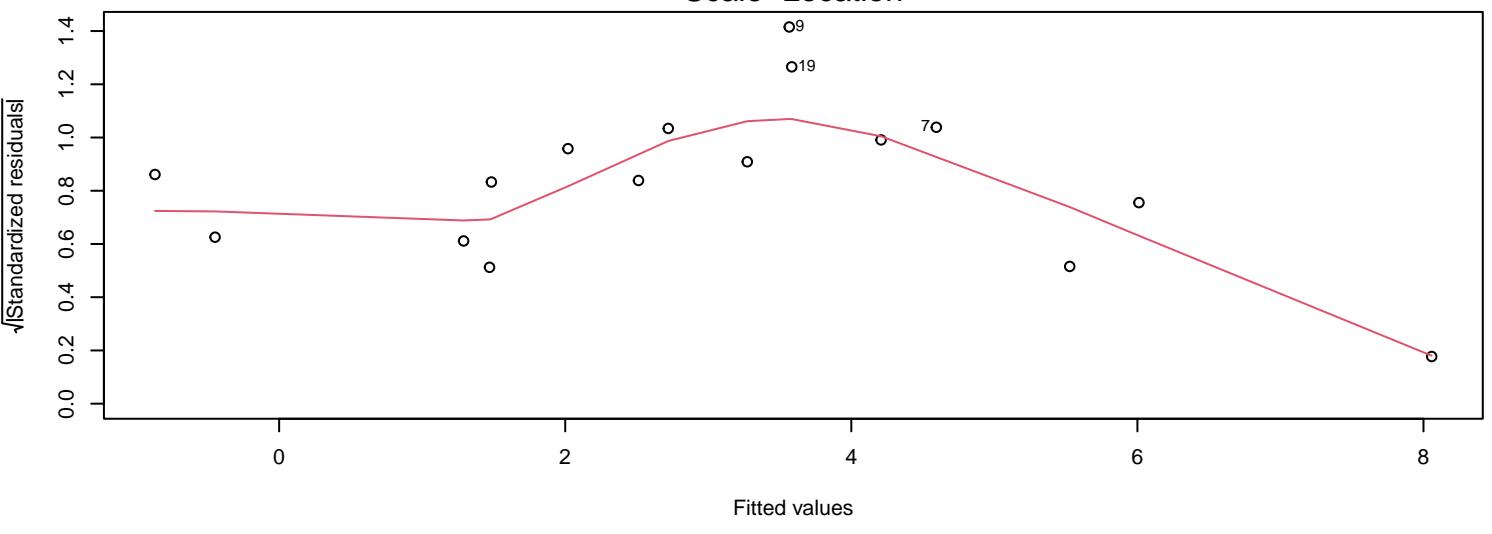
Residuals vs Fitted: vas\_fatiguecurrent ~ slopesmip\_post\_max  
Residuals vs Fitted



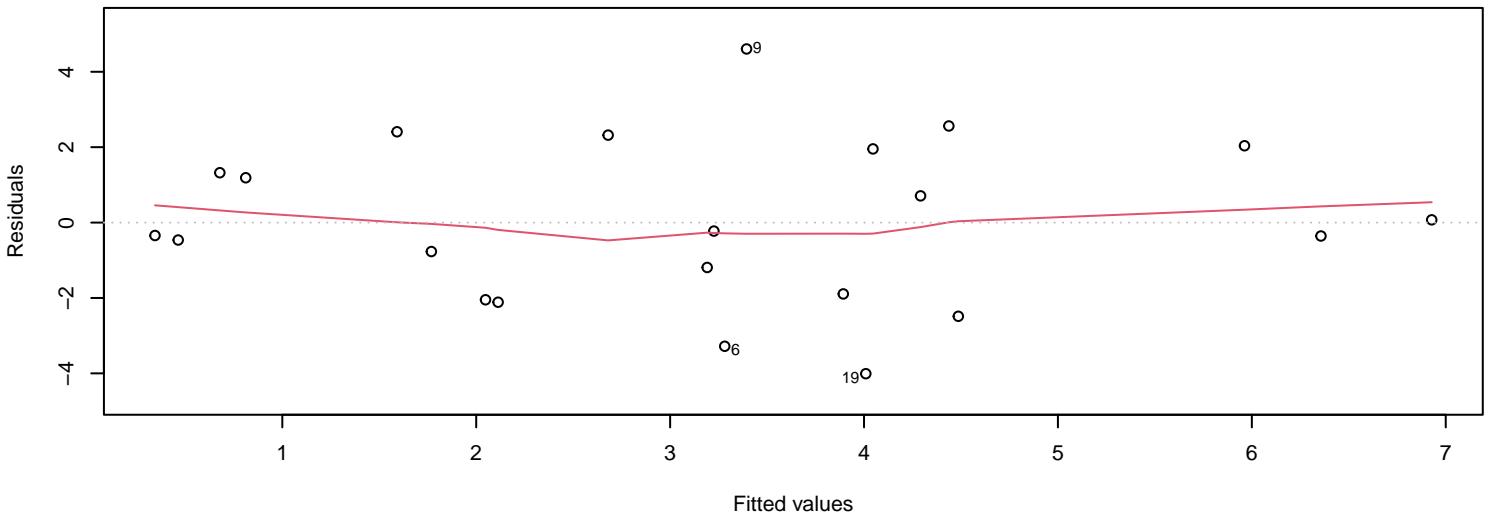
Normal Q–Q: vas\_fatiguecurrent ~ slopesmip\_post\_max  
Q–Q Residuals



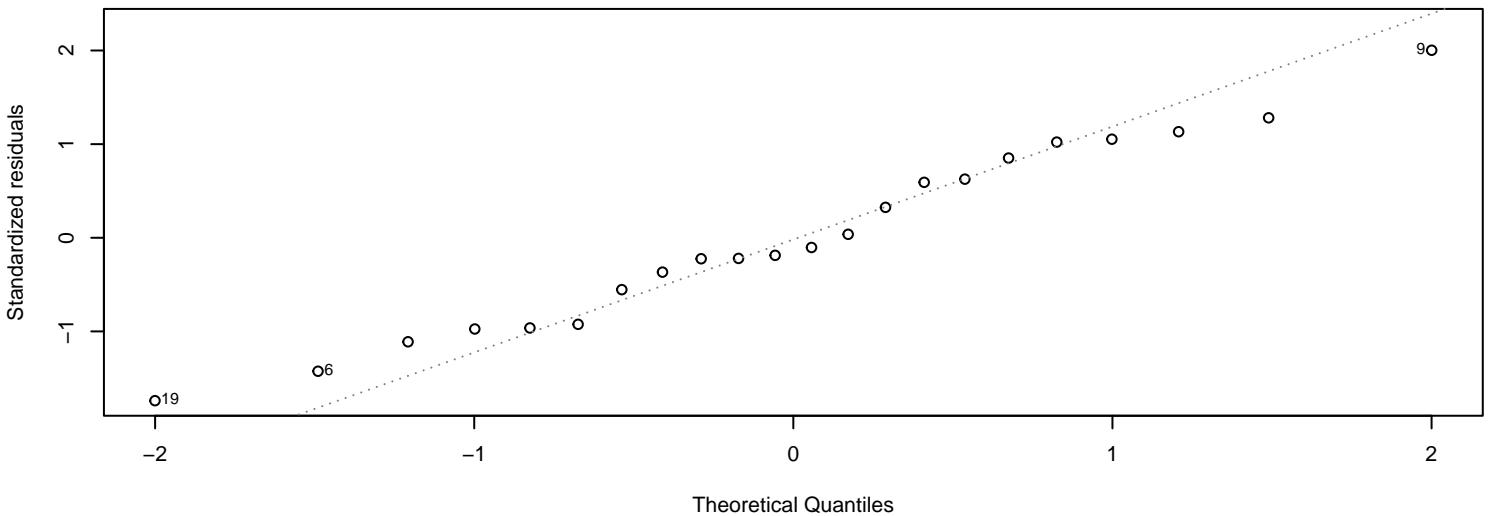
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Scale–Location



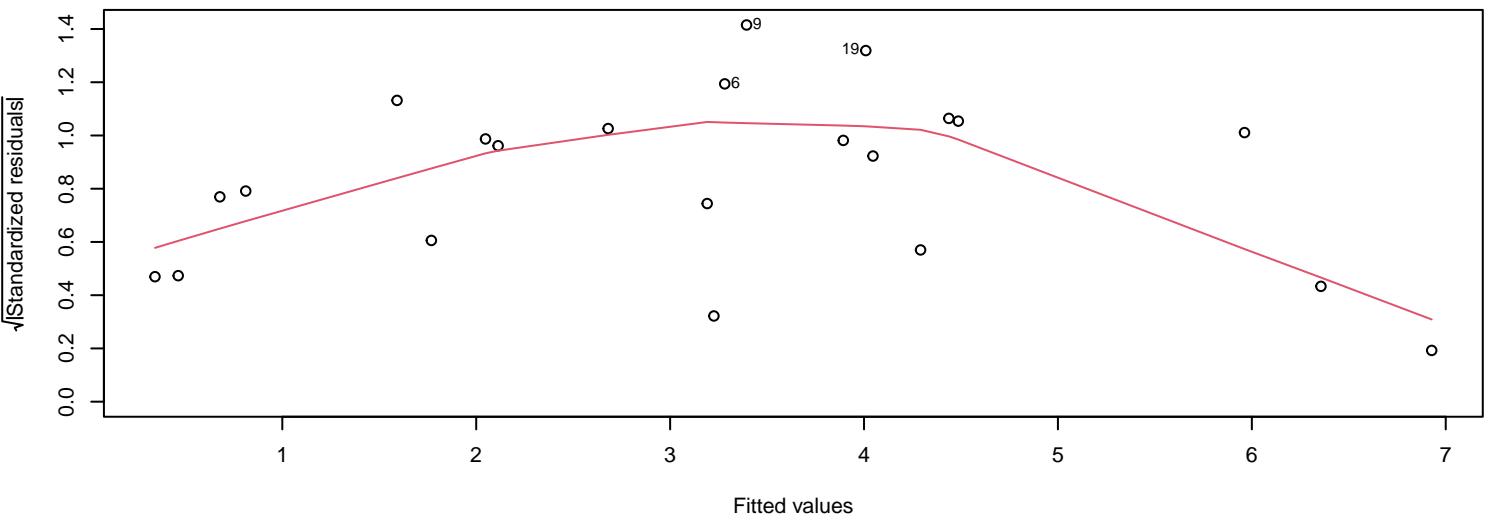
**Residuals vs Fitted: vas\_fatiguecurrent ~ bdi\_sum**  
Residuals vs Fitted



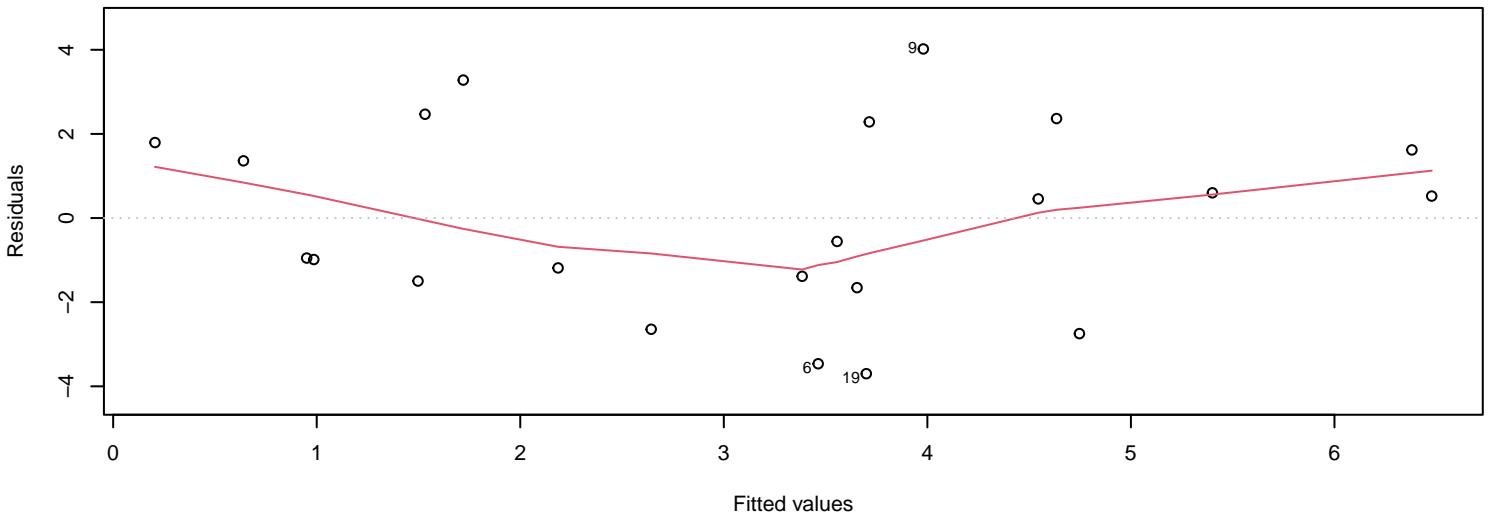
**Normal Q-Q: vas\_fatiguecurrent ~ bdi\_sum**  
Q-Q Residuals



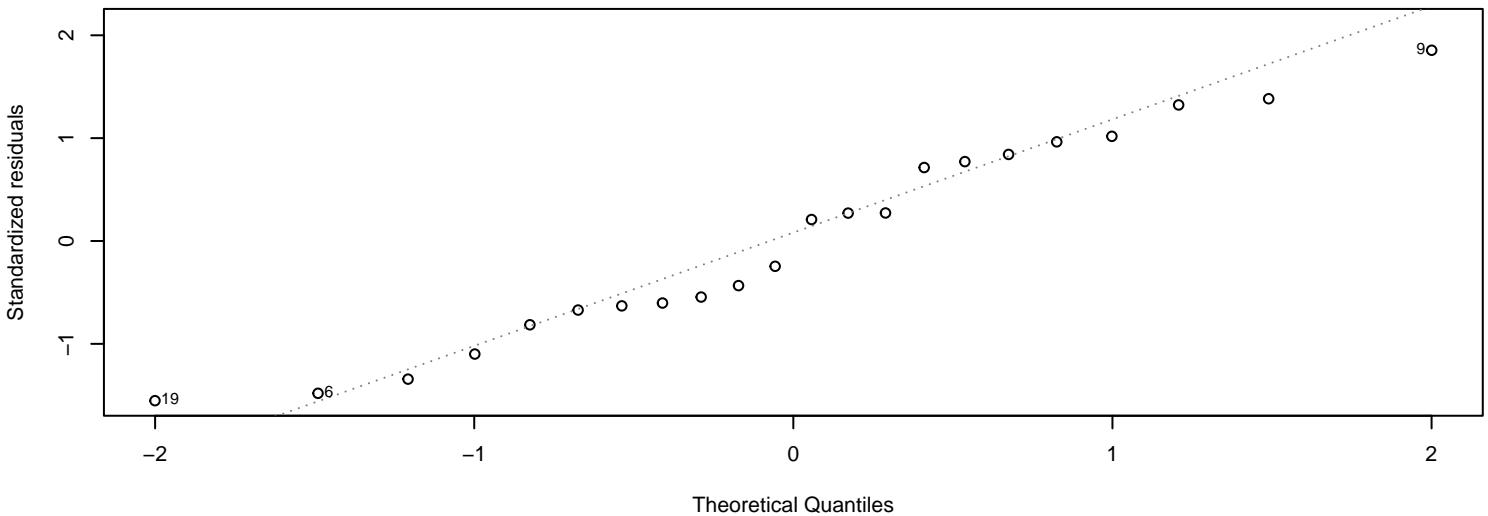
**Scale-Location: vas\_fatiguecurrent ~ bdi\_sum**  
Scale-Location



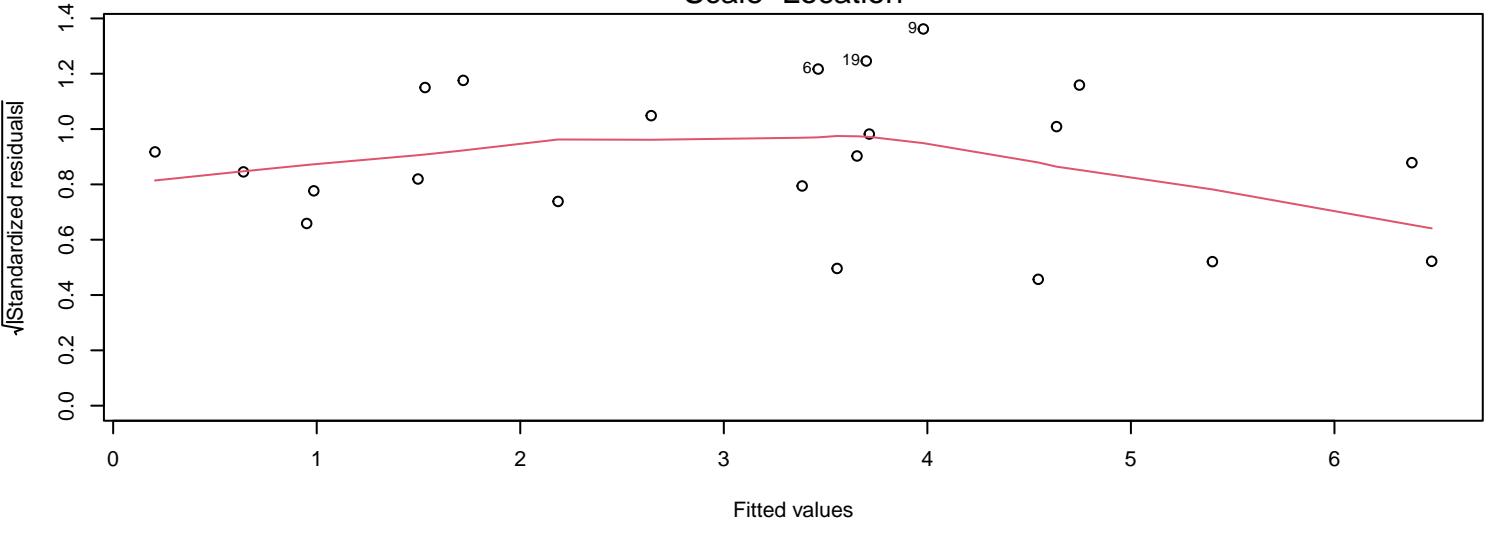
Residuals vs Fitted: vas\_fatiguecurrent ~ mmrc\_score  
Residuals vs Fitted



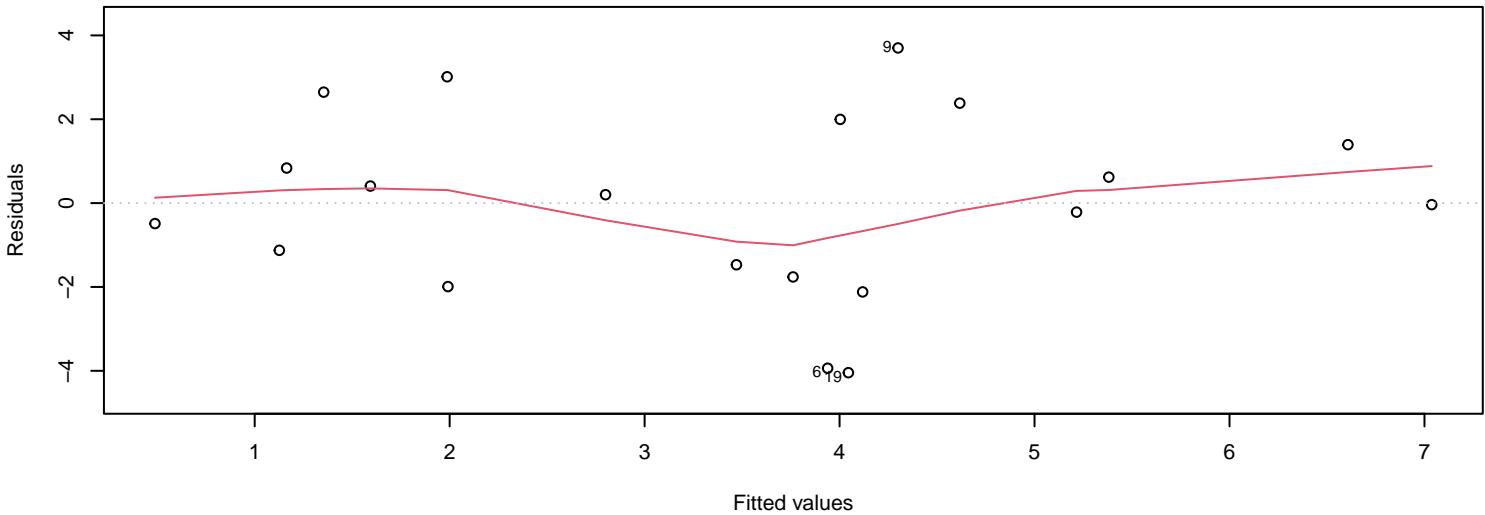
Normal Q-Q: vas\_fatiguecurrent ~ mmrc\_score  
Q-Q Residuals



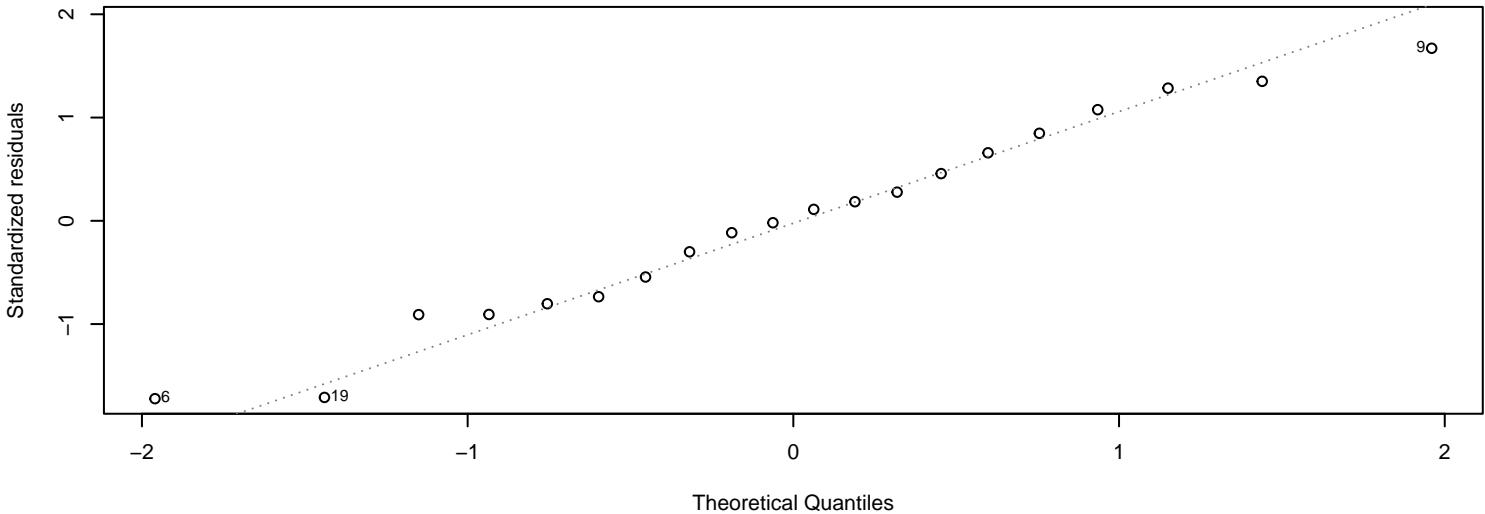
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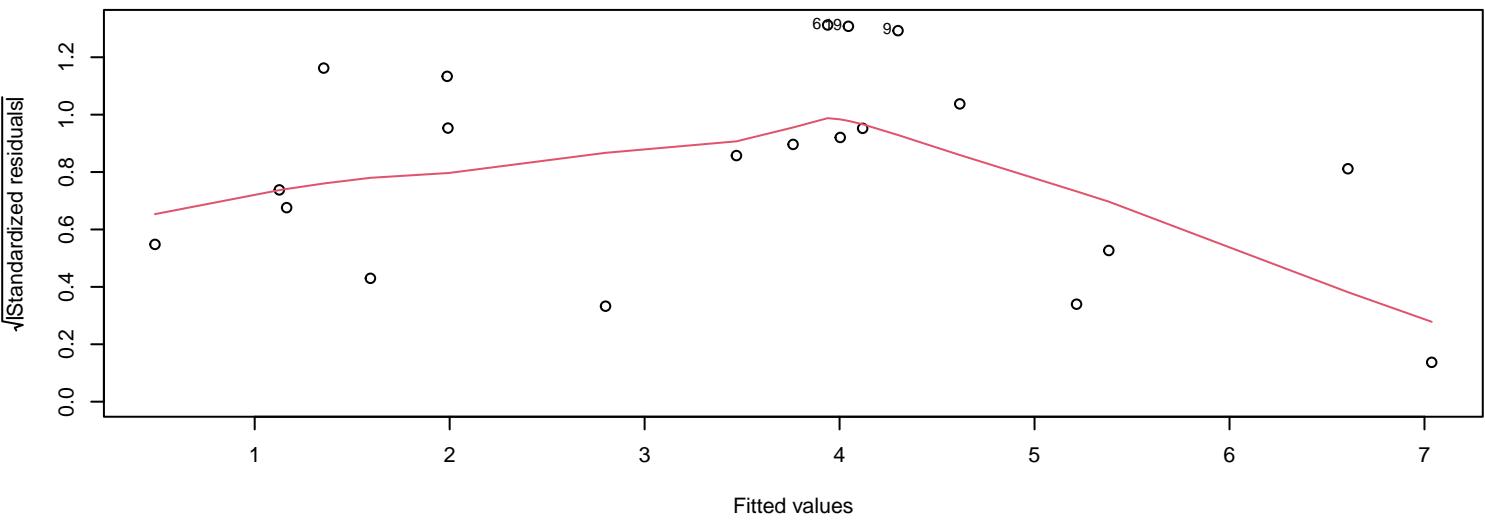
**Residuals vs Fitted: vas\_fatiguecurrent ~ cpet\_ve**  
Residuals vs Fitted



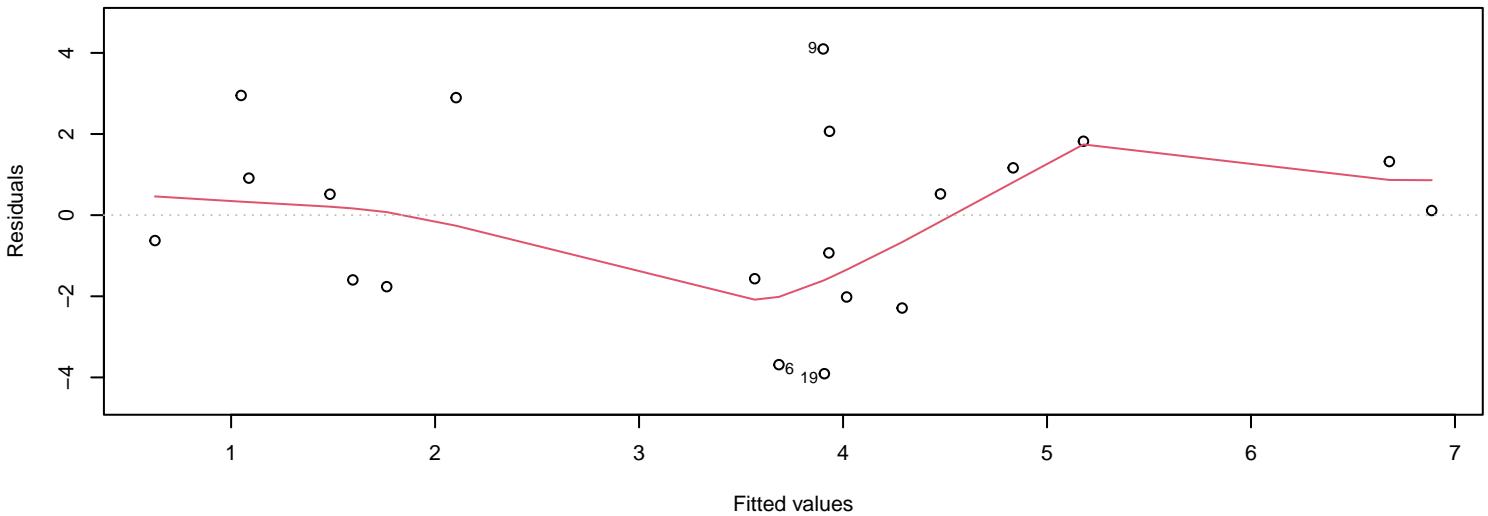
**Normal Q-Q: vas\_fatiguecurrent ~ cpet\_ve**  
Q-Q Residuals



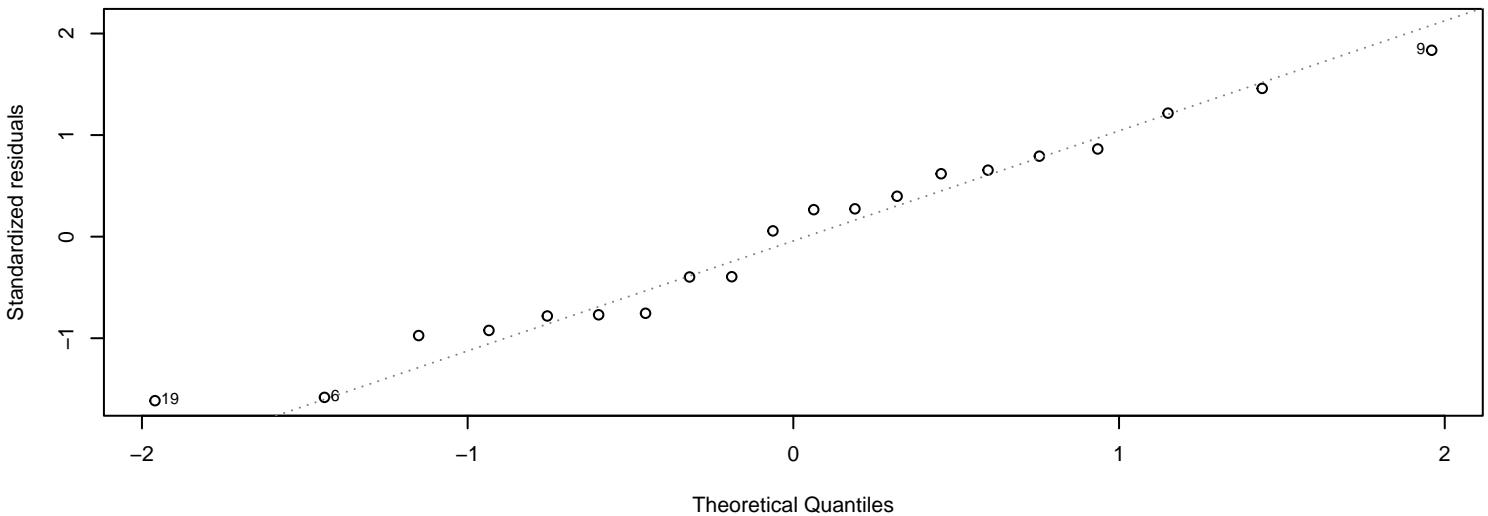
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Scale-Location



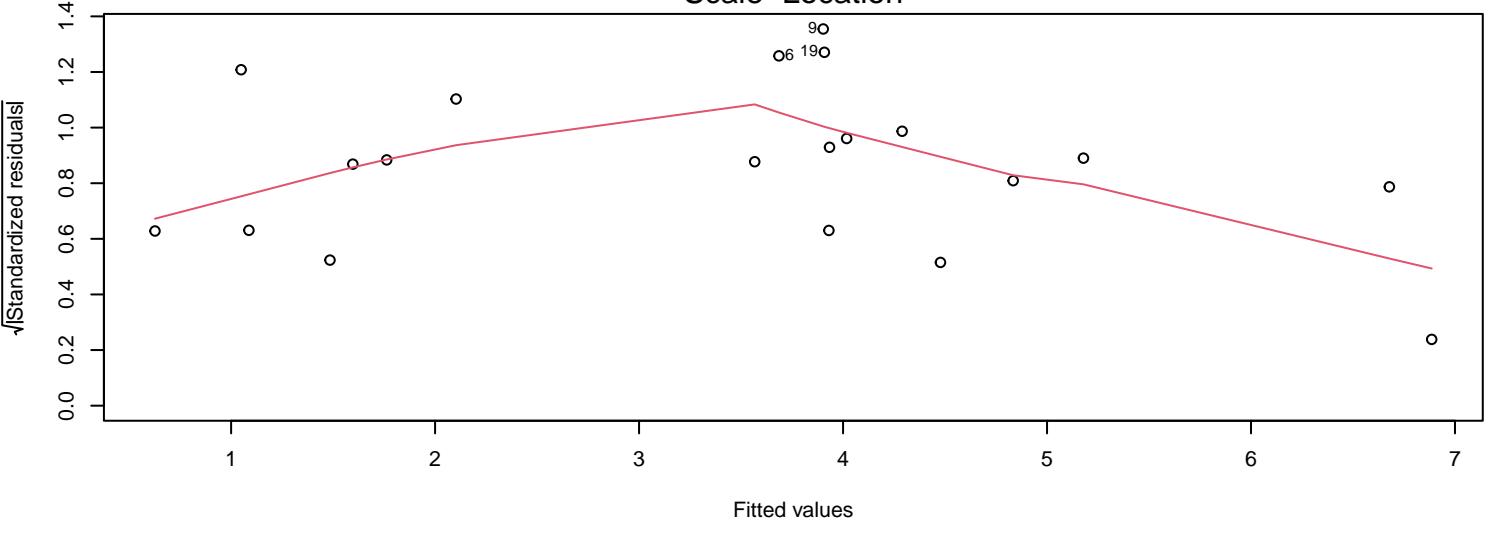
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Residuals vs Fitted



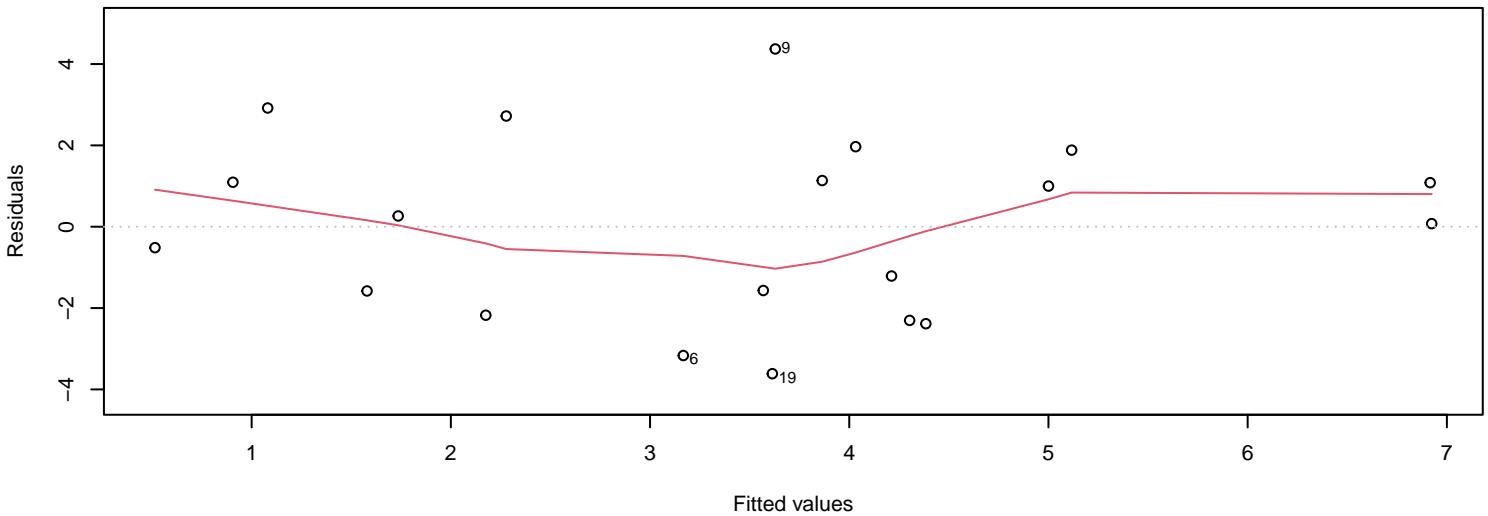
**Normal Q–Q: vas\_fatiguecurrent ~ cpct\_vt\_peak**  
Q–Q Residuals



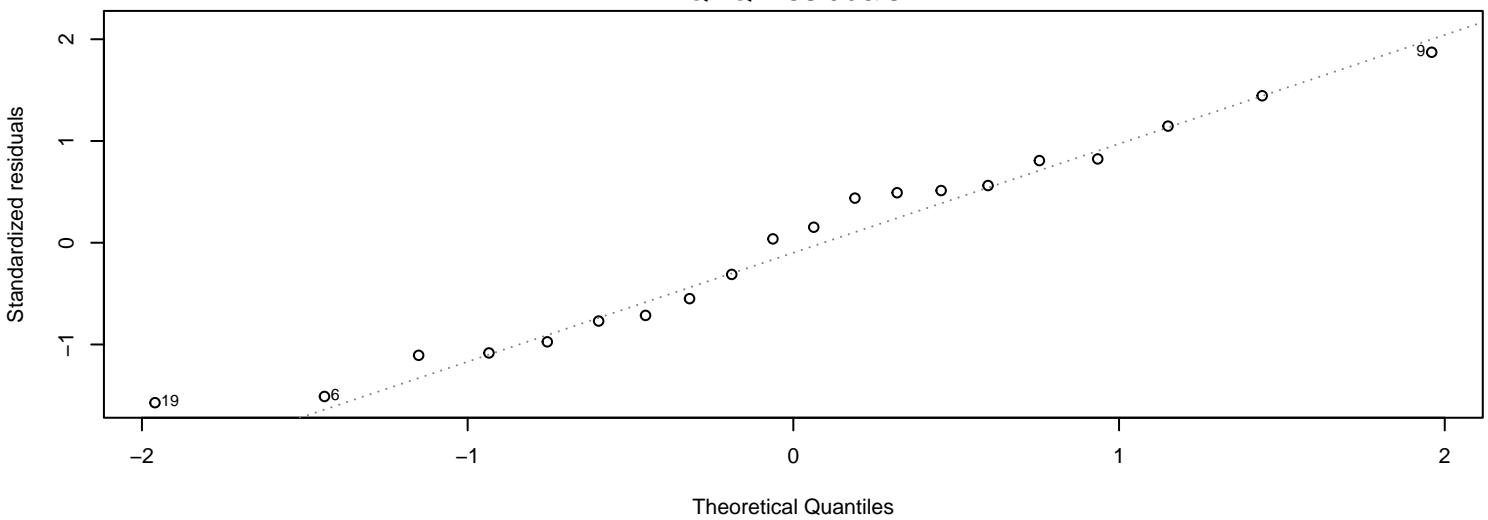
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Scale–Location



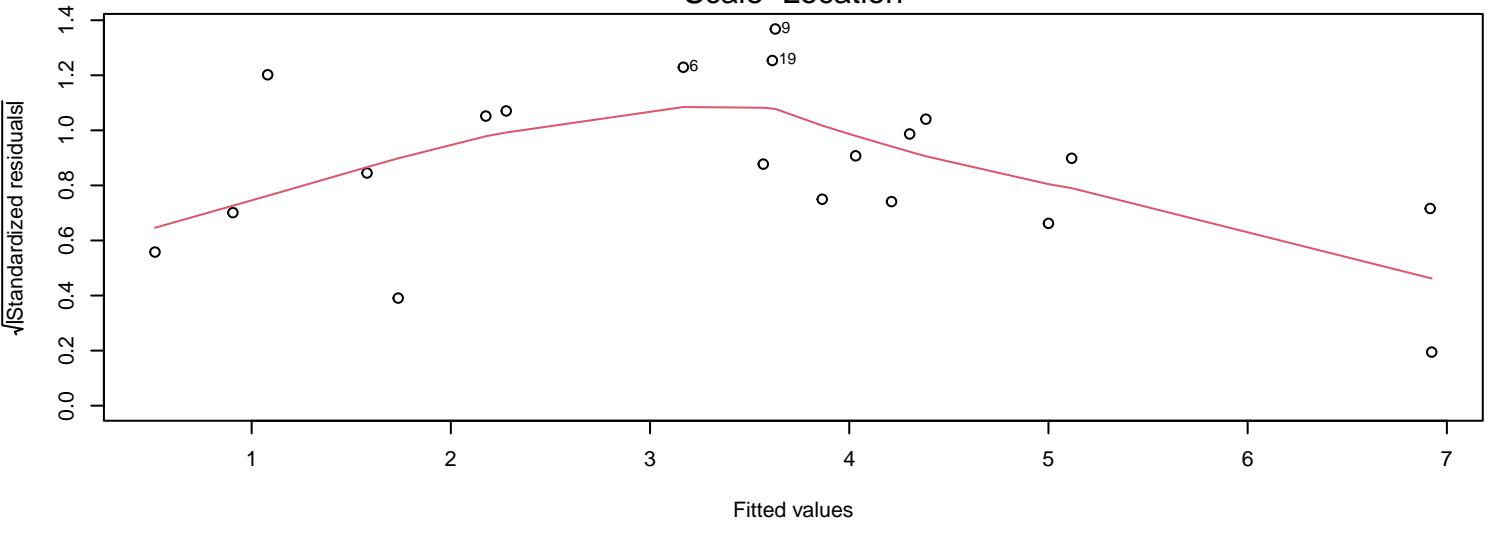
**Residuals vs Fitted: vas\_fatiguecurrent ~ cpel\_o2pulse**  
Residuals vs Fitted



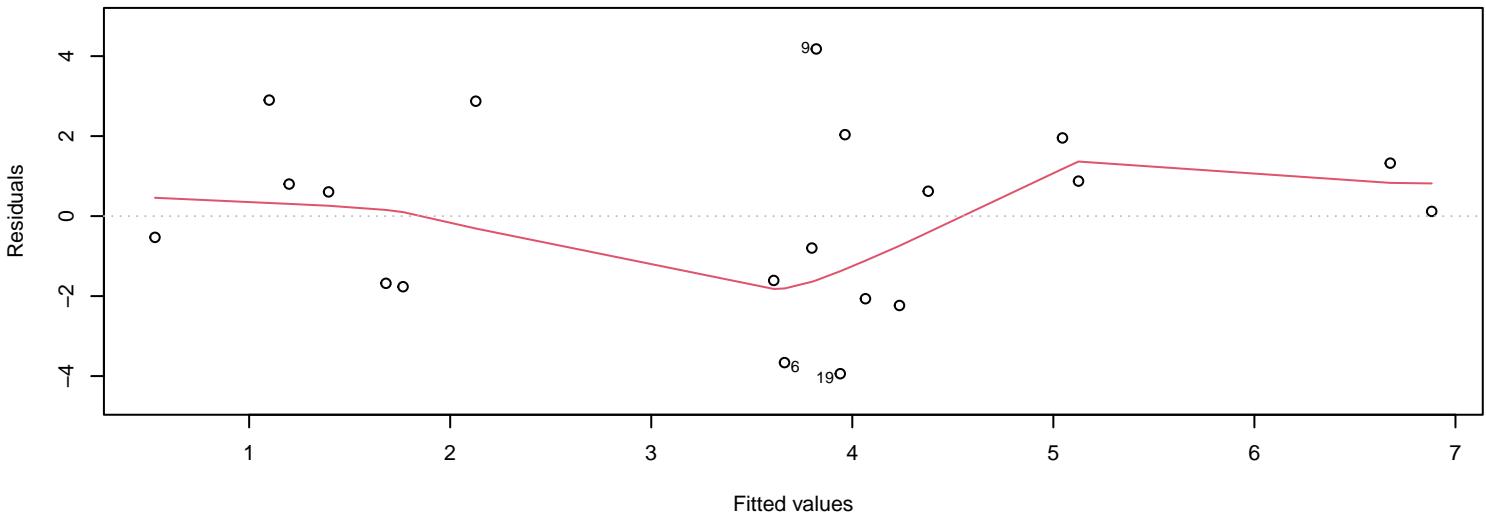
**Normal Q–Q: vas\_fatiguecurrent ~ cpel\_o2pulse**  
Q–Q Residuals



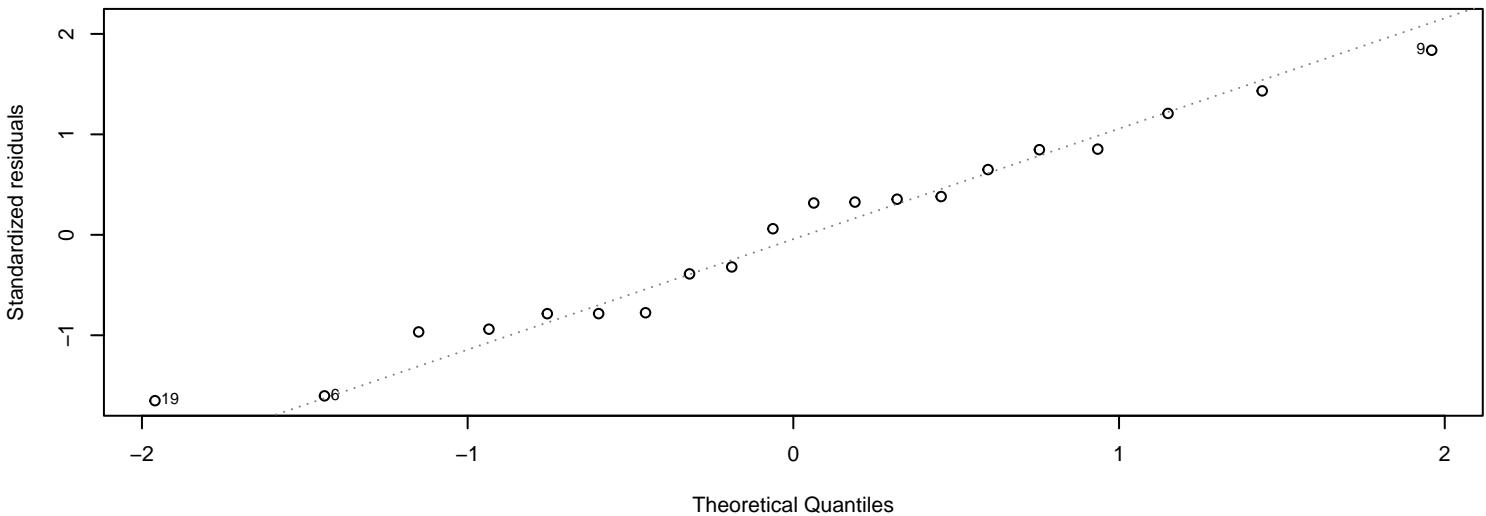
**Scale–Location: vas\_fatiguecurrent ~ cpel\_o2pulse**  
Scale–Location



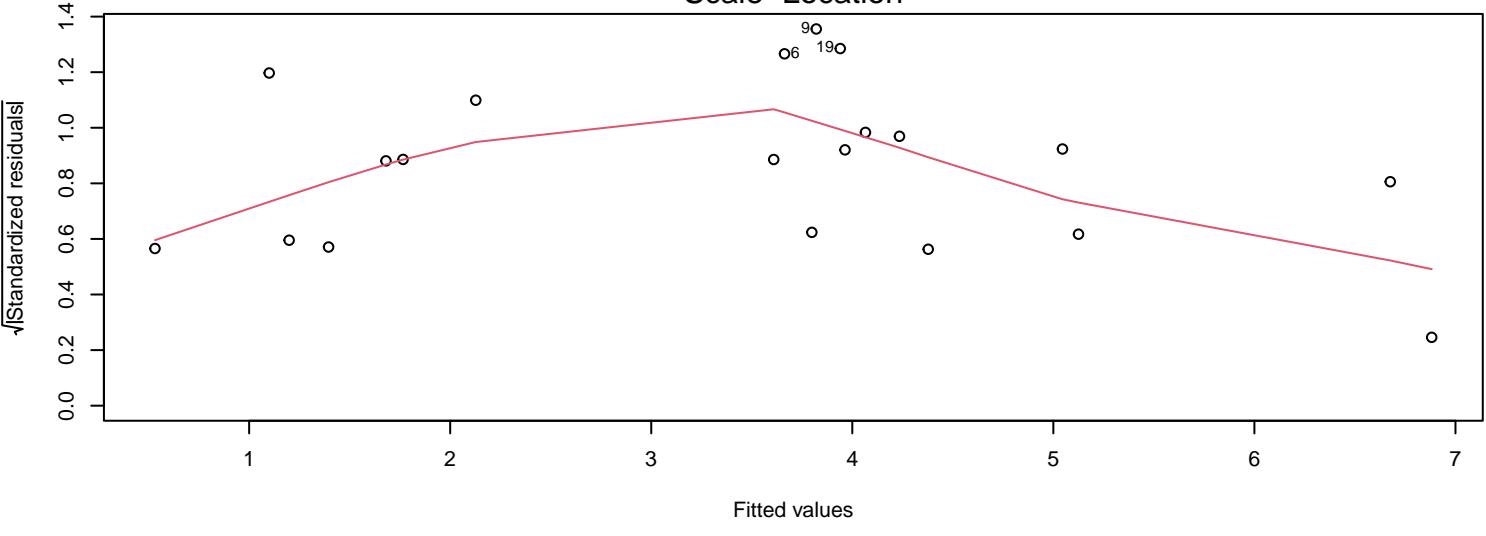
Residuals vs Fitted: vas\_fatiguecurrent ~ cpet\_vo2peak\_absolute  
Residuals vs Fitted



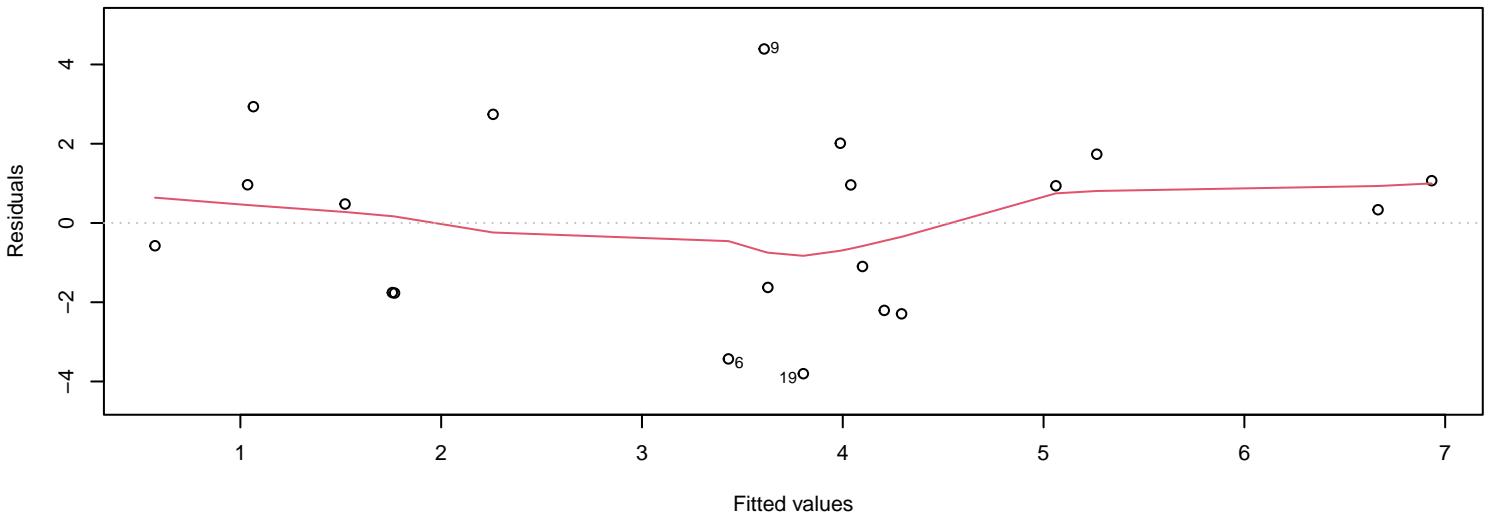
Normal Q-Q: vas\_fatiguecurrent ~ cpet\_vo2peak\_absolute  
Q-Q Residuals



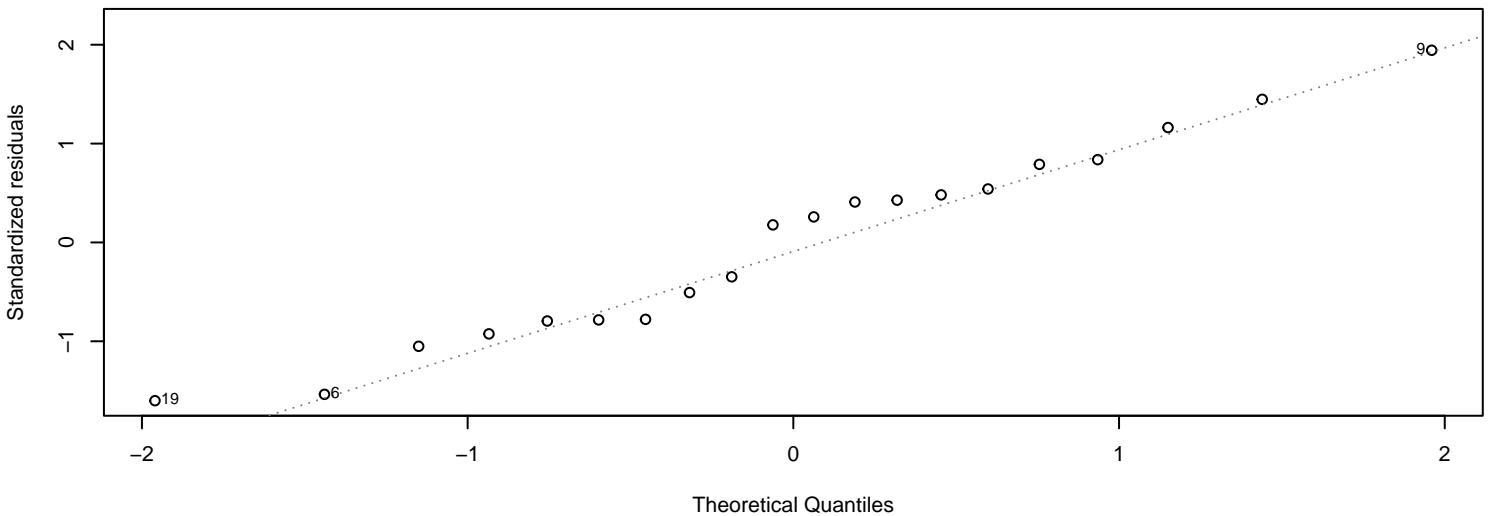
Scale-Location: vas\_fatiguecurrent ~ cpet\_vo2peak\_absolute  
Scale-Location



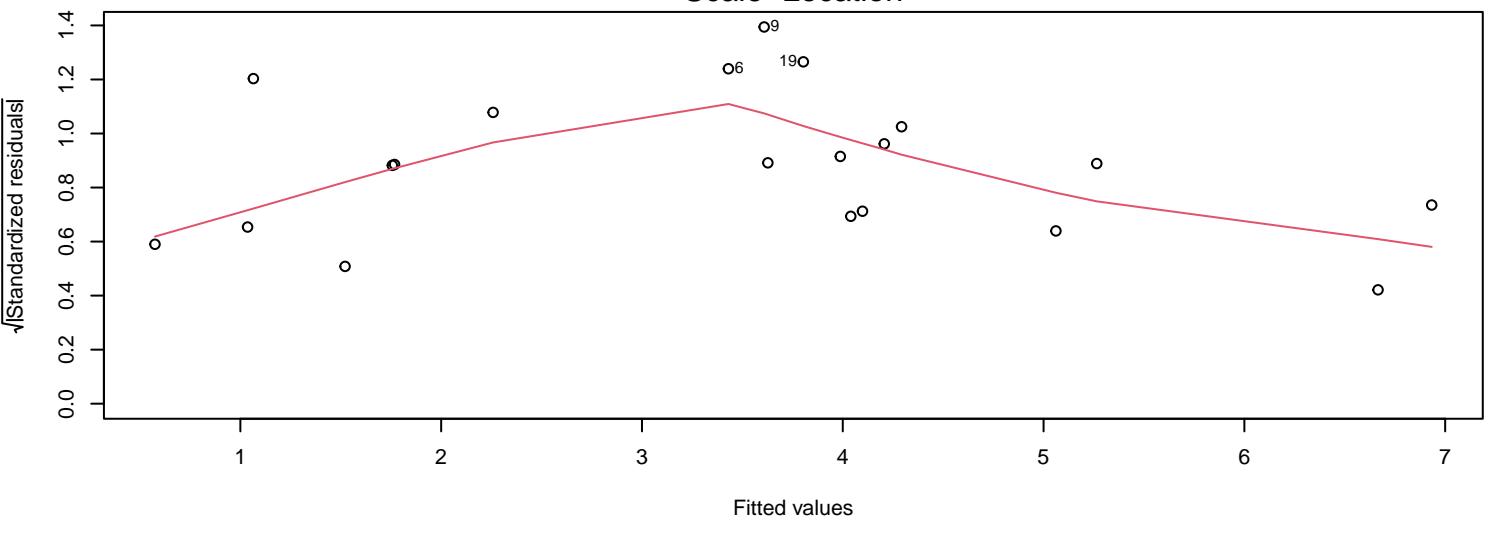
Residuals vs Fitted: vas\_fatiguecurrent ~ cpet\_vo2peak\_relative  
Residuals vs Fitted



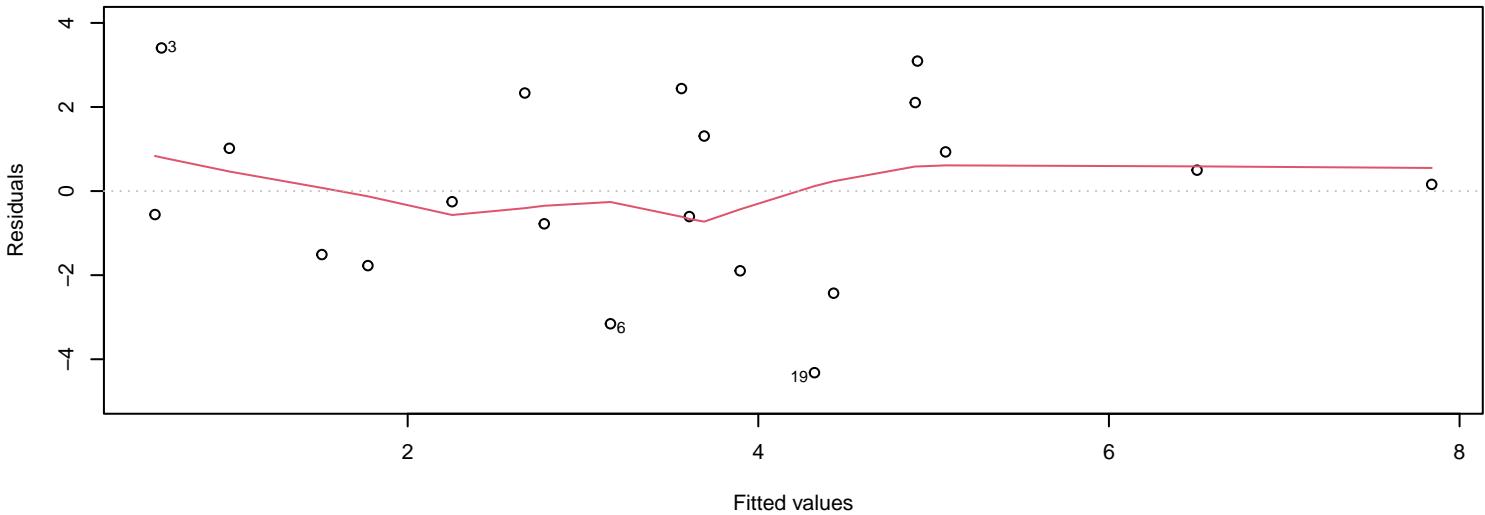
Normal Q-Q: vas\_fatiguecurrent ~ cpet\_vo2peak\_relative  
Q-Q Residuals



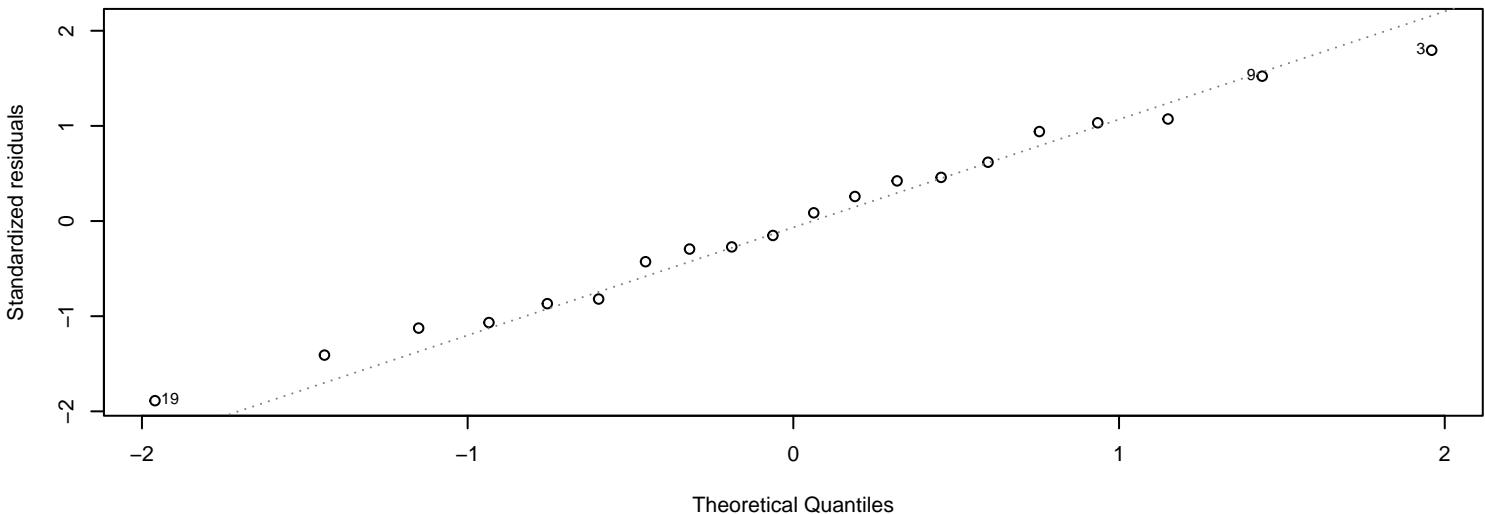
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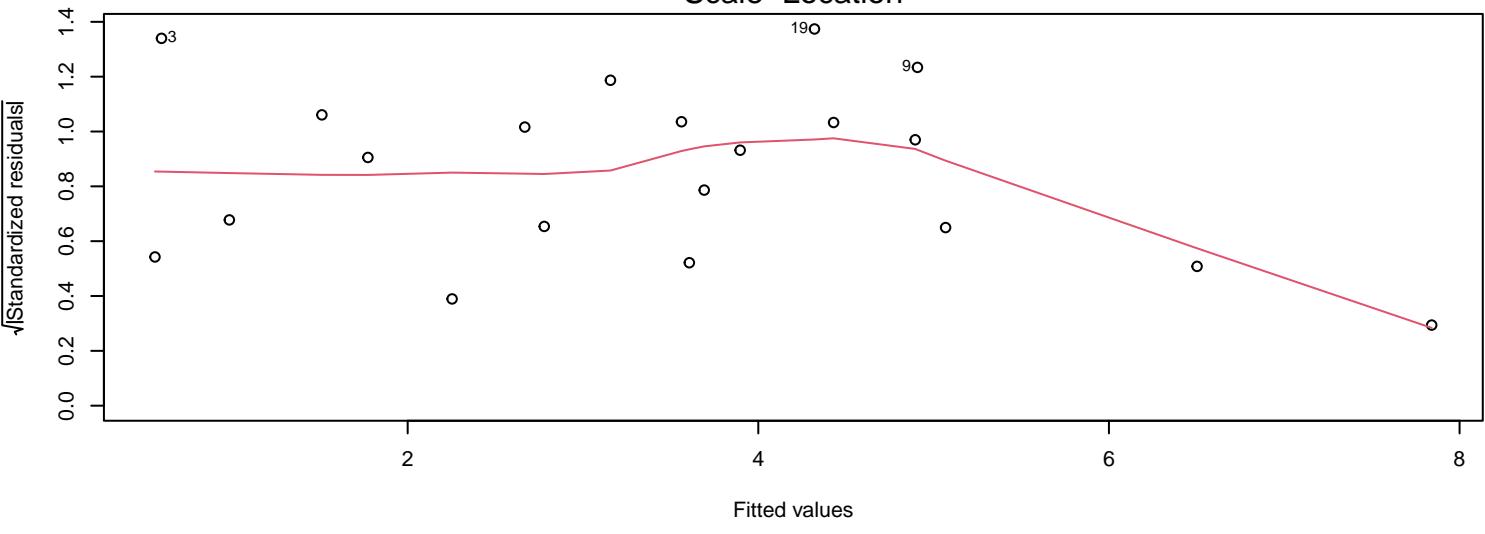
**Residuals vs Fitted: vas\_fatiguecurrent ~ fmd\_percent**  
Residuals vs Fitted



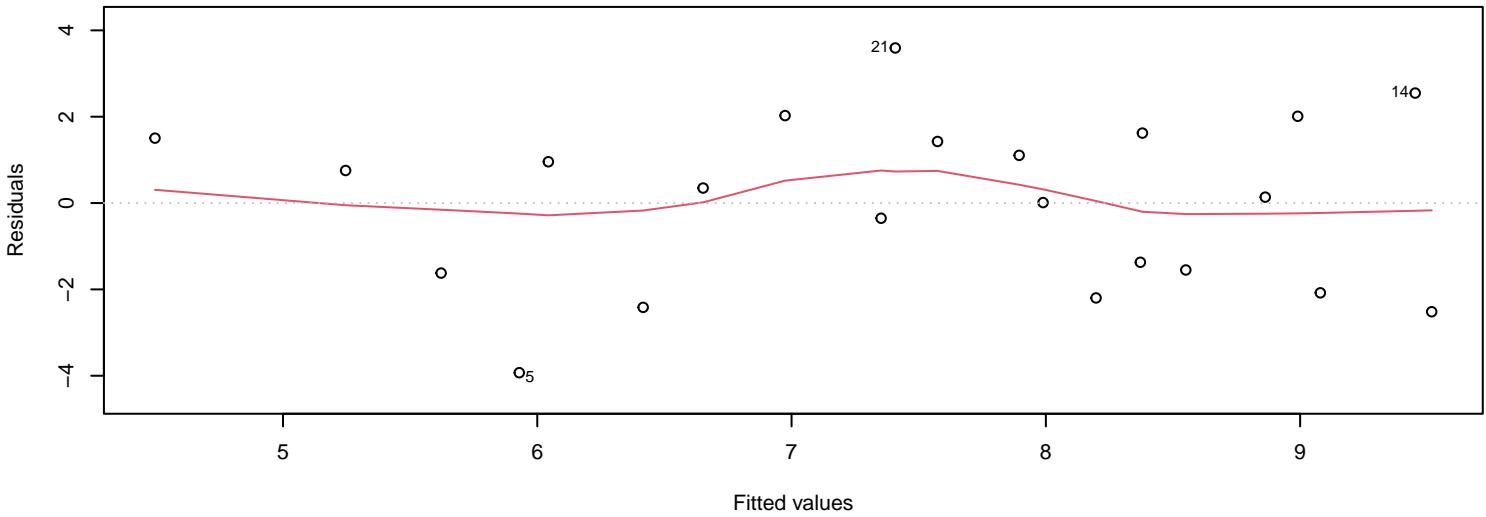
**Normal Q–Q: vas\_fatiguecurrent ~ fmd\_percent**  
Q–Q Residuals



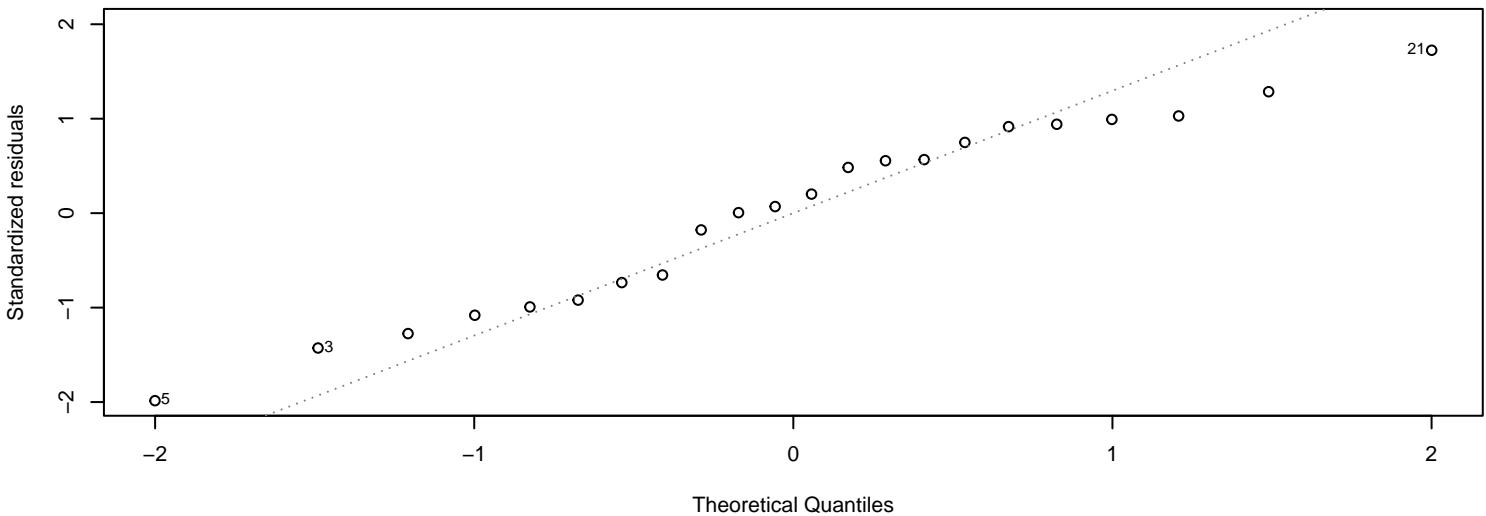
**Scale–Location: vas\_fatiguecurrent ~ fmd\_percent**  
Scale–Location



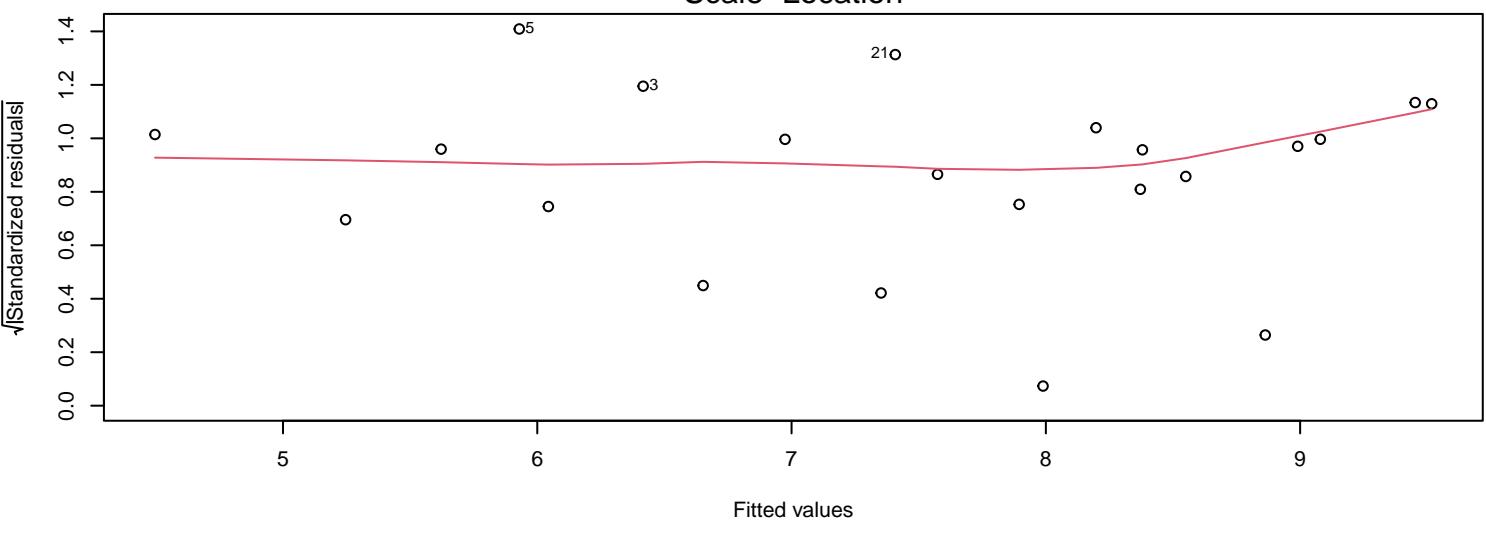
**Residuals vs Fitted: bdi\_sum ~ mip\_pre\_max**  
Residuals vs Fitted



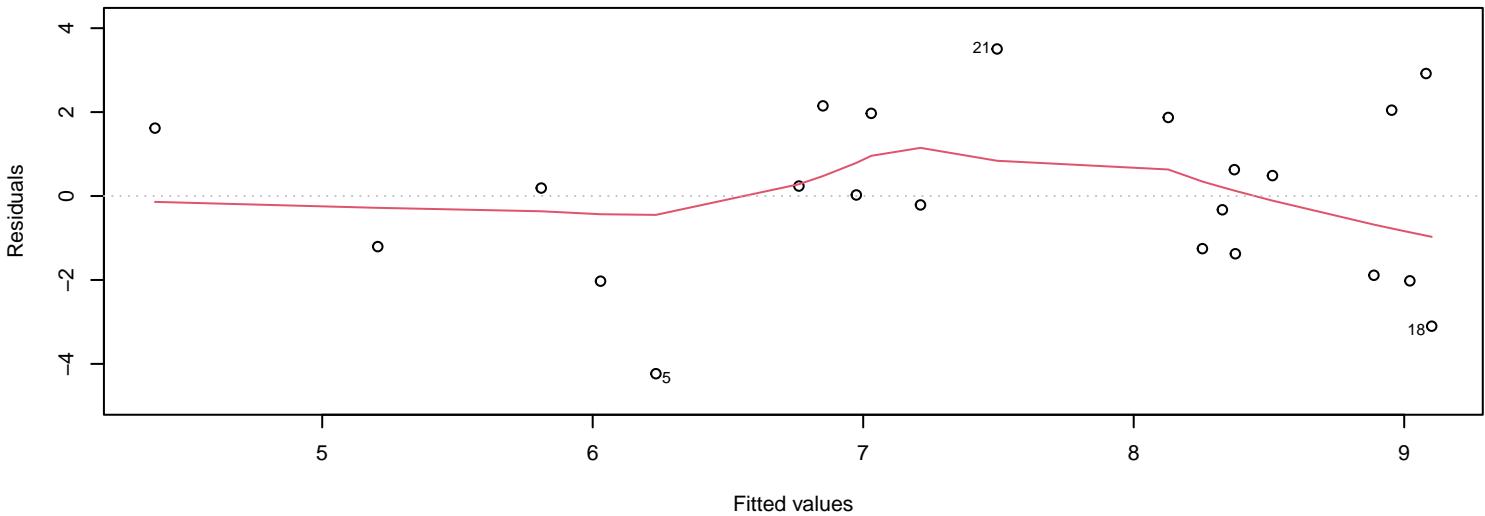
**Normal Q-Q: bdi\_sum ~ mip\_pre\_max**  
Q-Q Residuals



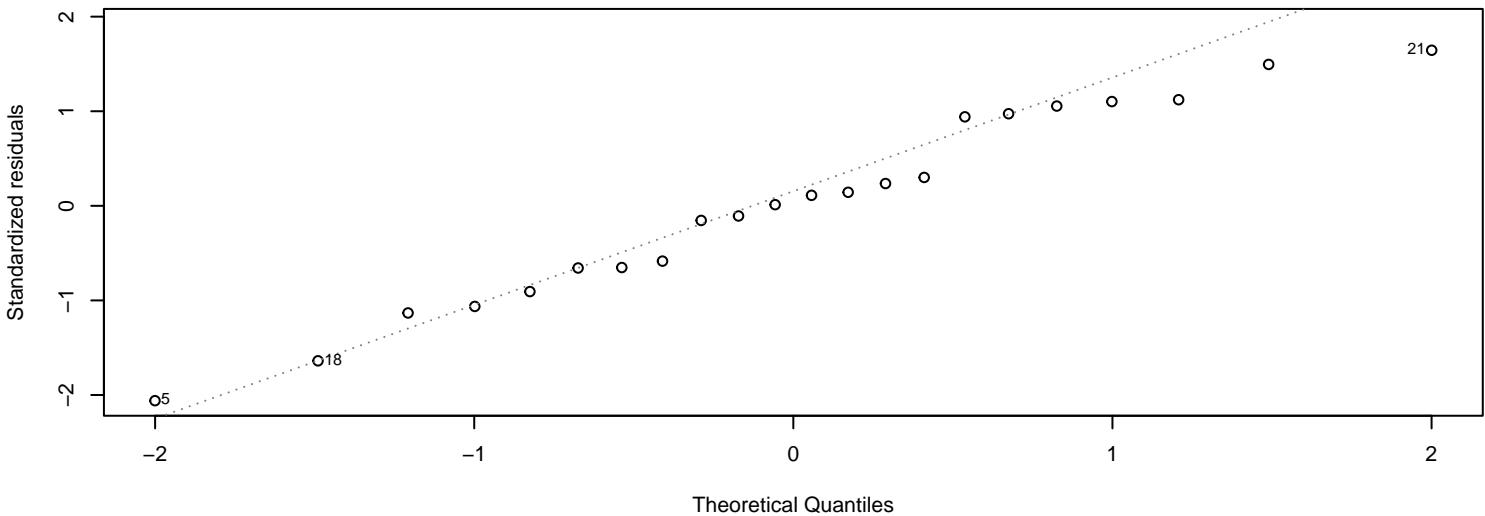
**Scale-Location: bdi\_sum ~ mip\_pre\_max**  
Scale-Location



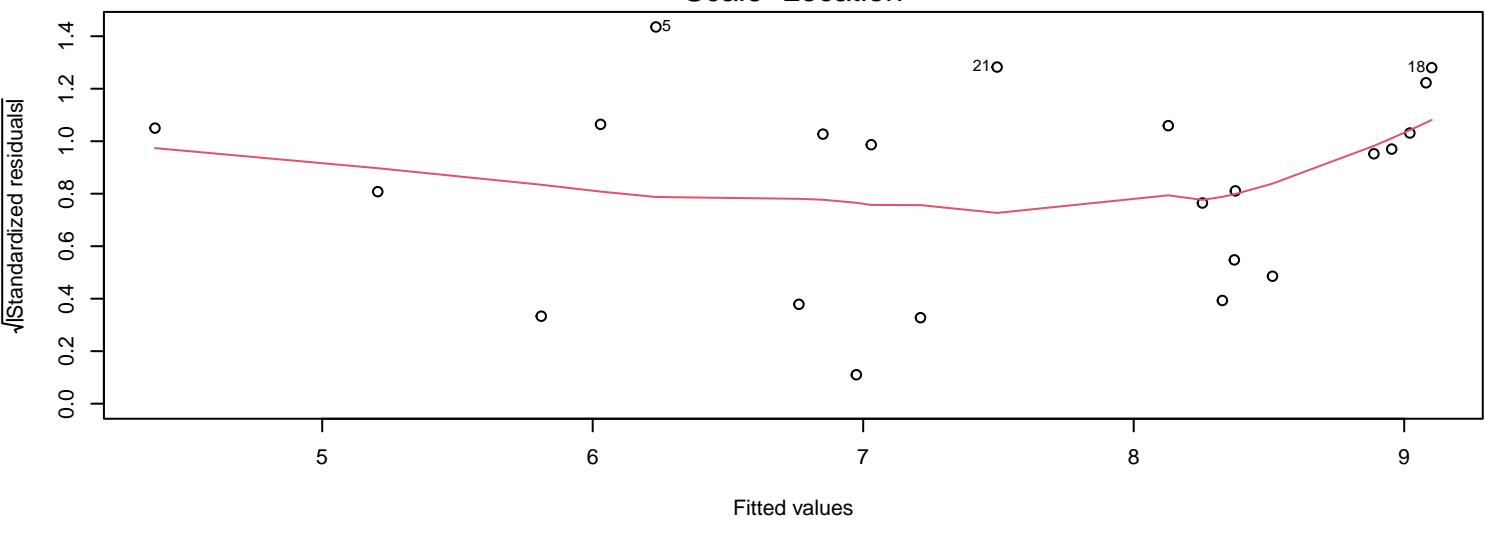
**Residuals vs Fitted: bdi\_sum ~ smip\_pre\_max**  
Residuals vs Fitted



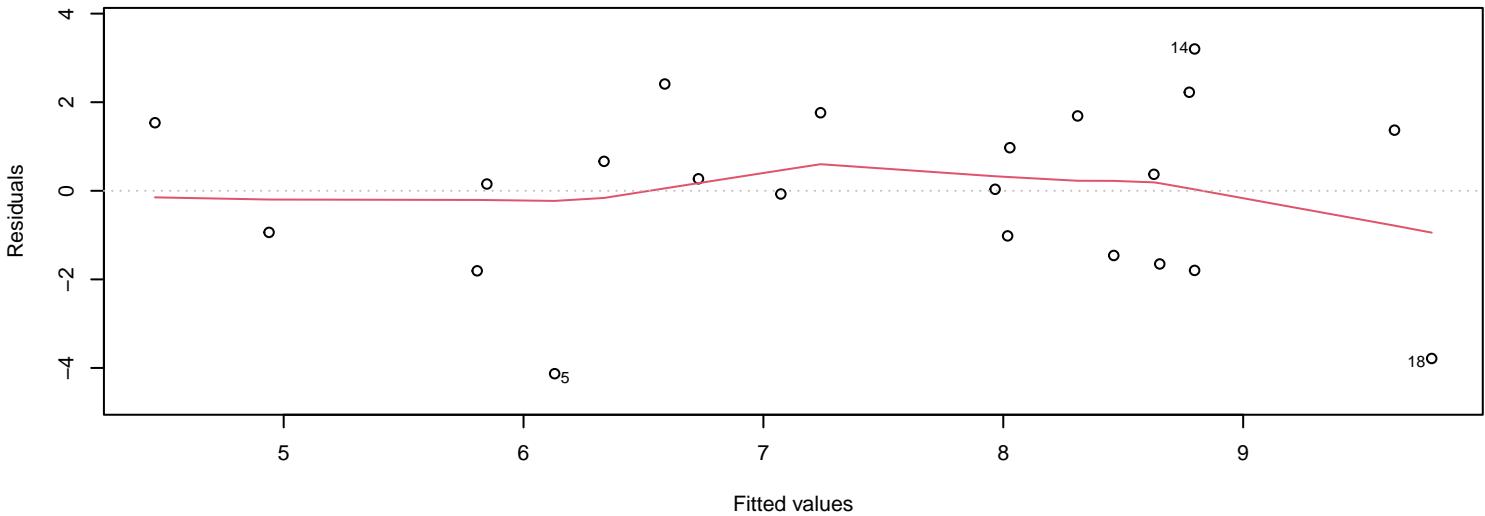
**Normal Q–Q: bdi\_sum ~ smip\_pre\_max**  
Q–Q Residuals



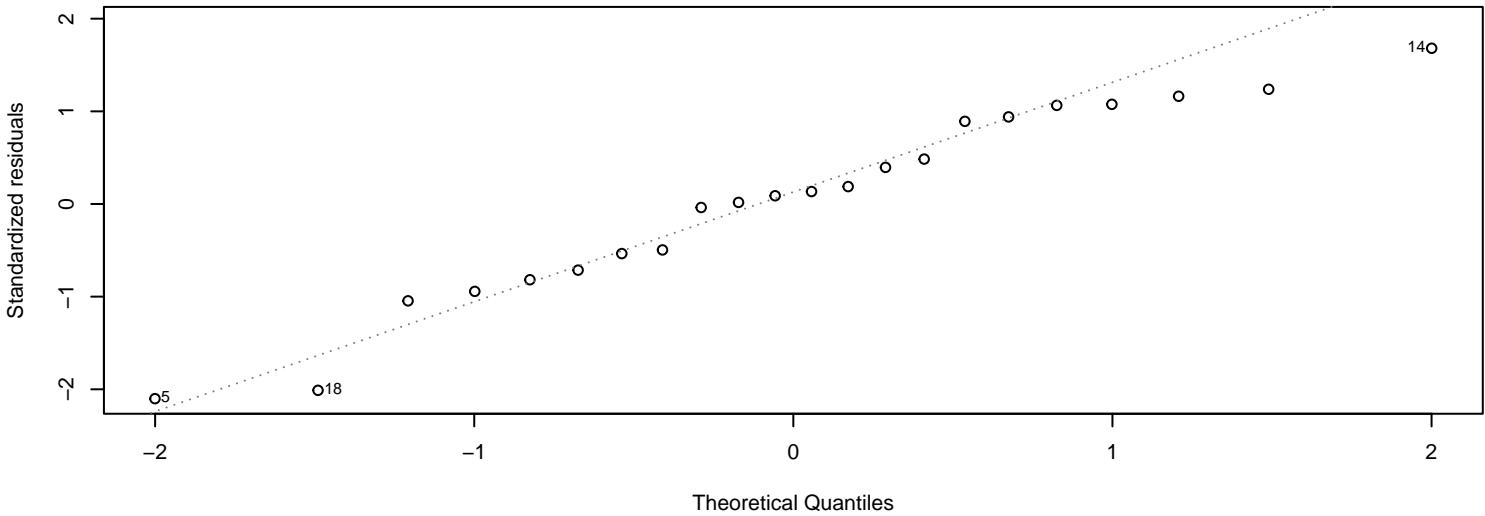
**Scale–Location: bdi\_sum ~ smip\_pre\_max**  
Scale–Location



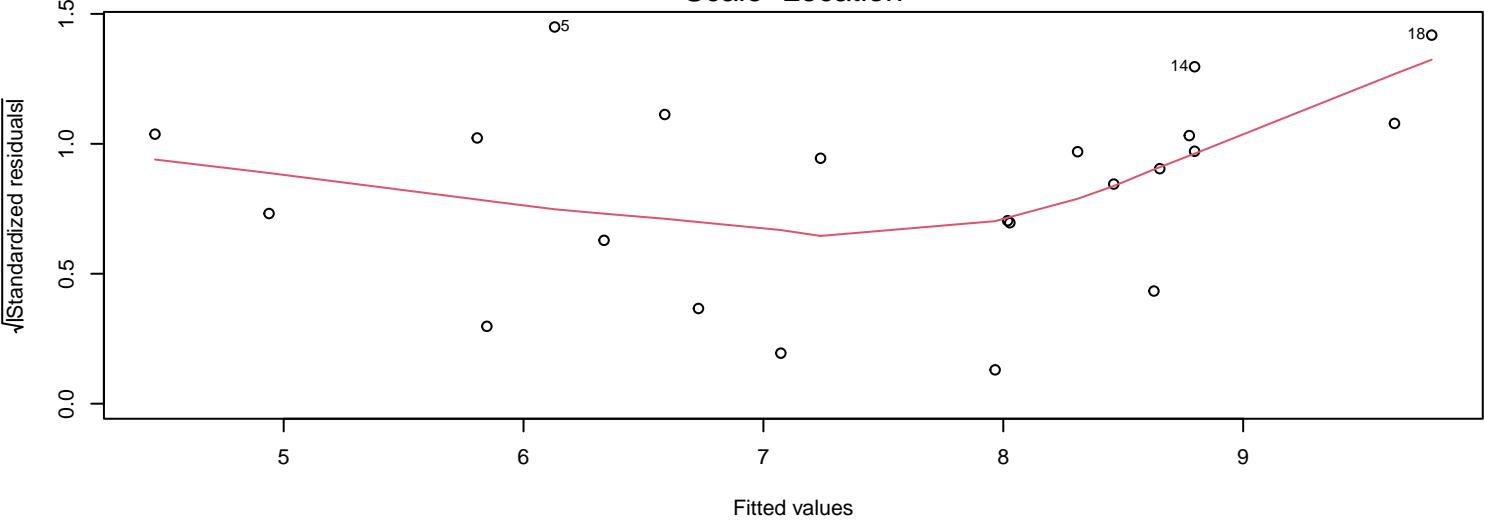
**Residuals vs Fitted: bdi\_sum ~ fit\_pre\_max**  
Residuals vs Fitted



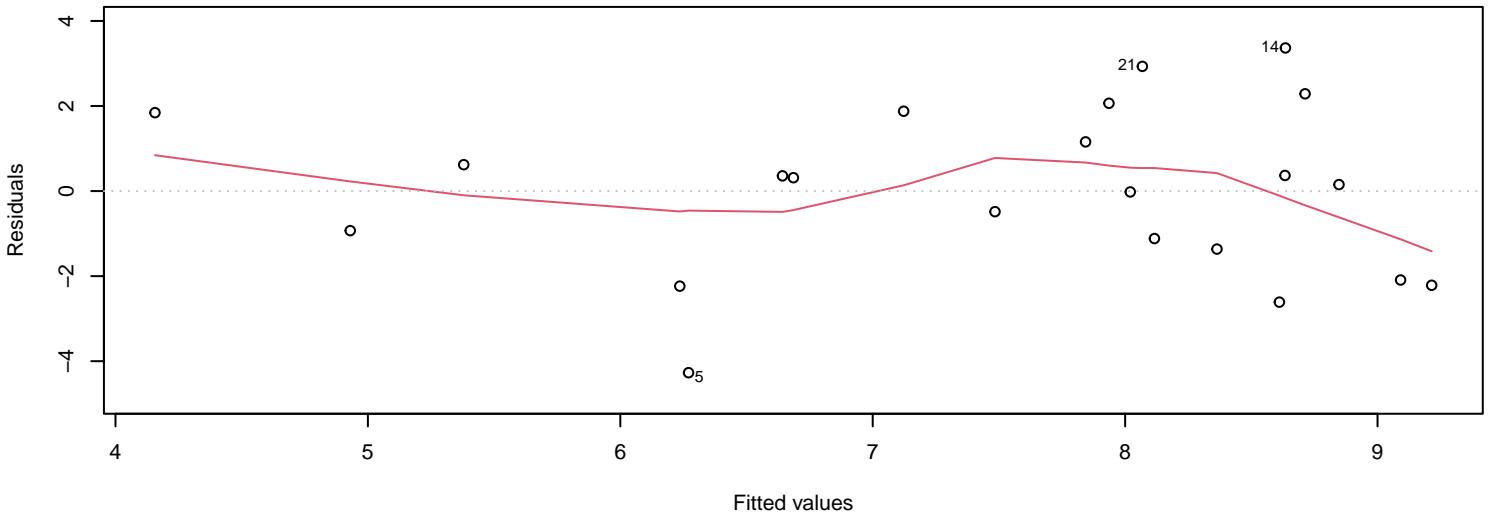
**Normal Q-Q: bdi\_sum ~ fit\_pre\_max**  
Q-Q Residuals



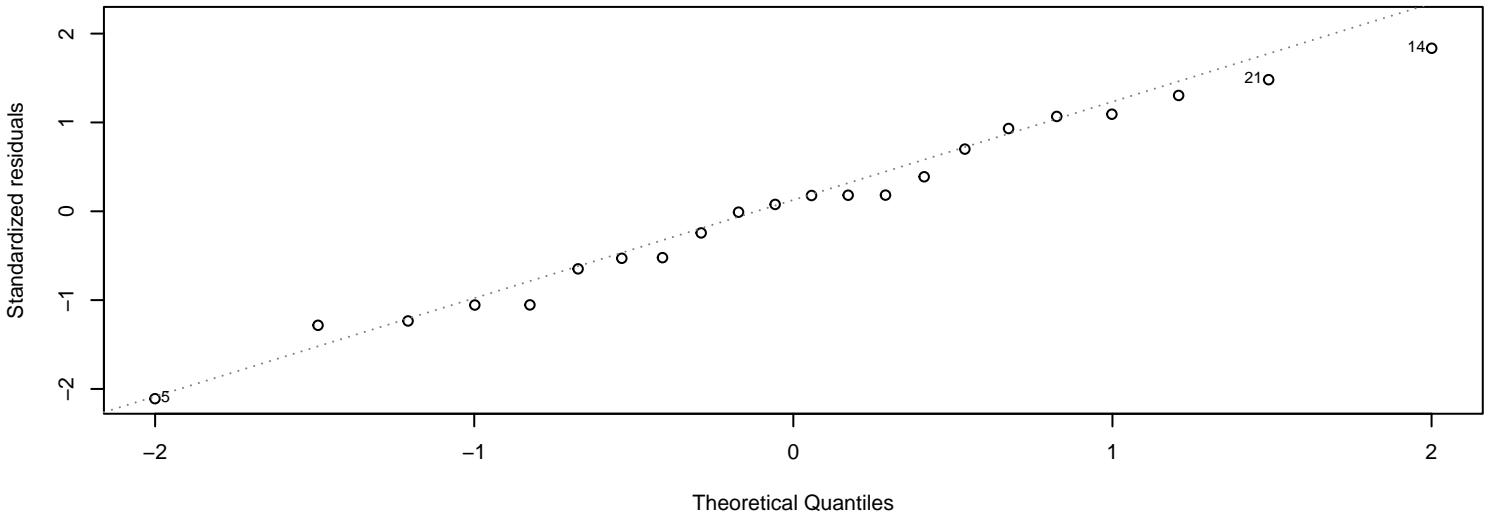
**Scale-Location: bdi\_sum ~ fit\_pre\_max**  
Scale-Location



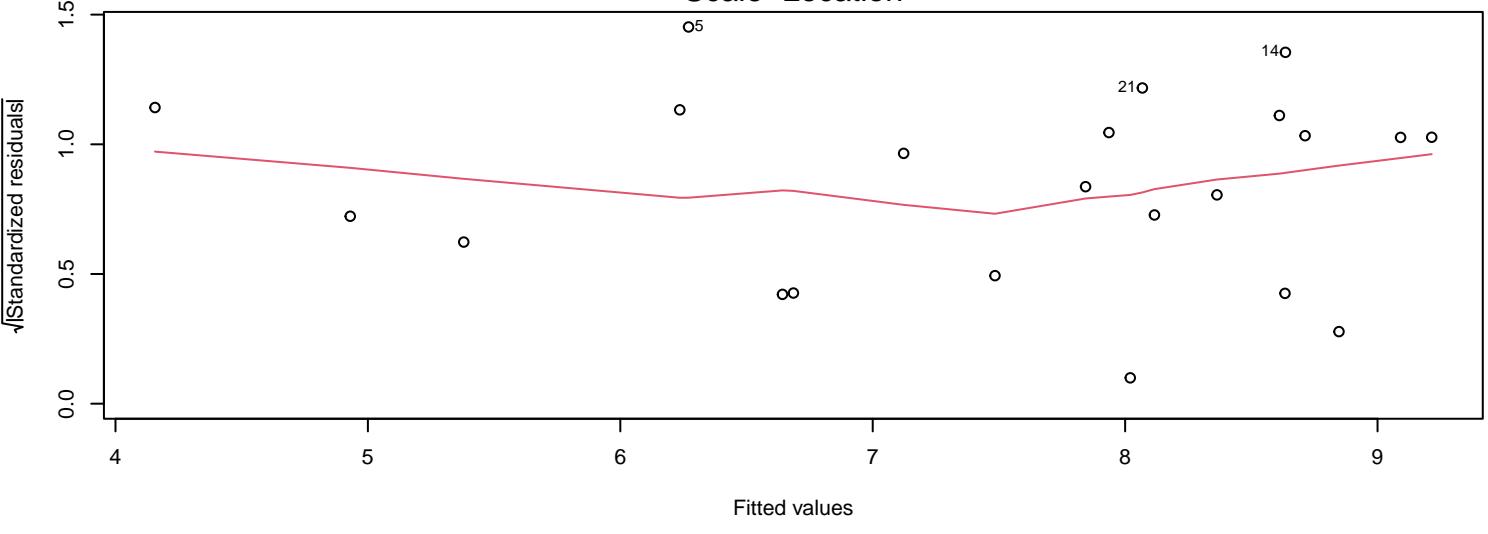
**Residuals vs Fitted: bdi\_sum ~ pif\_pre\_max**  
Residuals vs Fitted



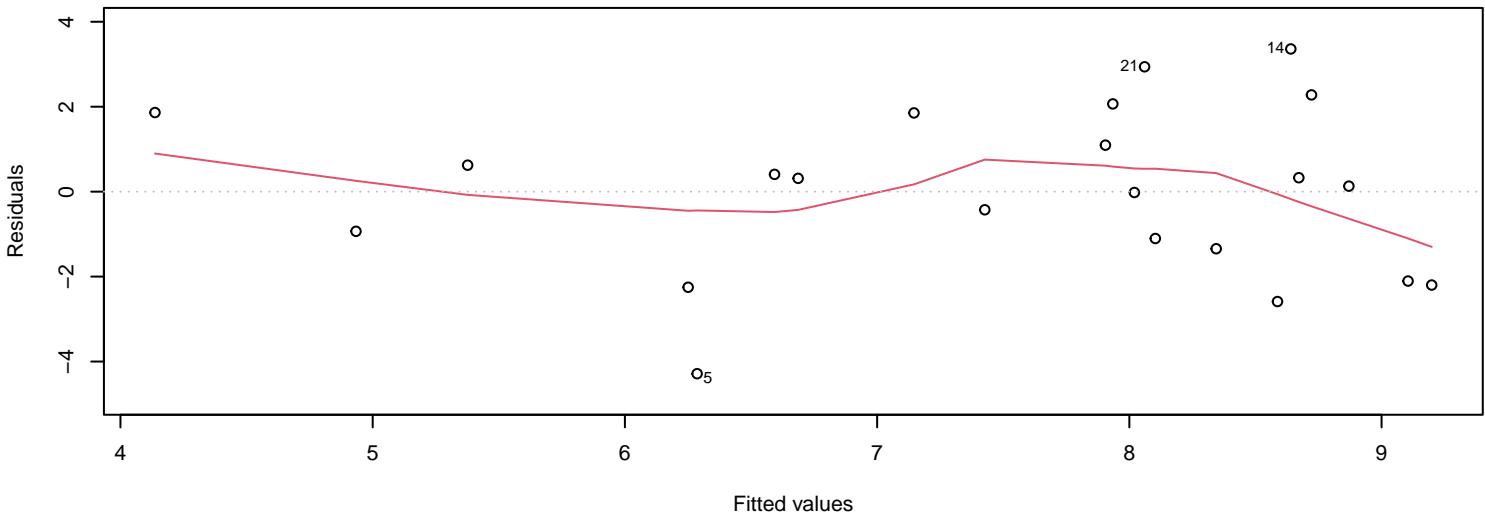
**Normal Q-Q: bdi\_sum ~ pif\_pre\_max**  
Q-Q Residuals



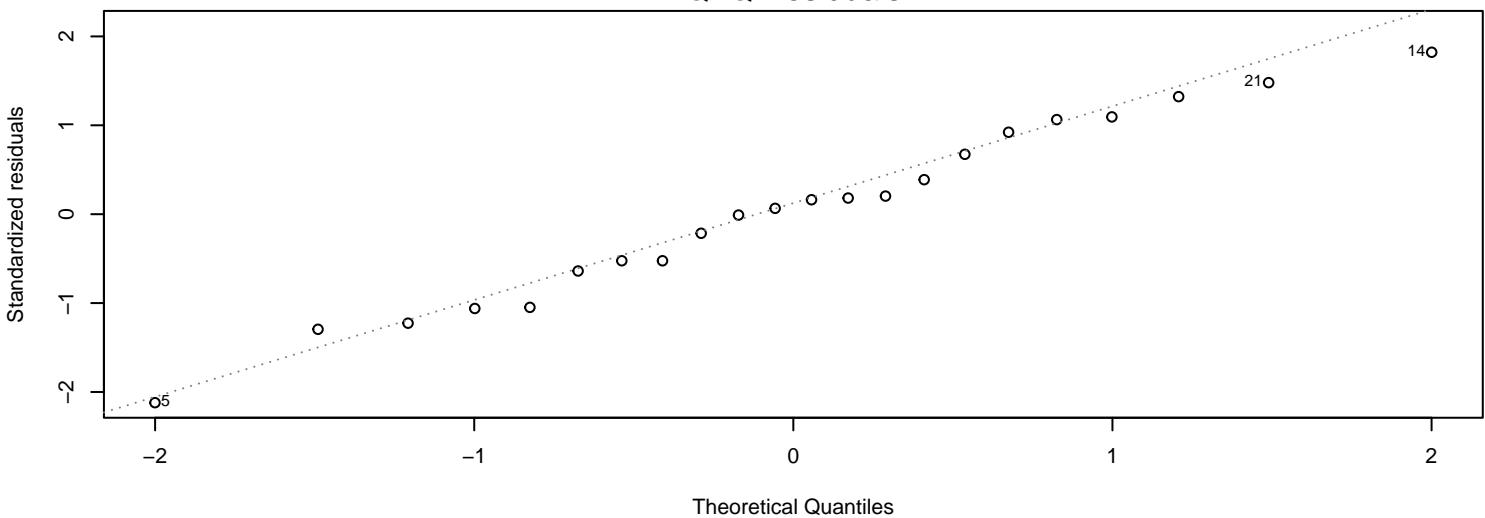
**Scale–Location: bdi\_sum ~ pif\_pre\_max**  
Scale–Location



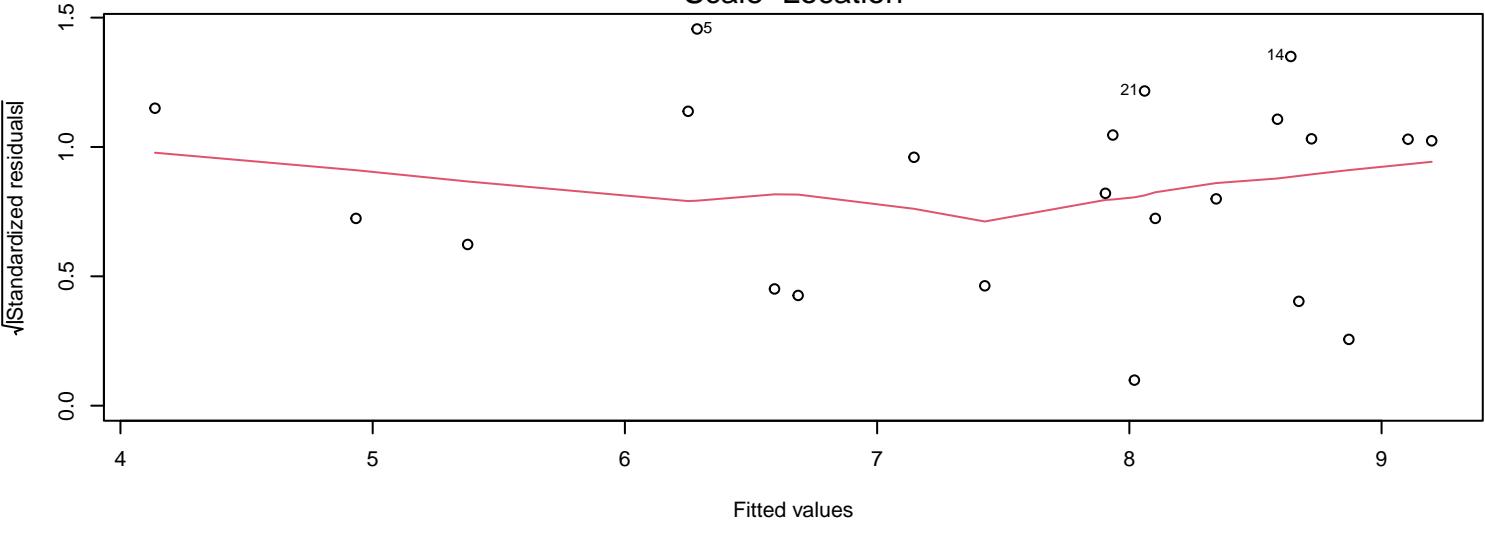
**Residuals vs Fitted: bdi\_sum ~ sindex\_pre\_max**  
Residuals vs Fitted



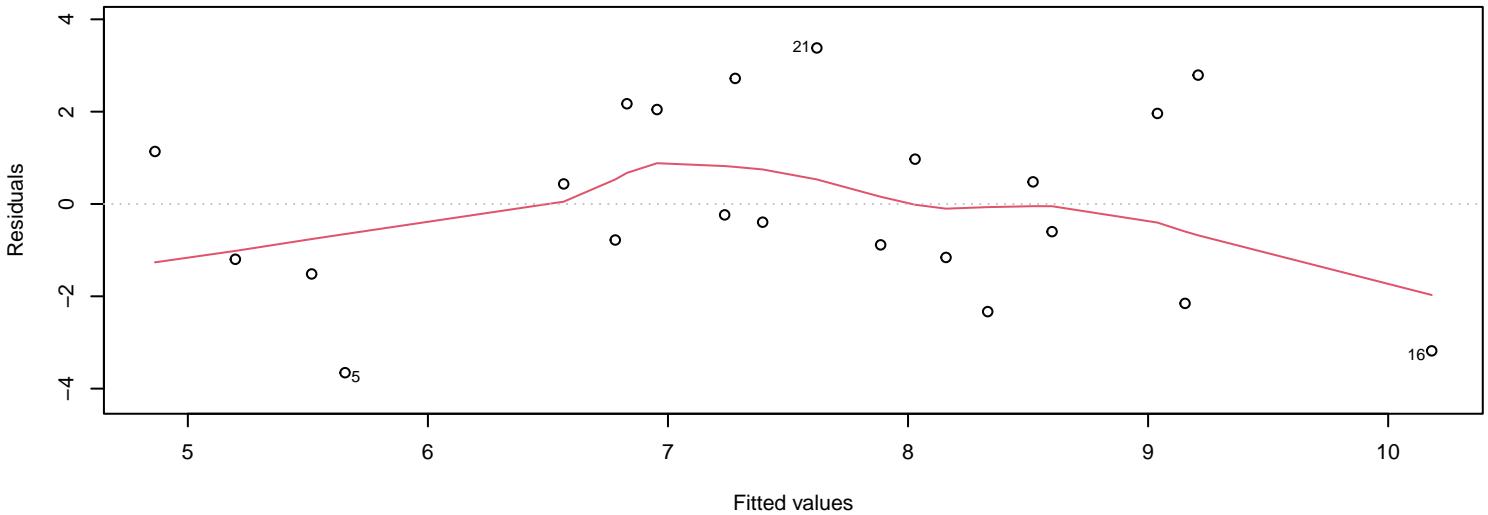
**Normal Q–Q: bdi\_sum ~ sindex\_pre\_max**  
Q–Q Residuals



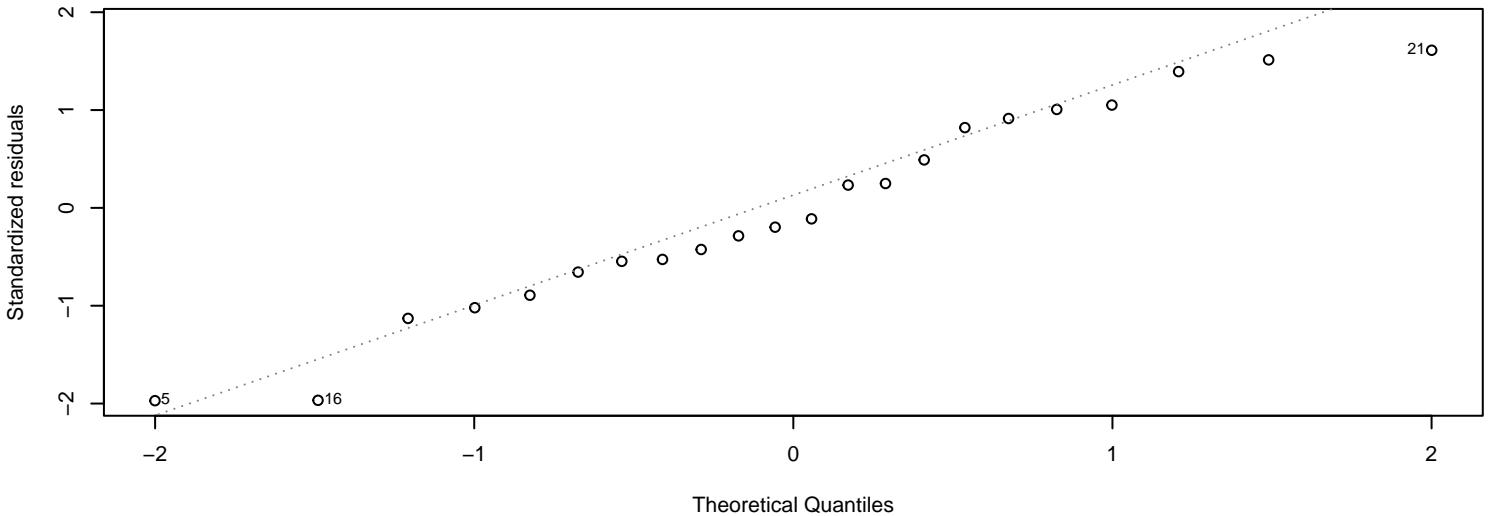
**Scale–Location: bdi\_sum ~ sindex\_pre\_max**  
Scale–Location



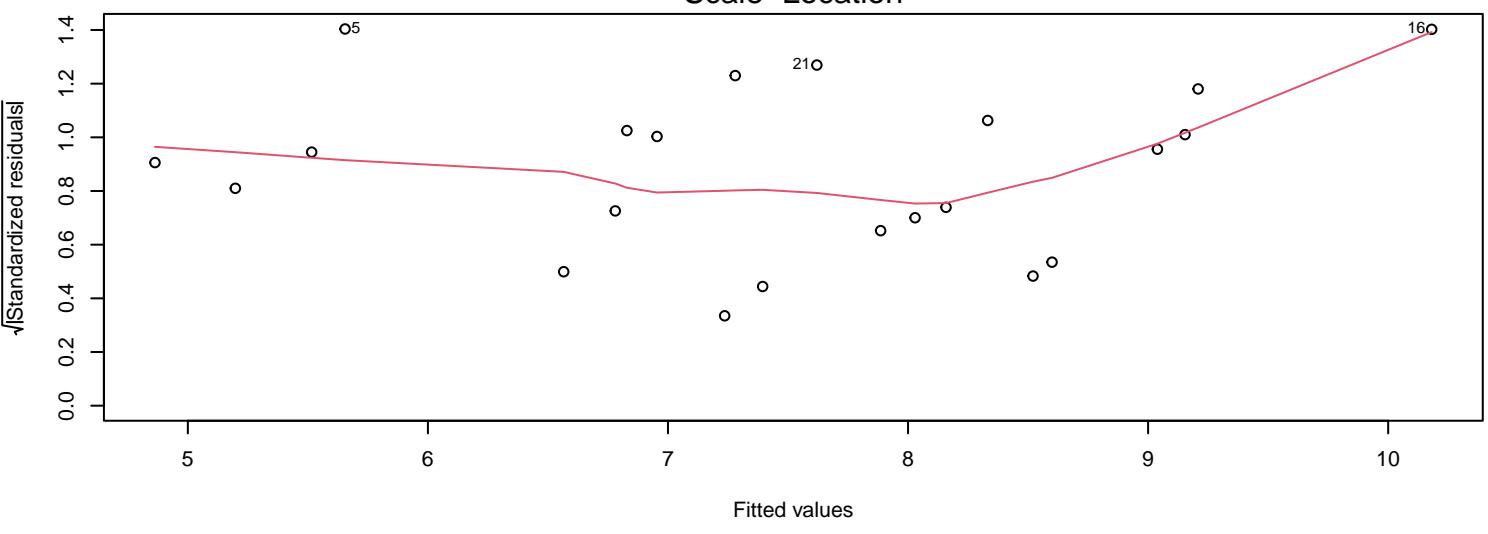
**Residuals vs Fitted: bdi\_sum ~ volume\_pre\_max**  
Residuals vs Fitted



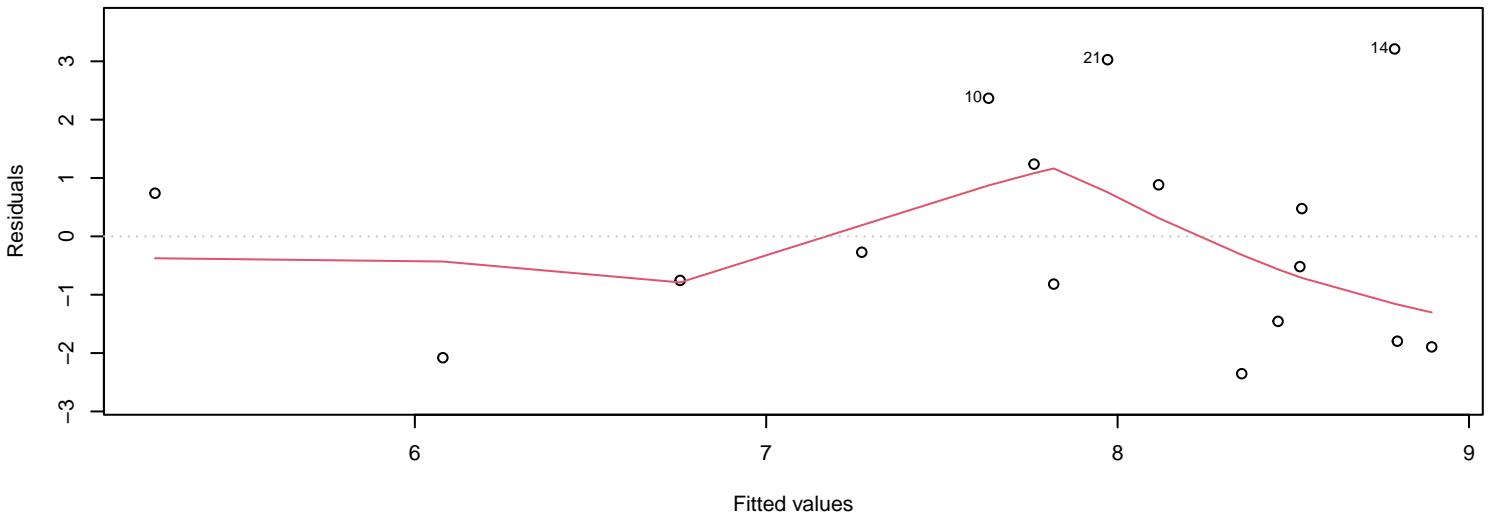
**Normal Q-Q: bdi\_sum ~ volume\_pre\_max**  
Q-Q Residuals



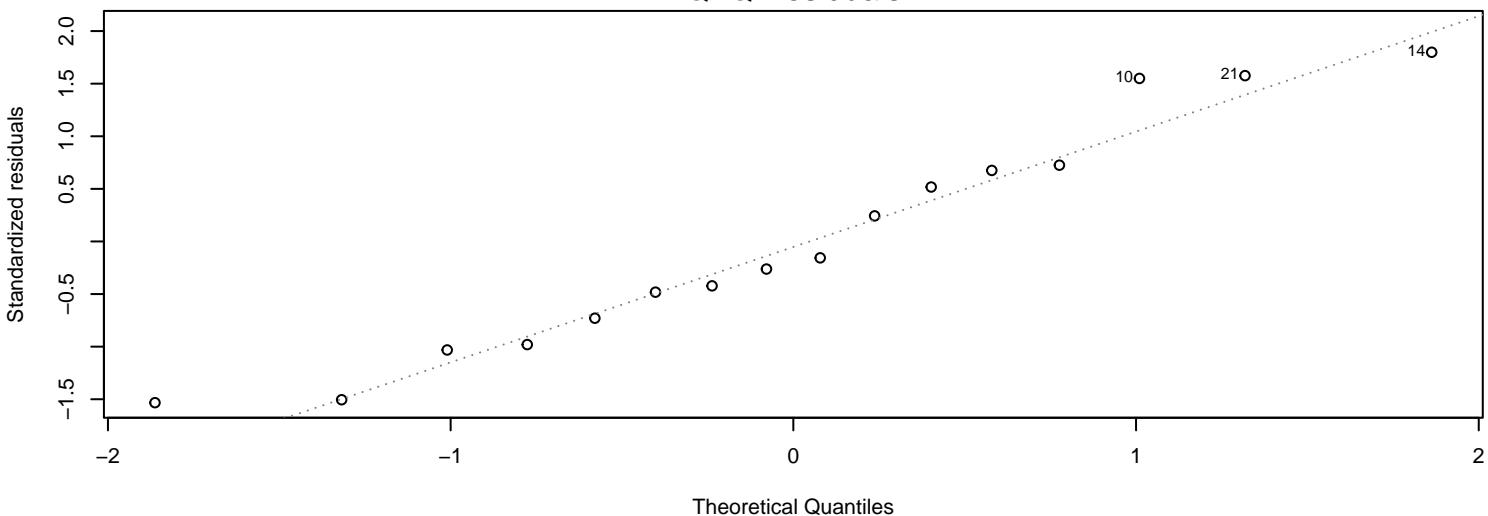
**Scale–Location: bdi\_sum ~ volume\_pre\_max**  
Scale–Location



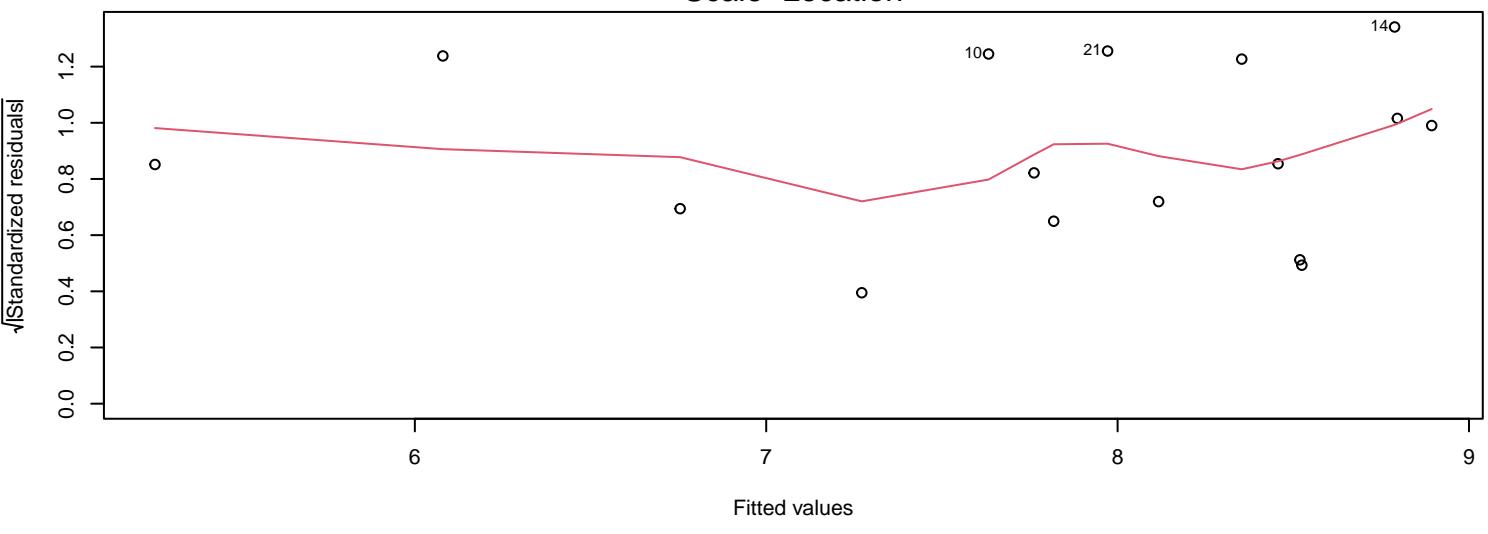
**Residuals vs Fitted: bdi\_sum ~ id\_pre\_max**  
Residuals vs Fitted



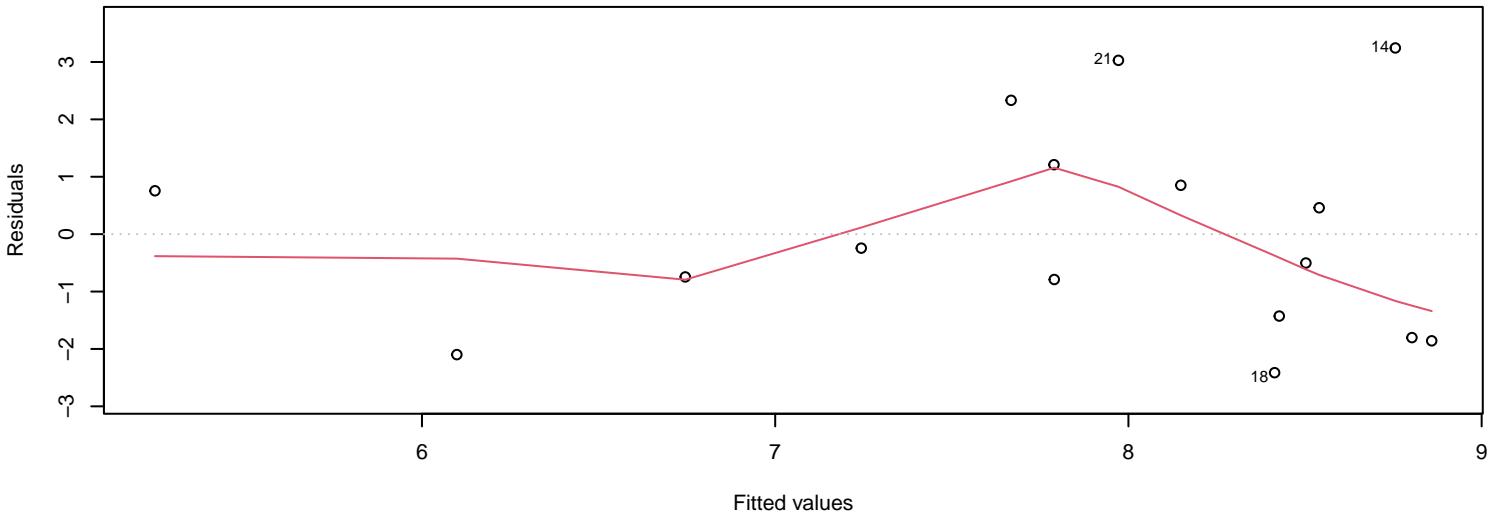
**Normal Q–Q: bdi\_sum ~ id\_pre\_max**  
Q–Q Residuals



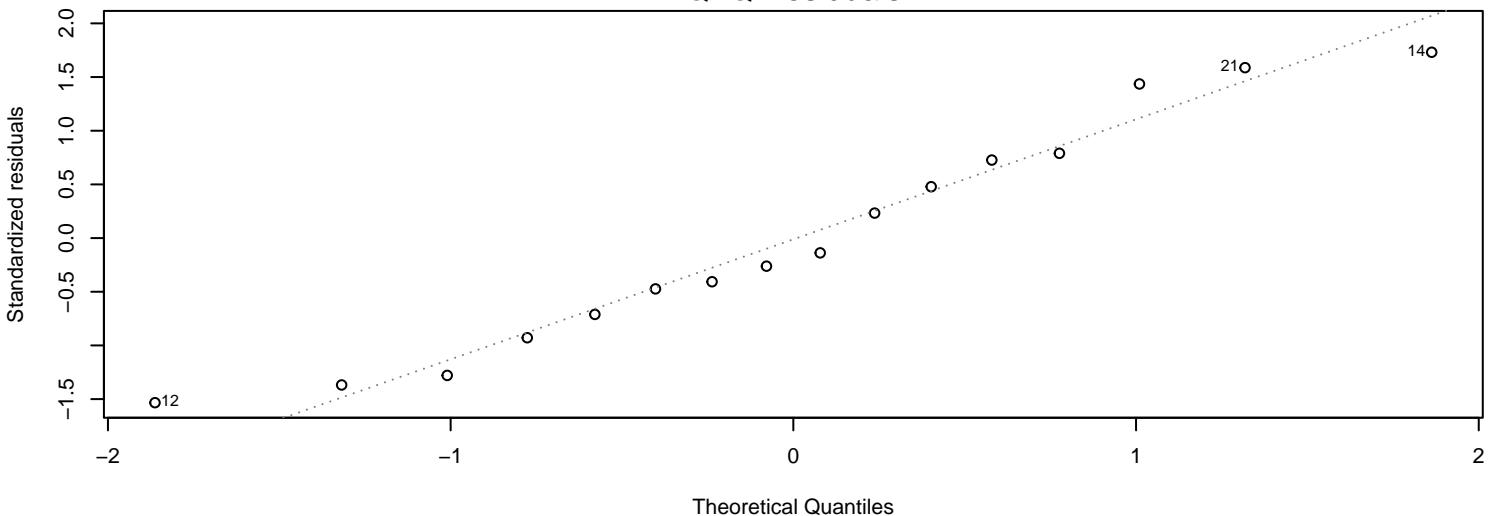
**Scale–Location: bdi\_sum ~ id\_pre\_max**  
Scale–Location



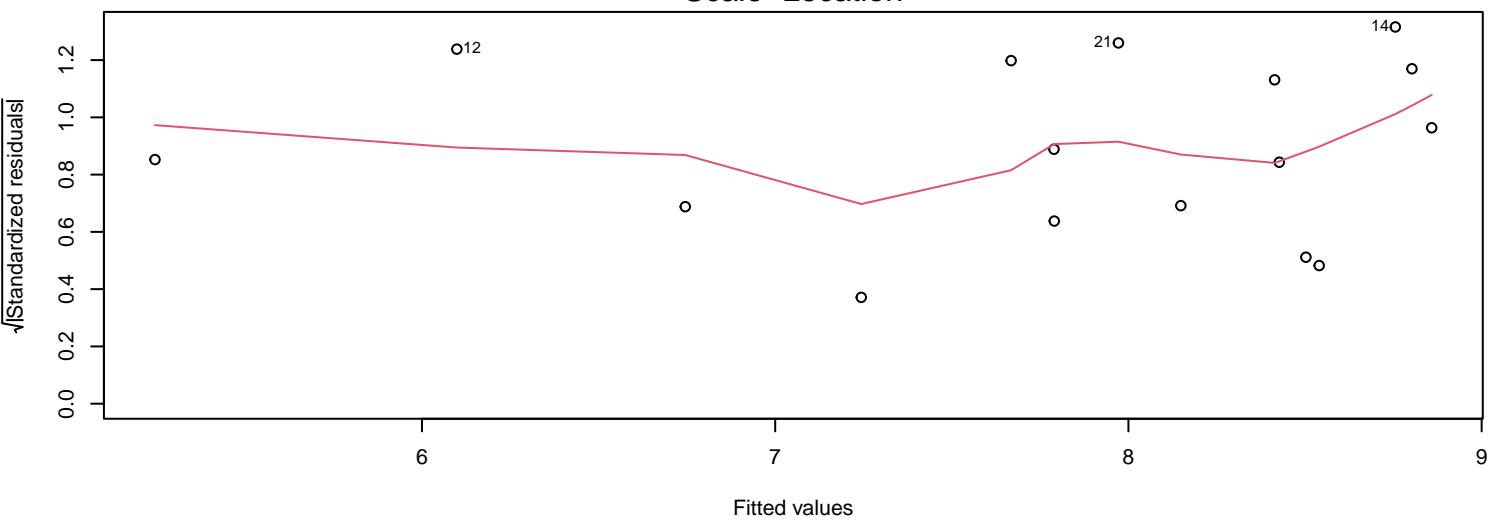
**Residuals vs Fitted: bdi\_sum ~ slopesmip\_pre\_max**  
Residuals vs Fitted



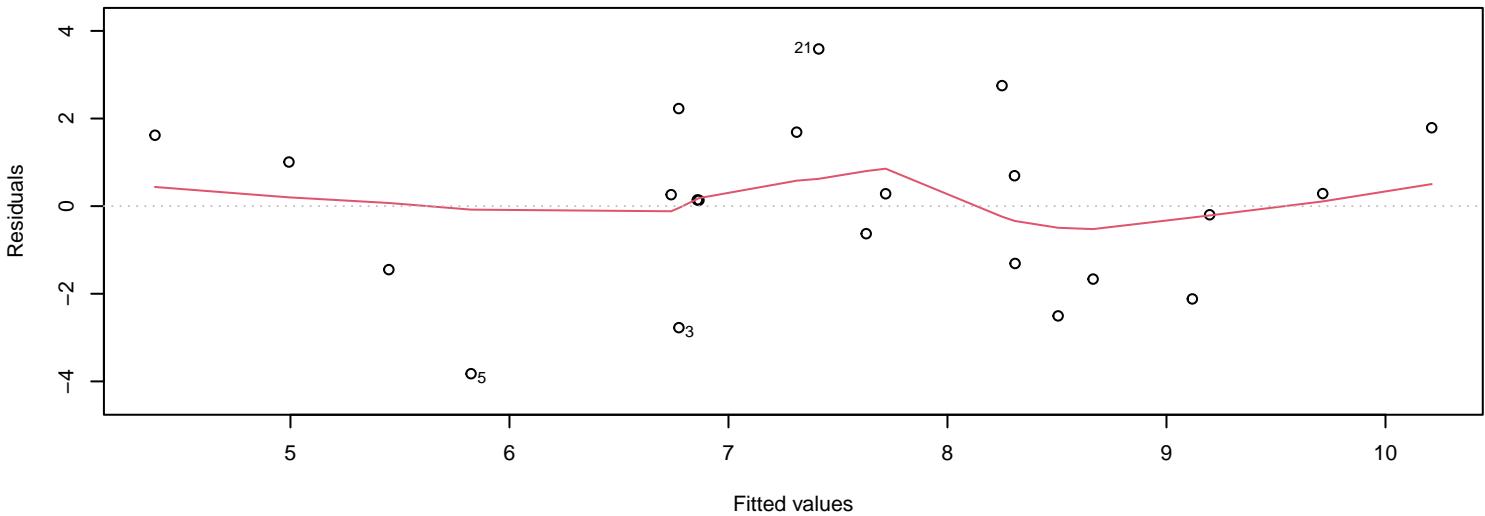
**Normal Q-Q: bdi\_sum ~ slopesmip\_pre\_max**  
Q-Q Residuals



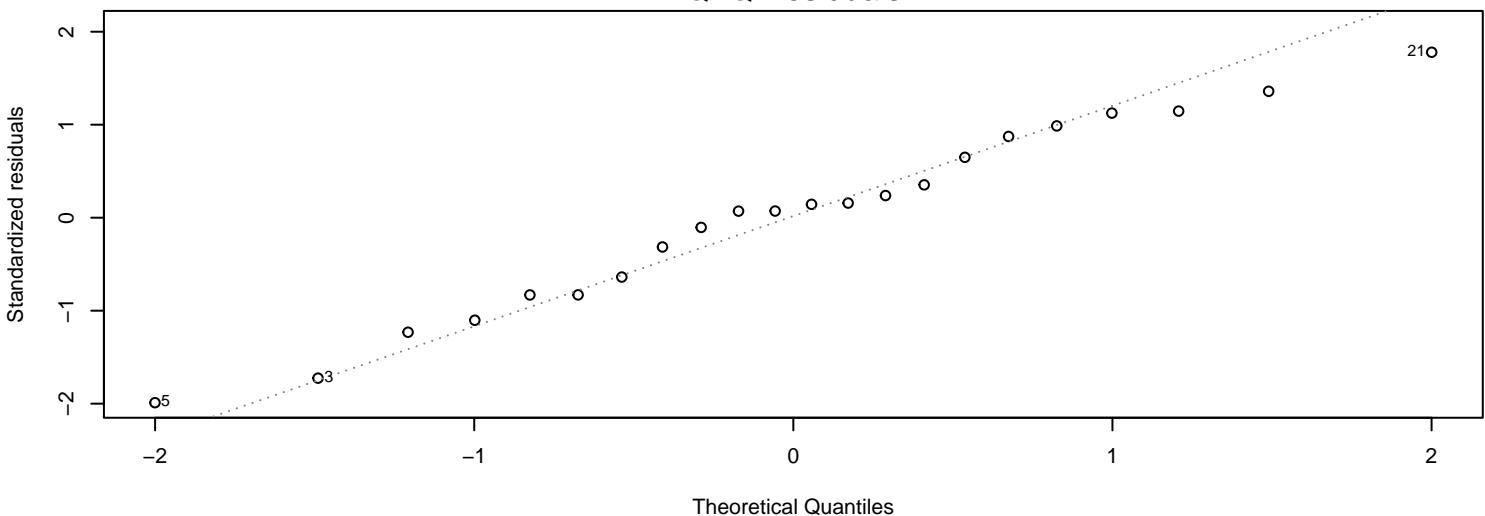
**Scale–Location: bdi\_sum ~ slopesmip\_pre\_max**  
Scale–Location



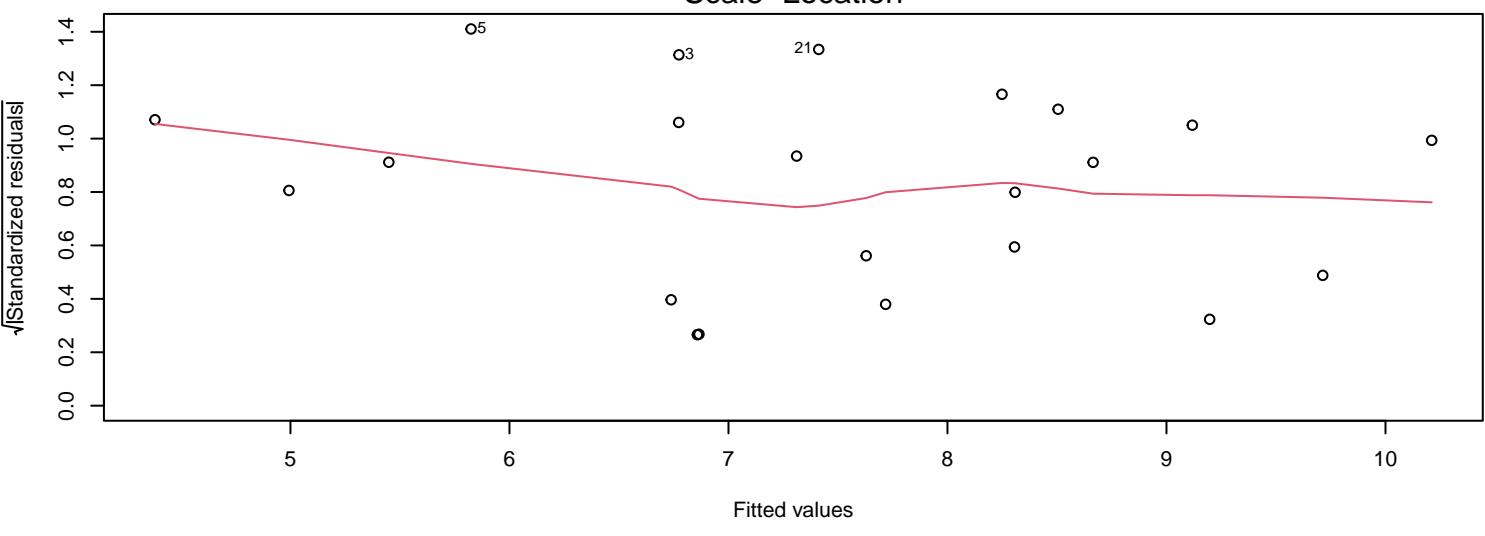
**Residuals vs Fitted: bdi\_sum ~ mip\_post\_max**  
Residuals vs Fitted



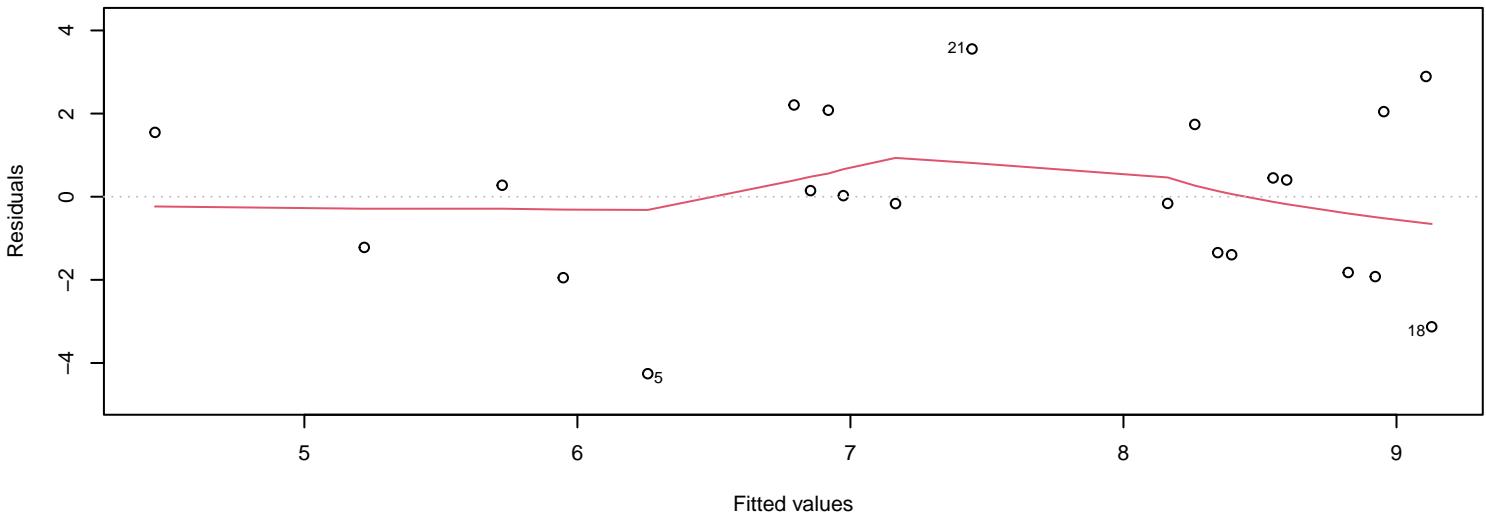
**Normal Q-Q: bdi\_sum ~ mip\_post\_max**  
Q-Q Residuals



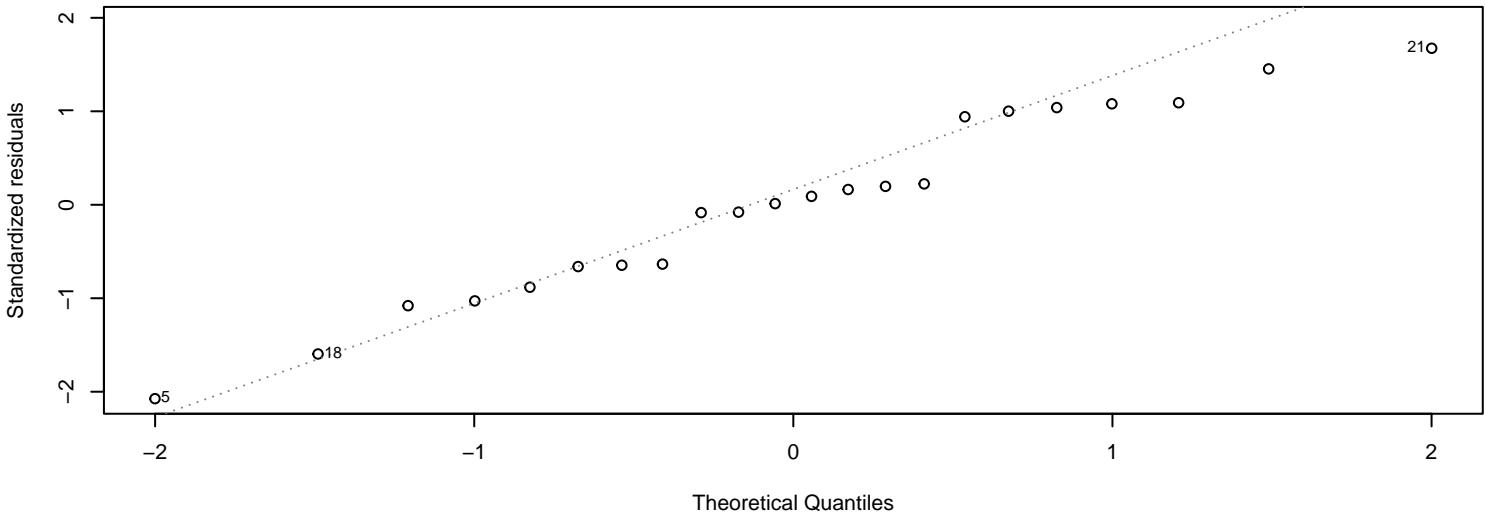
**Scale-Location: bdi\_sum ~ mip\_post\_max**  
Scale-Location



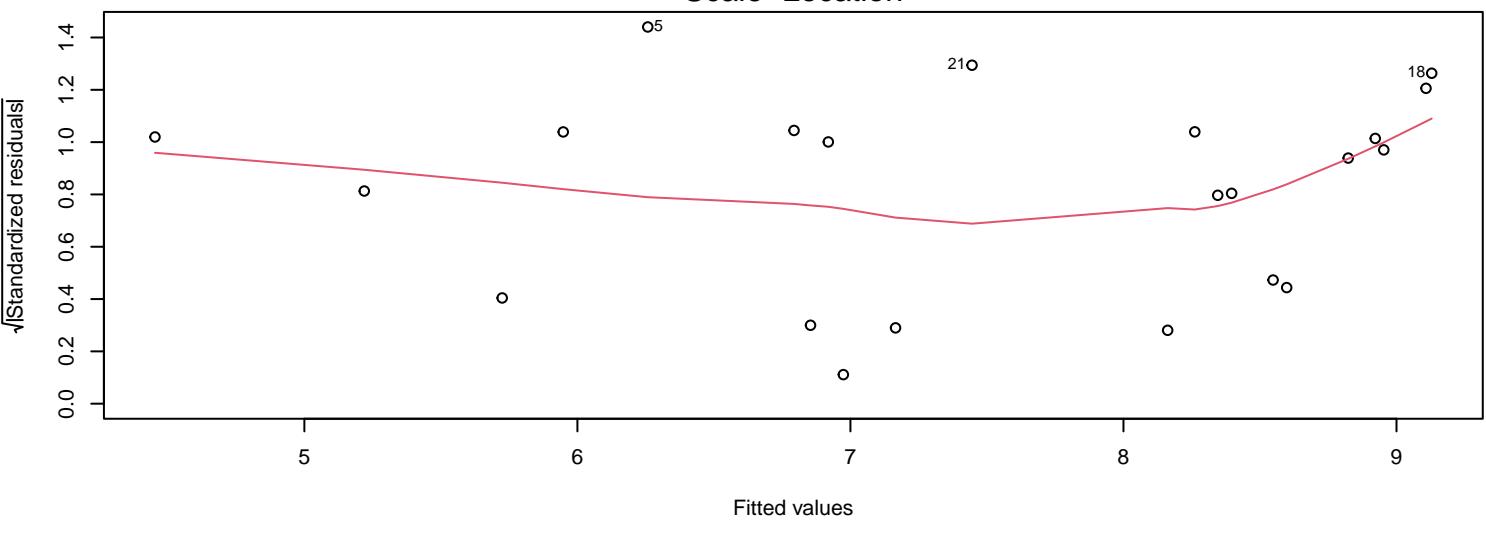
**Residuals vs Fitted: bdi\_sum ~ smip\_post\_max**  
Residuals vs Fitted



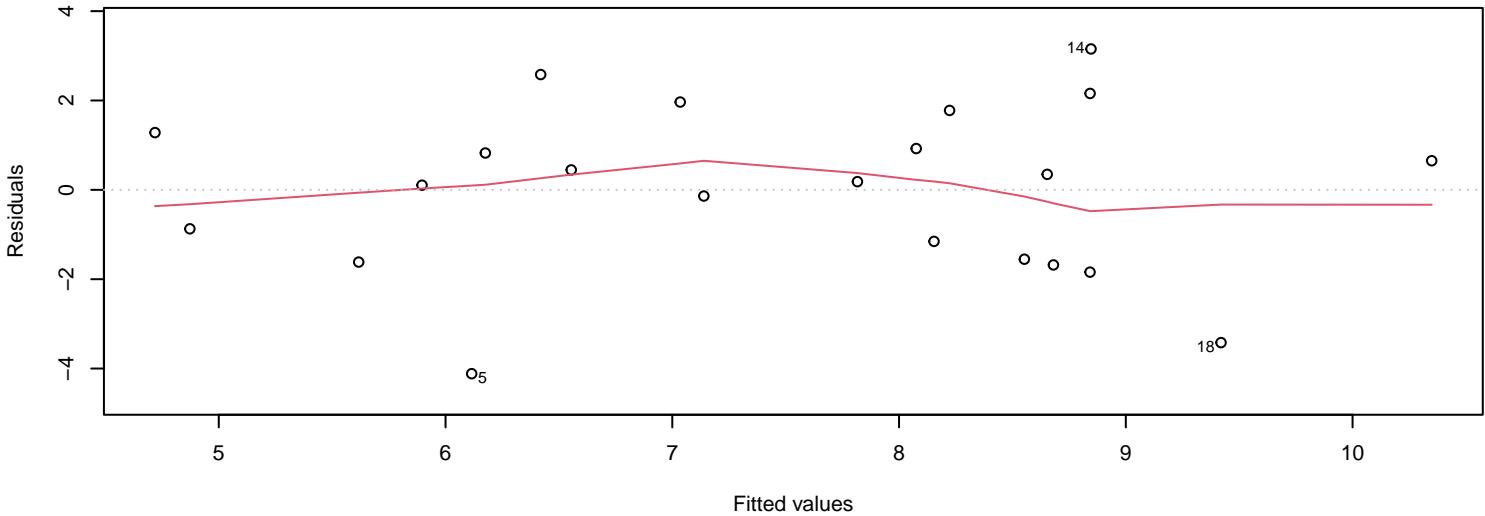
**Normal Q-Q: bdi\_sum ~ smip\_post\_max**  
Q-Q Residuals



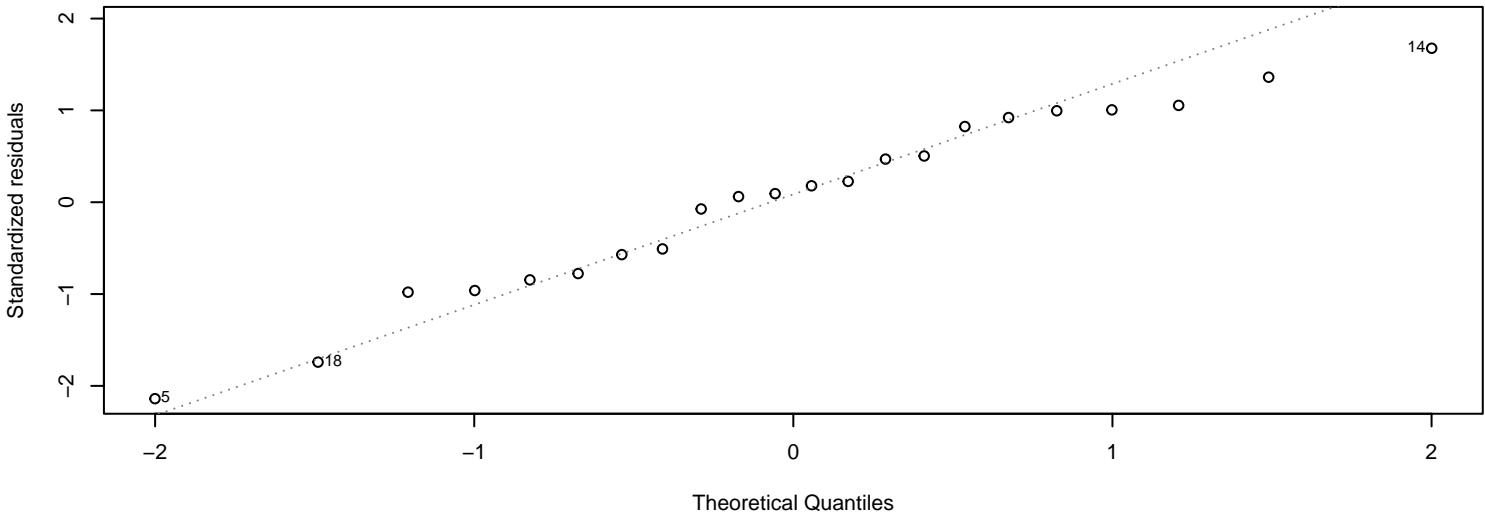
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Scale–Location



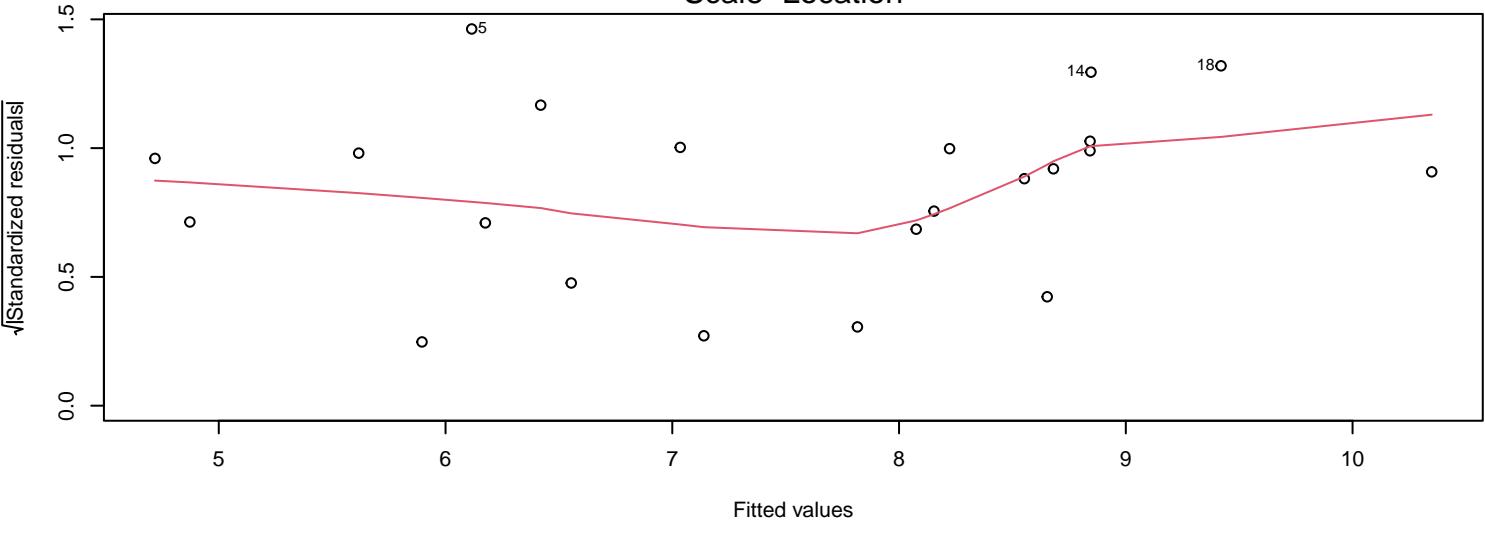
**Residuals vs Fitted: bdi\_sum ~ fit\_post\_max**  
Residuals vs Fitted



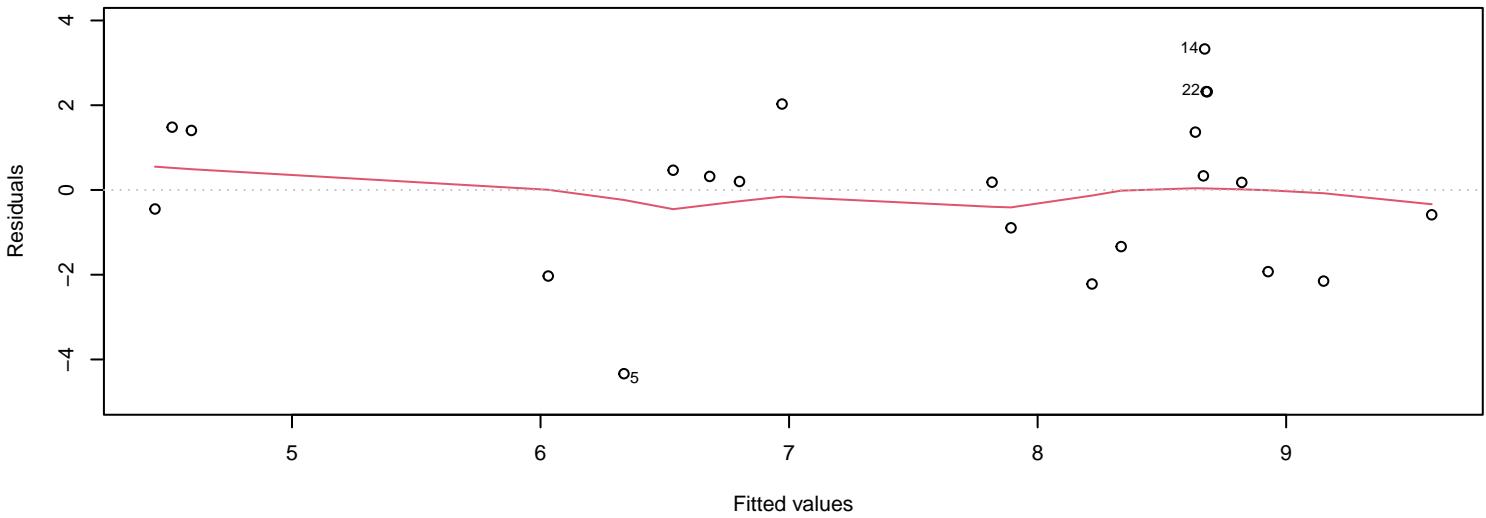
**Normal Q-Q: bdi\_sum ~ fit\_post\_max**  
Q-Q Residuals



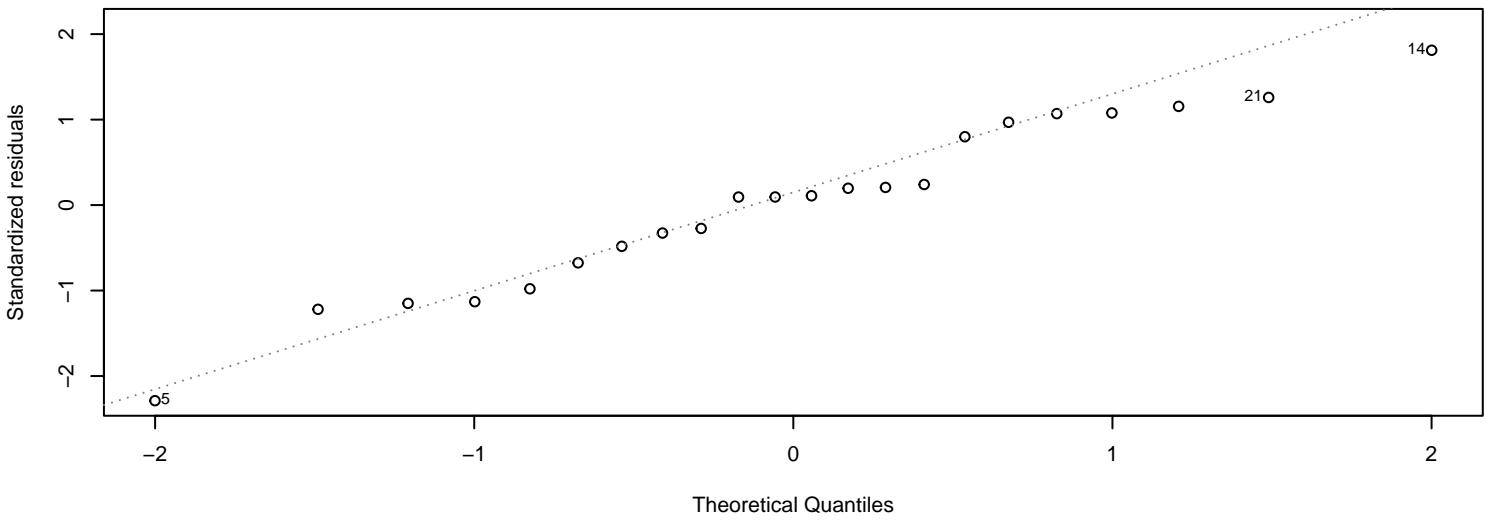
**Scale-Location: bdi\_sum ~ fit\_post\_max**  
Scale-Location



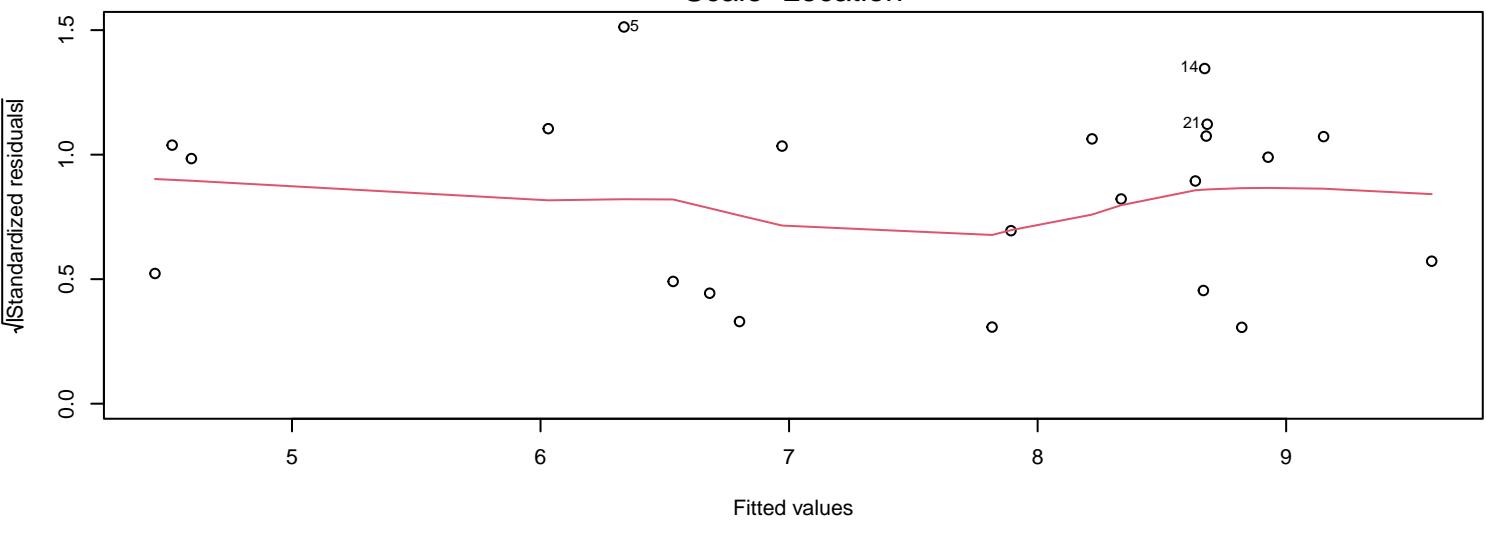
**Residuals vs Fitted: bdi\_sum ~ pif\_post\_max**  
Residuals vs Fitted



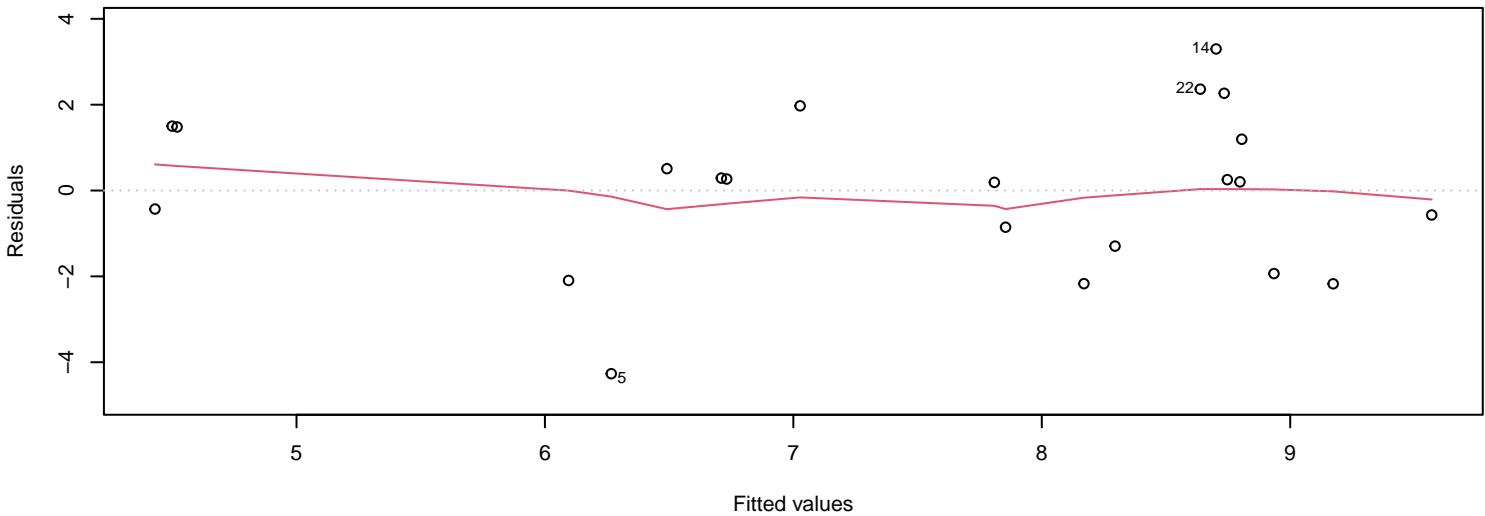
**Normal Q-Q: bdi\_sum ~ pif\_post\_max**  
Q-Q Residuals



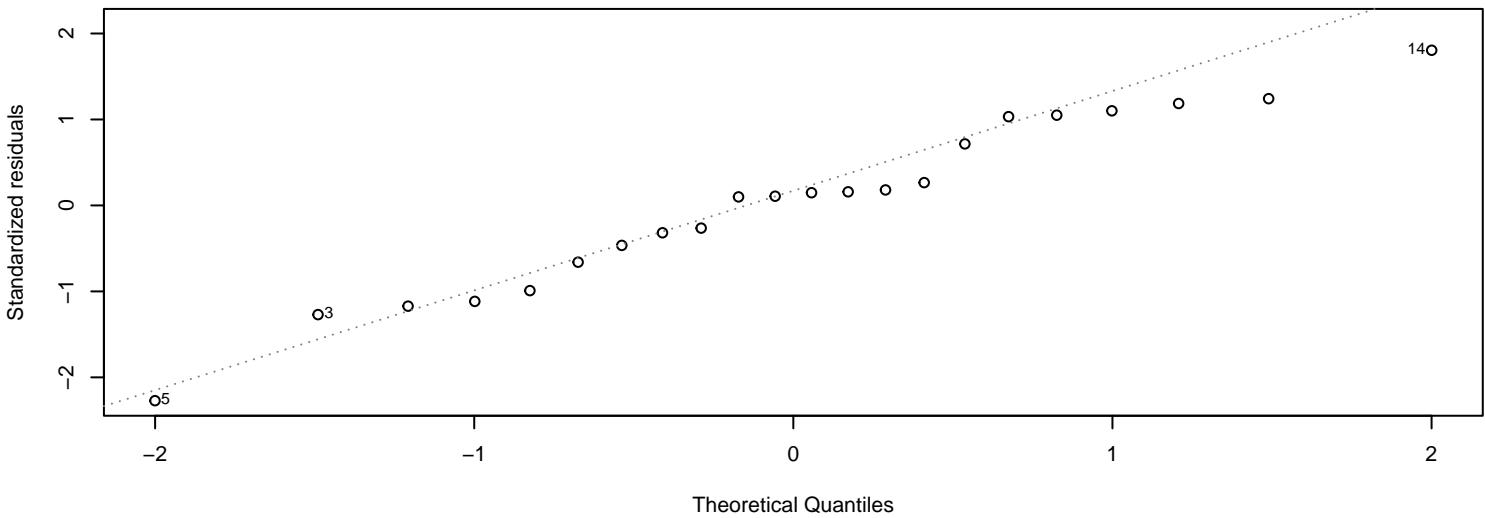
**Scale-Location: bdi\_sum ~ pif\_post\_max**  
Scale-Location



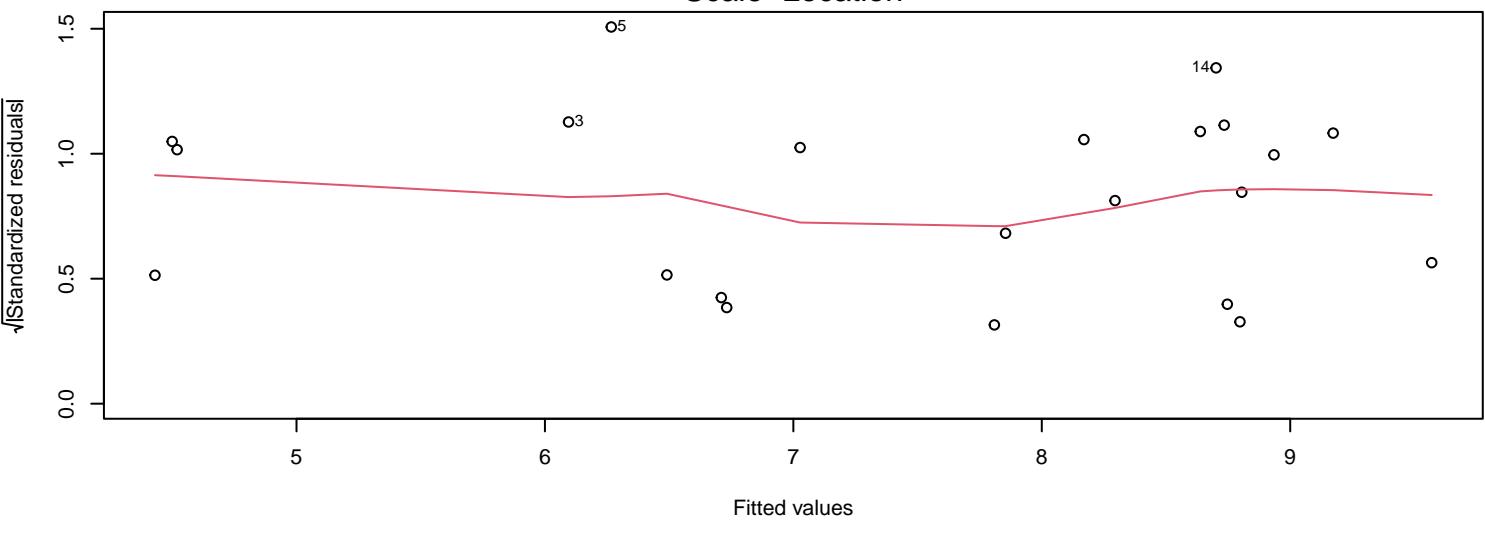
**Residuals vs Fitted: bdi\_sum ~ sindex\_post\_max**  
Residuals vs Fitted



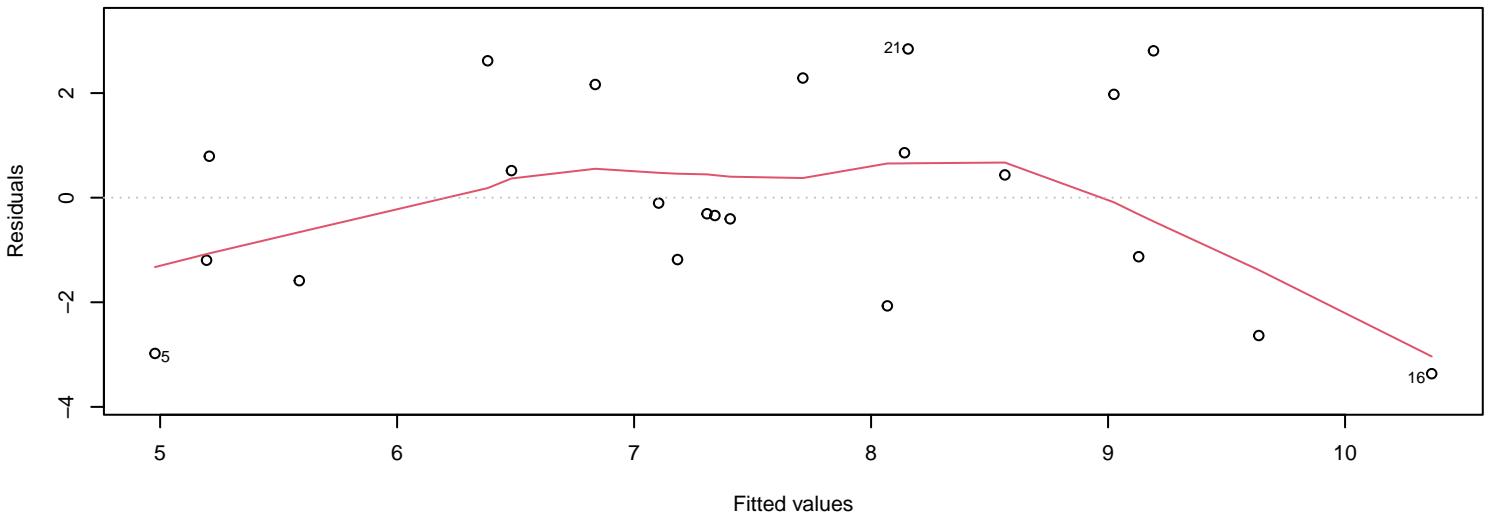
**Normal Q-Q: bdi\_sum ~ sindex\_post\_max**  
Q-Q Residuals



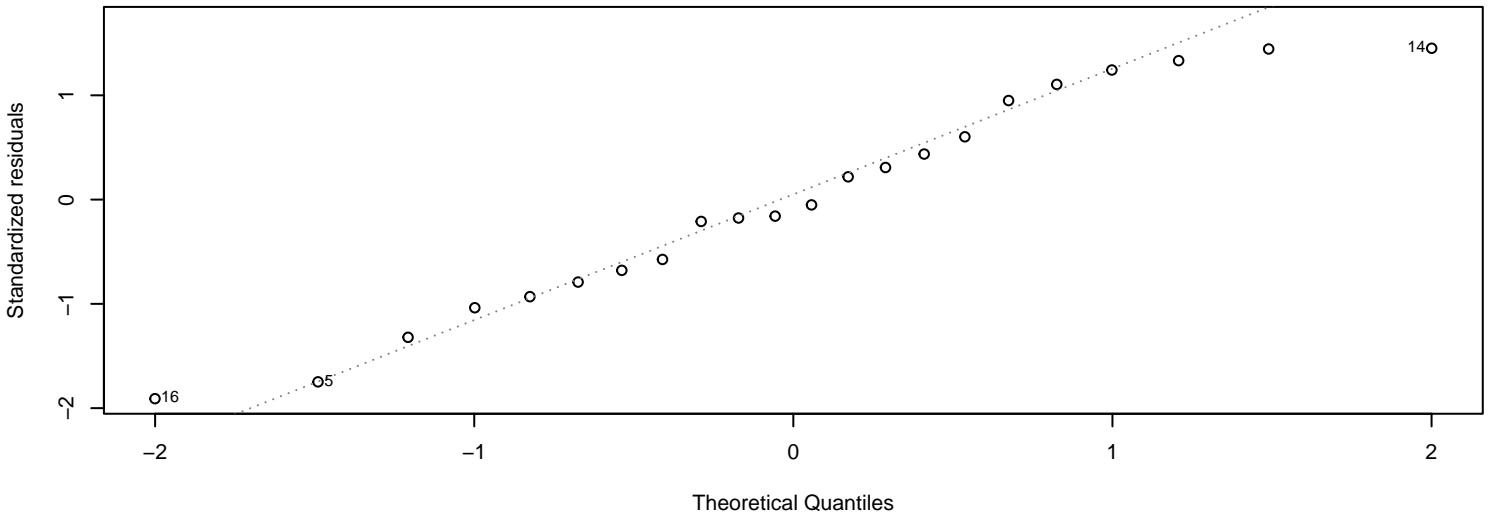
**Scale-Location: bdi\_sum ~ sindex\_post\_max**  
Scale-Location



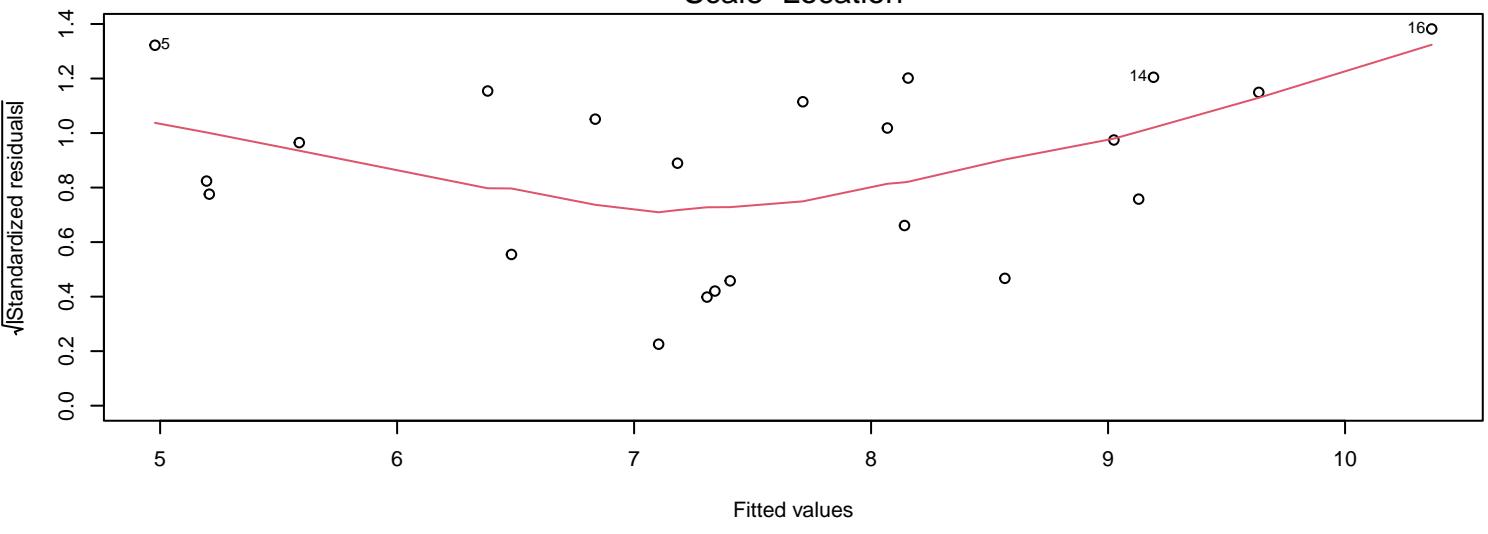
**Residuals vs Fitted: bdi\_sum ~ volume\_post\_max**  
Residuals vs Fitted



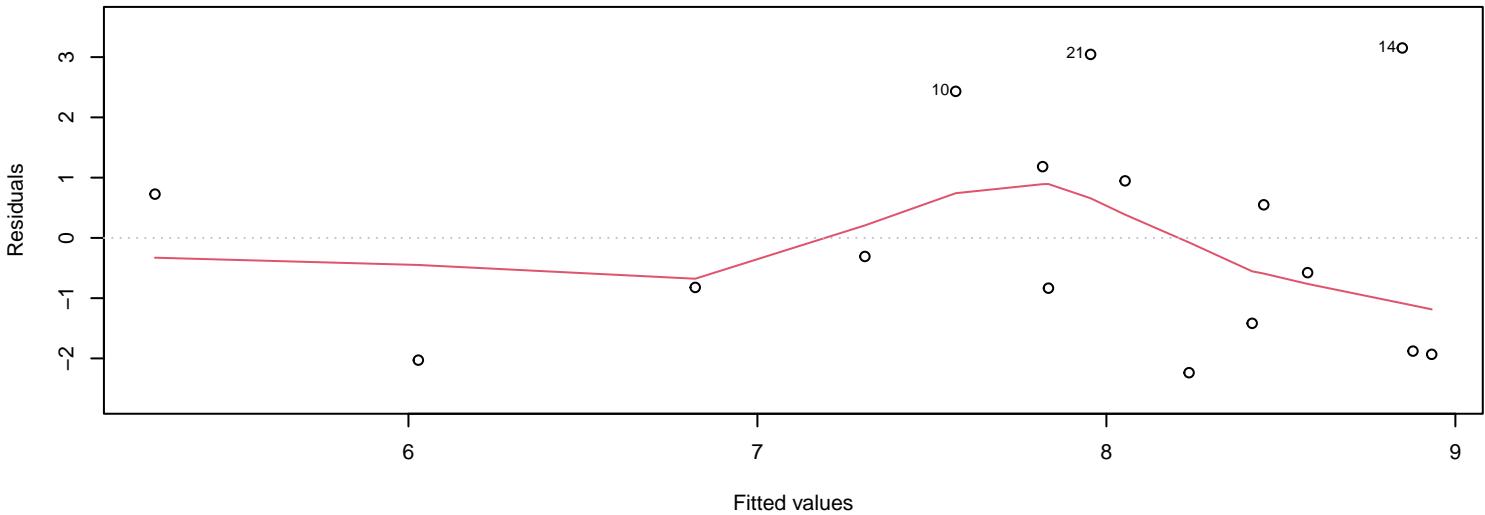
**Normal Q-Q: bdi\_sum ~ volume\_post\_max**  
Q-Q Residuals



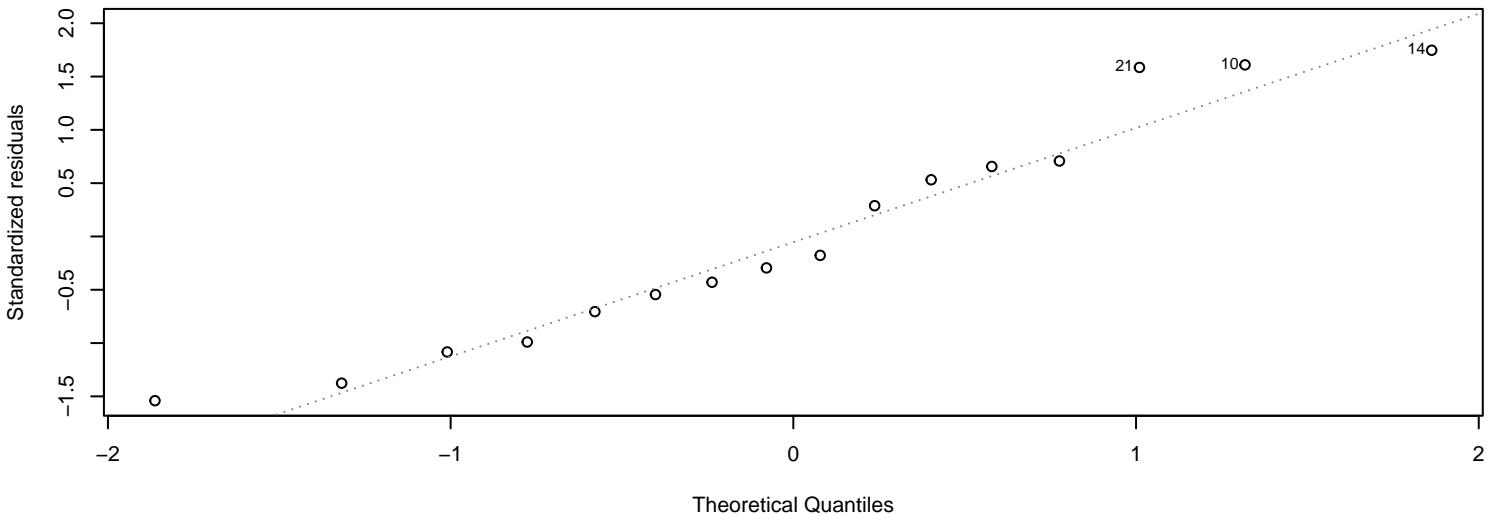
**Scale-Location: bdi\_sum ~ volume\_post\_max**  
Scale-Location



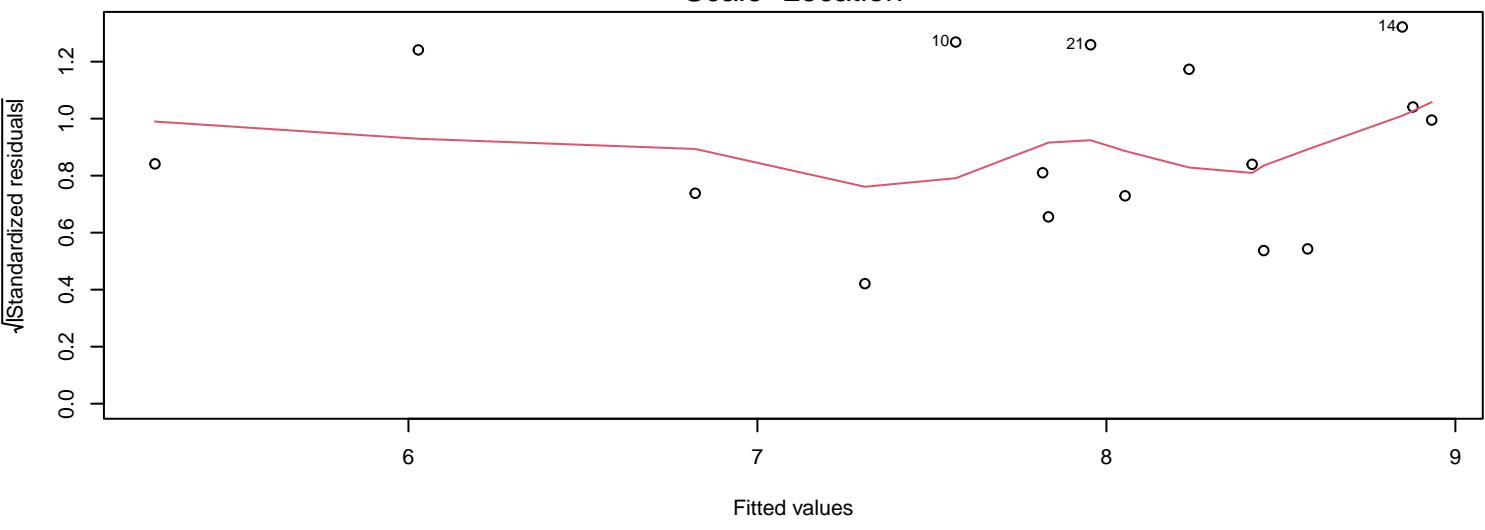
**Residuals vs Fitted: bdi\_sum ~ id\_post\_max**  
Residuals vs Fitted



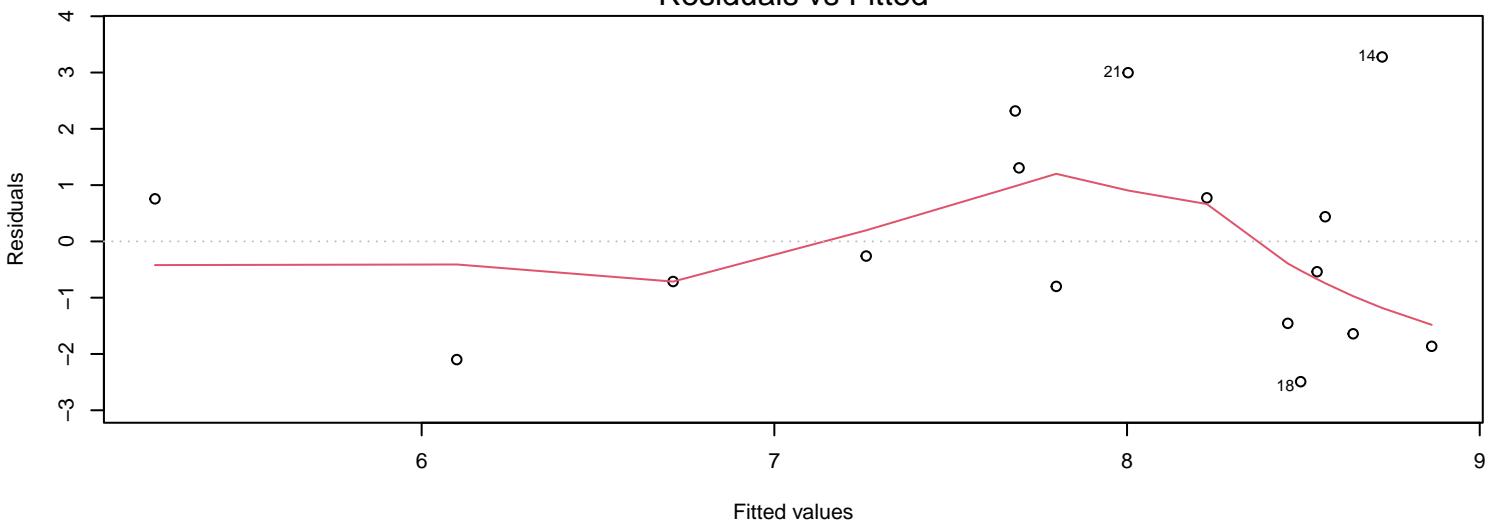
**Normal Q-Q: bdi\_sum ~ id\_post\_max**  
Q-Q Residuals



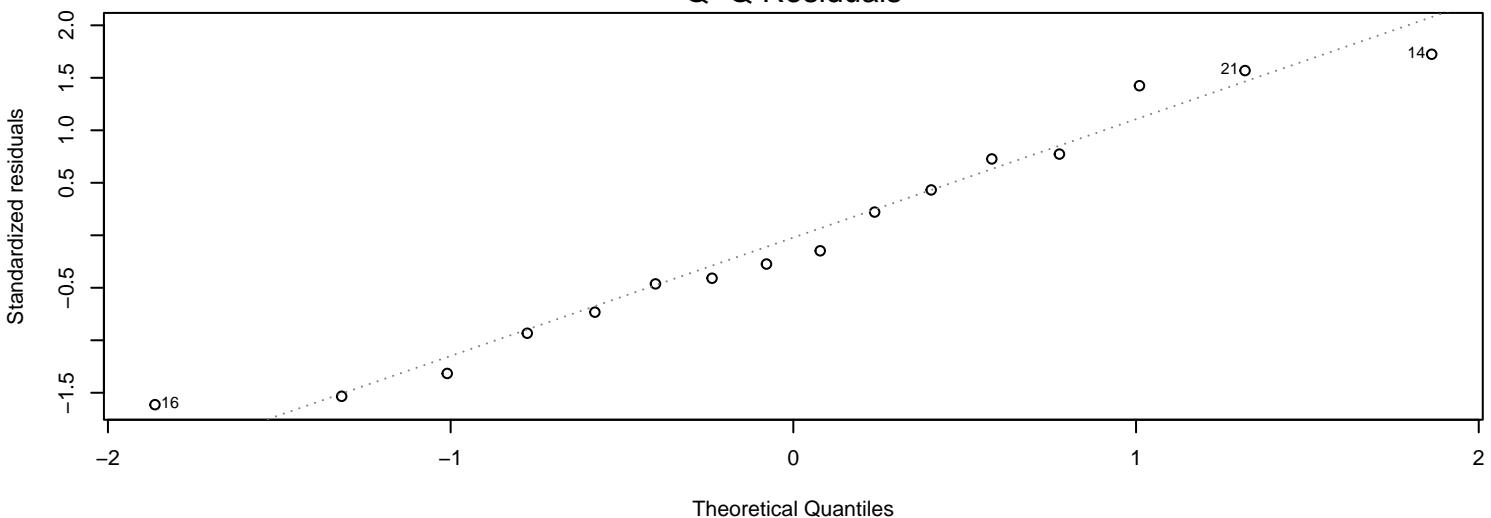
**Scale–Location: bdi\_sum ~ id\_post\_max**  
Scale–Location



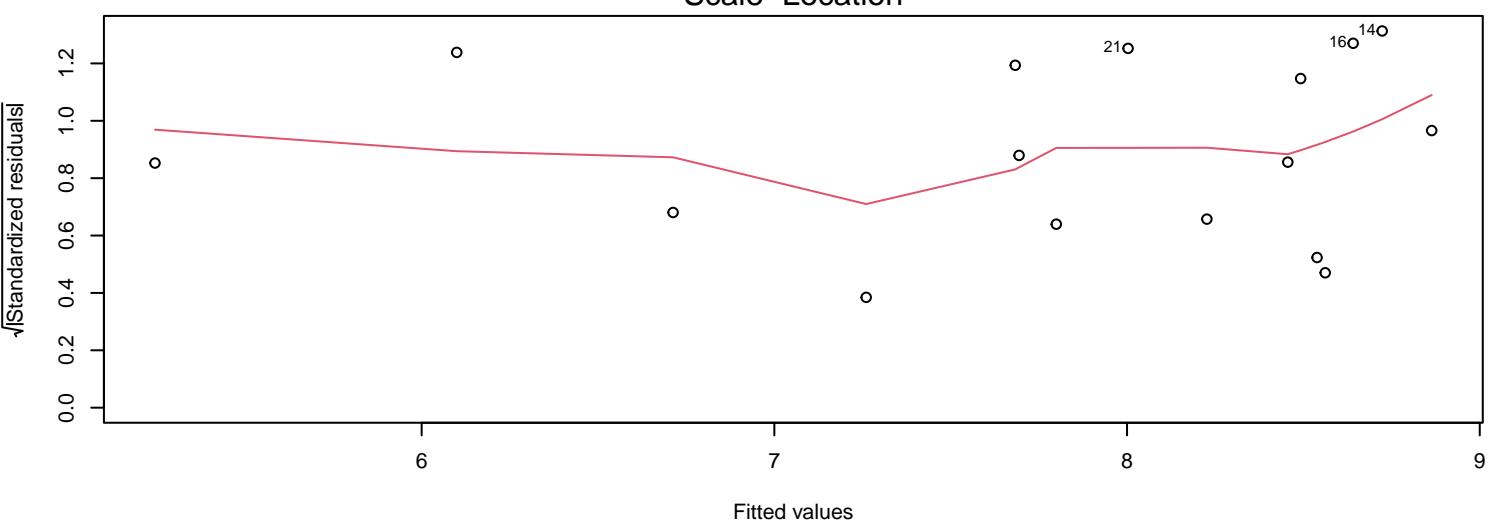
**Residuals vs Fitted: bdi\_sum ~ slopesmip\_post\_max**  
Residuals vs Fitted



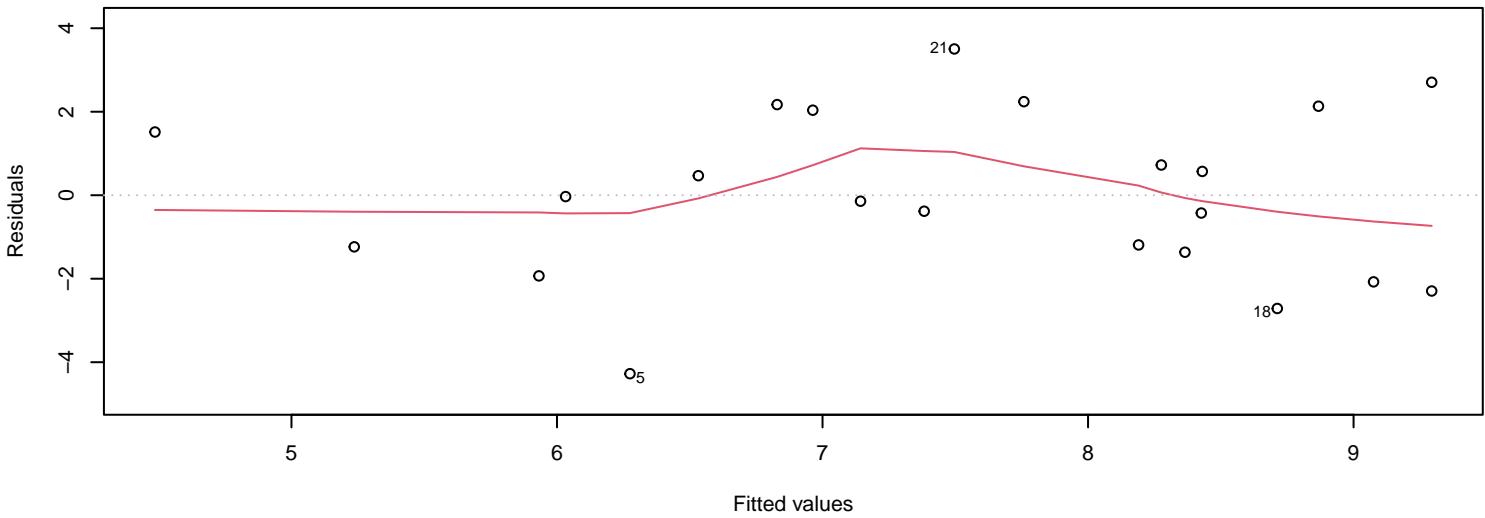
**Normal Q–Q: bdi\_sum ~ slopesmip\_post\_max**  
Q–Q Residuals



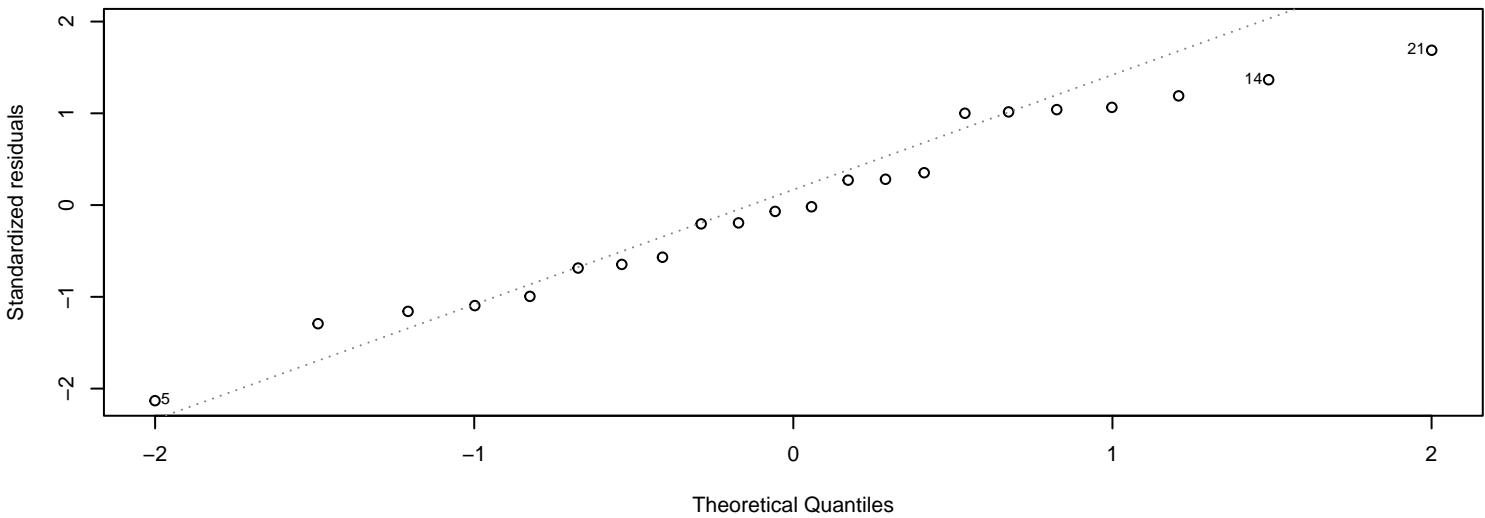
**Scale–Location: bdi\_sum ~ slopesmip\_post\_max**  
Scale–Location



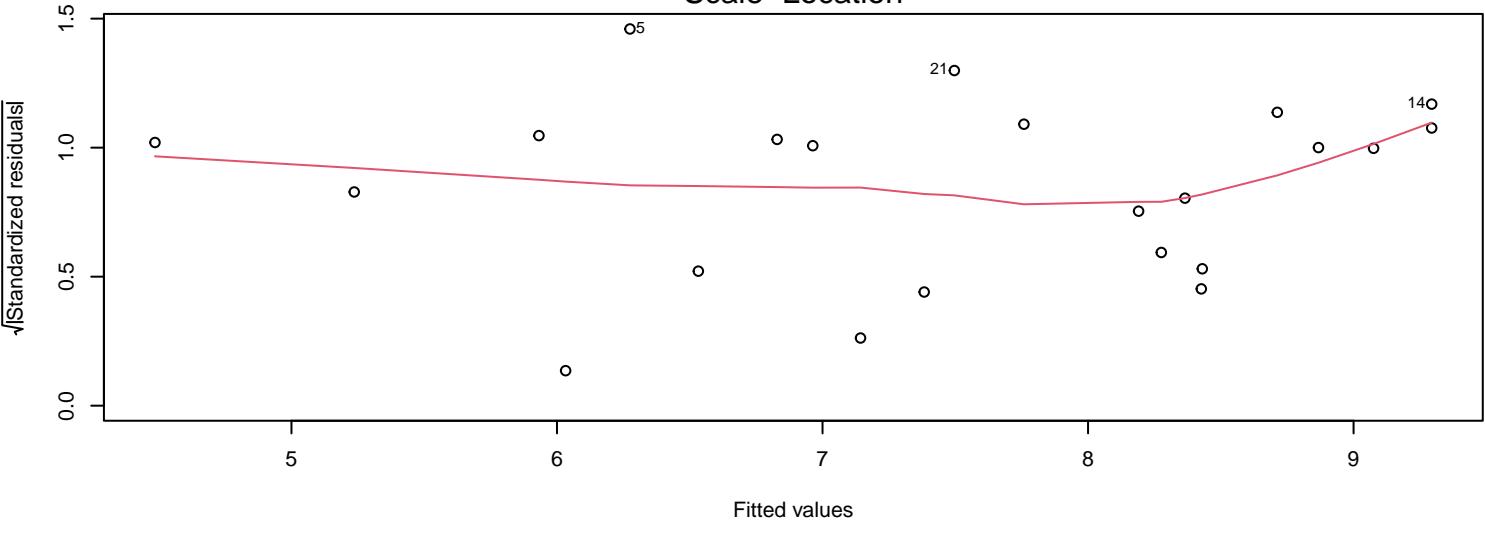
Residuals vs Fitted:  $bdi\_sum \sim bdi\_sum$   
Residuals vs Fitted



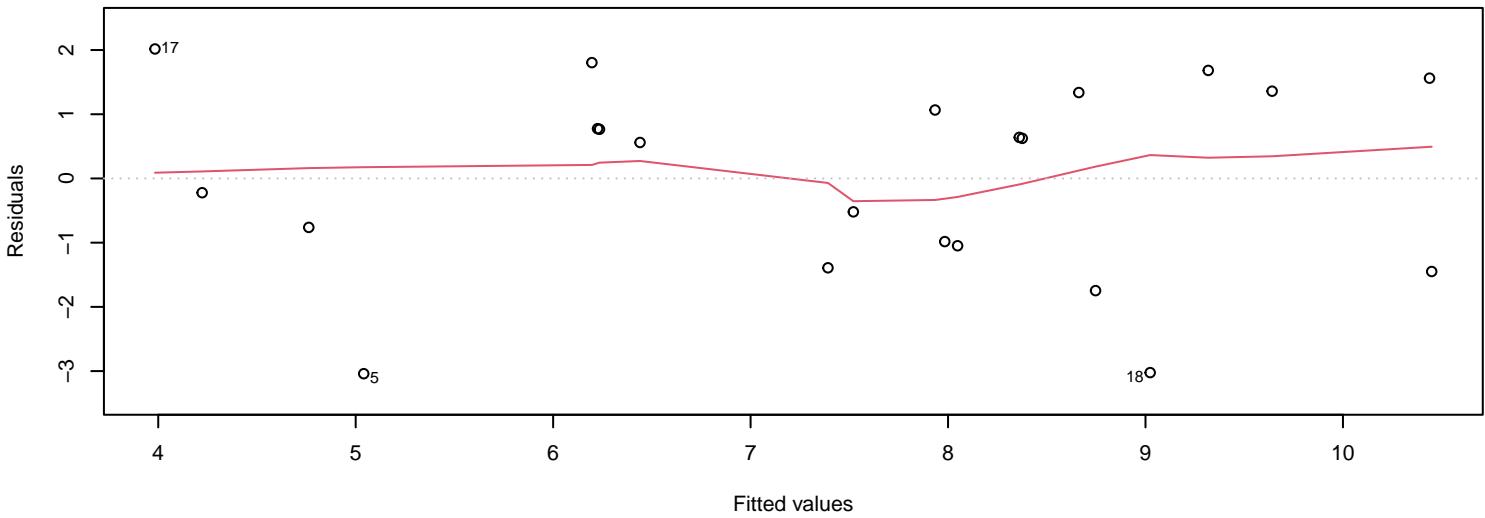
Normal Q-Q:  $bdi\_sum \sim bdi\_sum$   
Q-Q Residuals



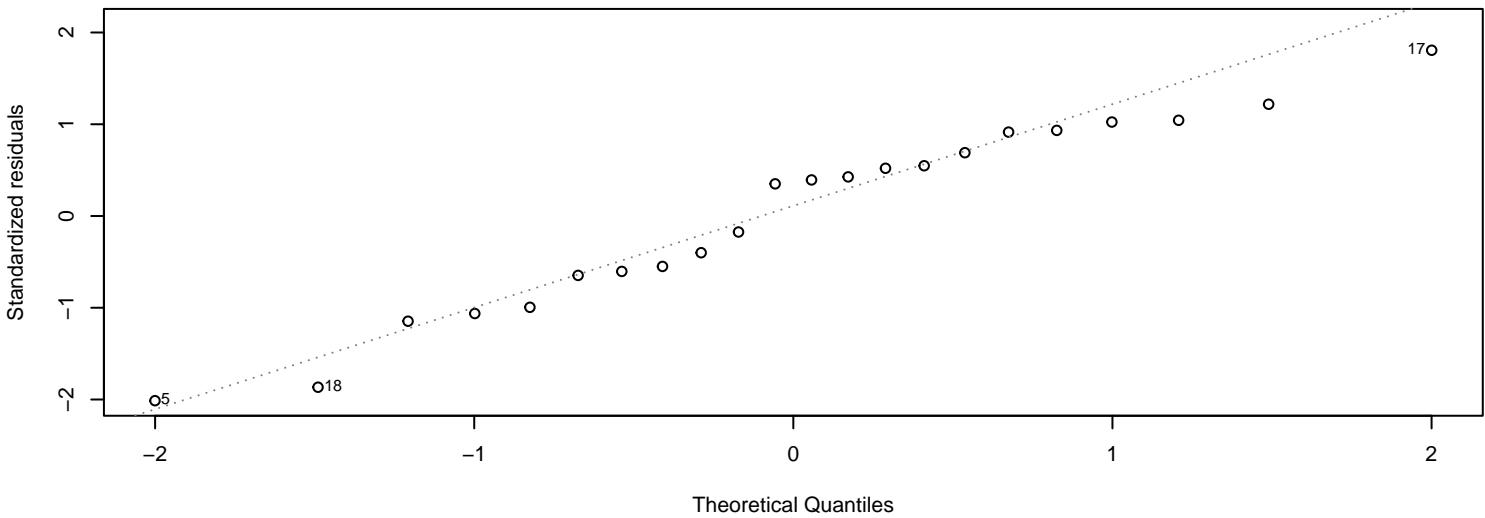
Scale-Location:  $bdi\_sum \sim bdi\_sum$   
Scale-Location



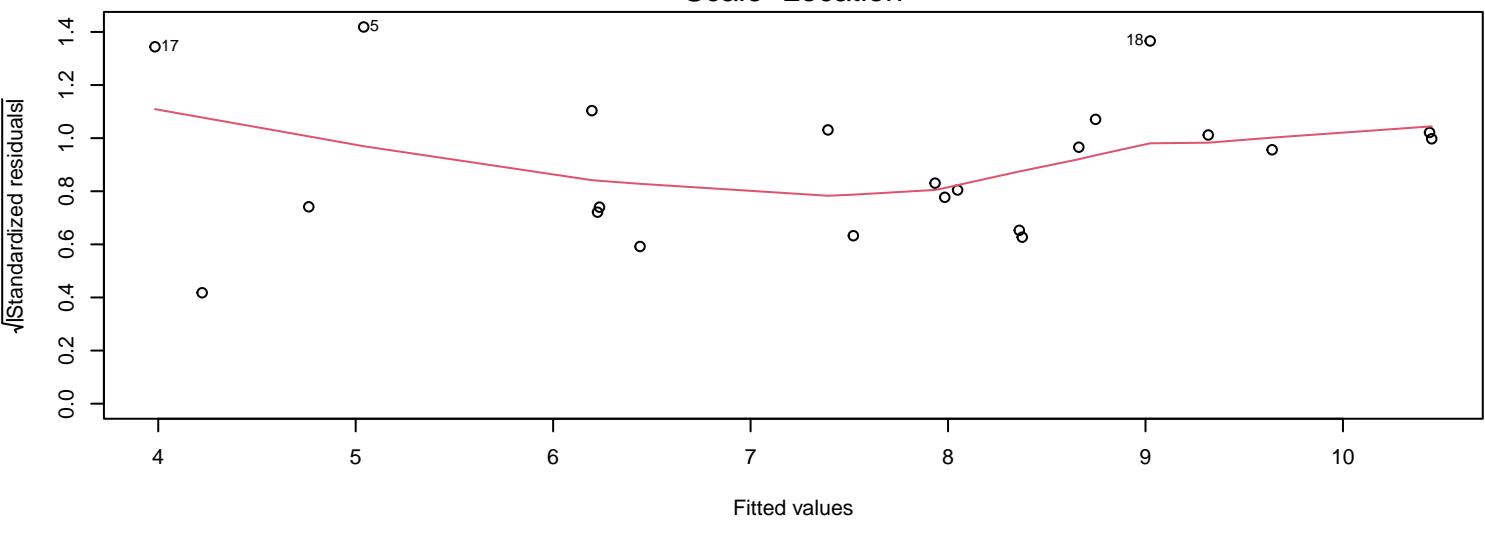
**Residuals vs Fitted: bdi\_sum ~ mmrc\_score**  
Residuals vs Fitted



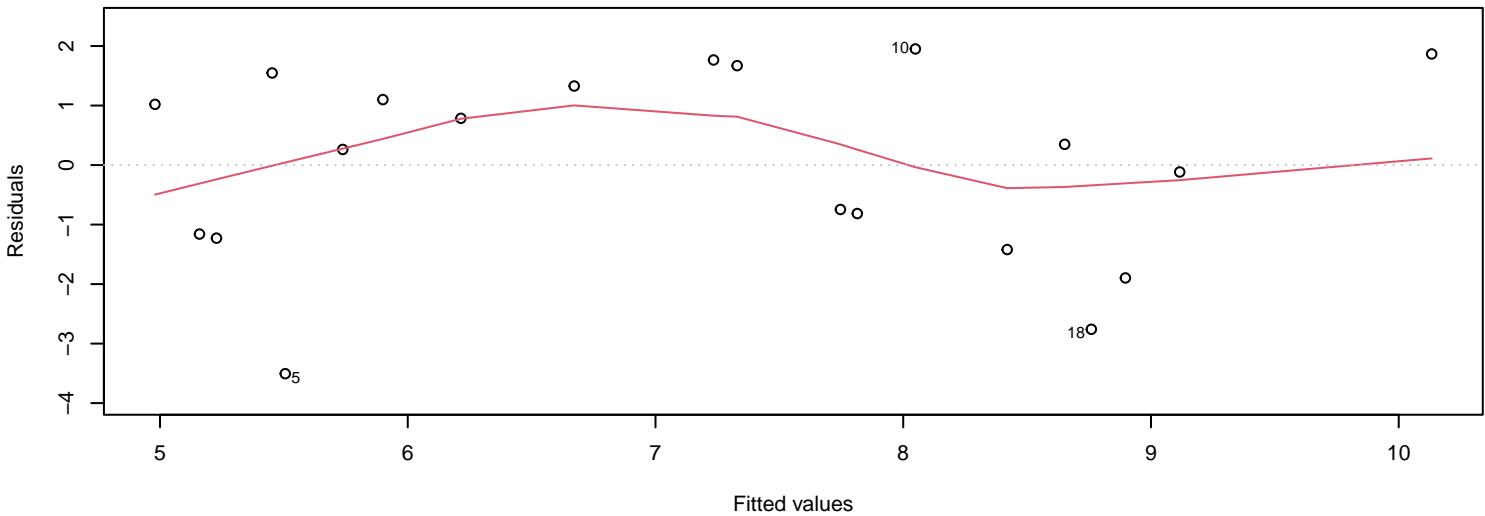
**Normal Q–Q: bdi\_sum ~ mmrc\_score**  
Q–Q Residuals



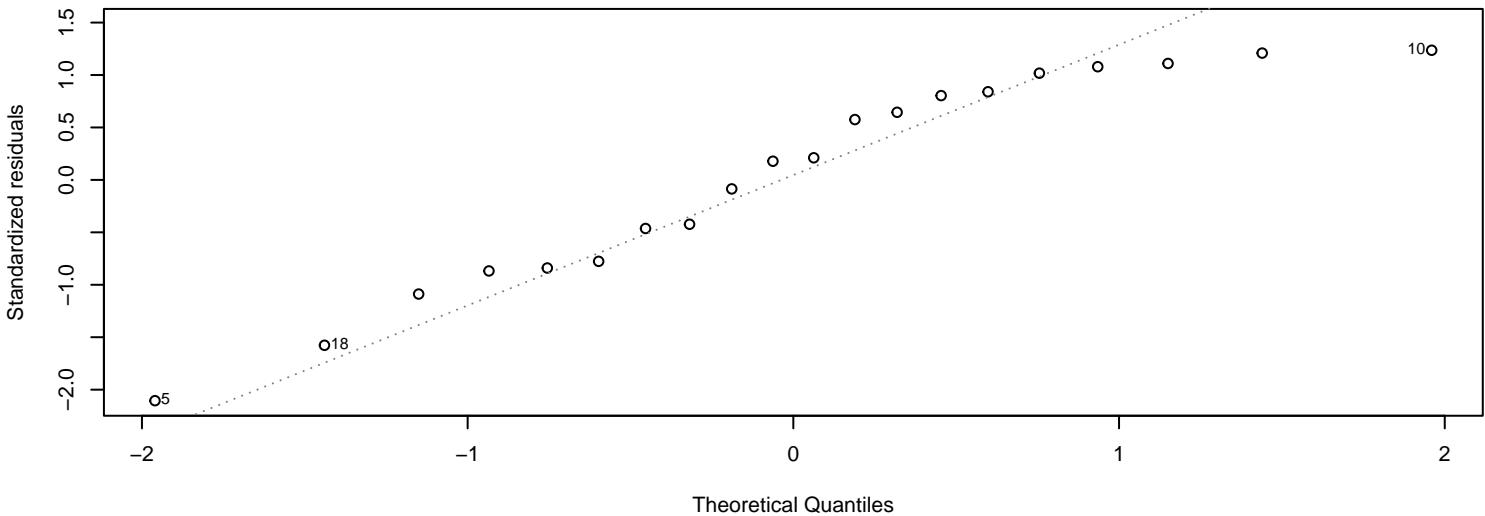
**Scale–Location: bdi\_sum ~ mmrc\_score**  
Scale–Location



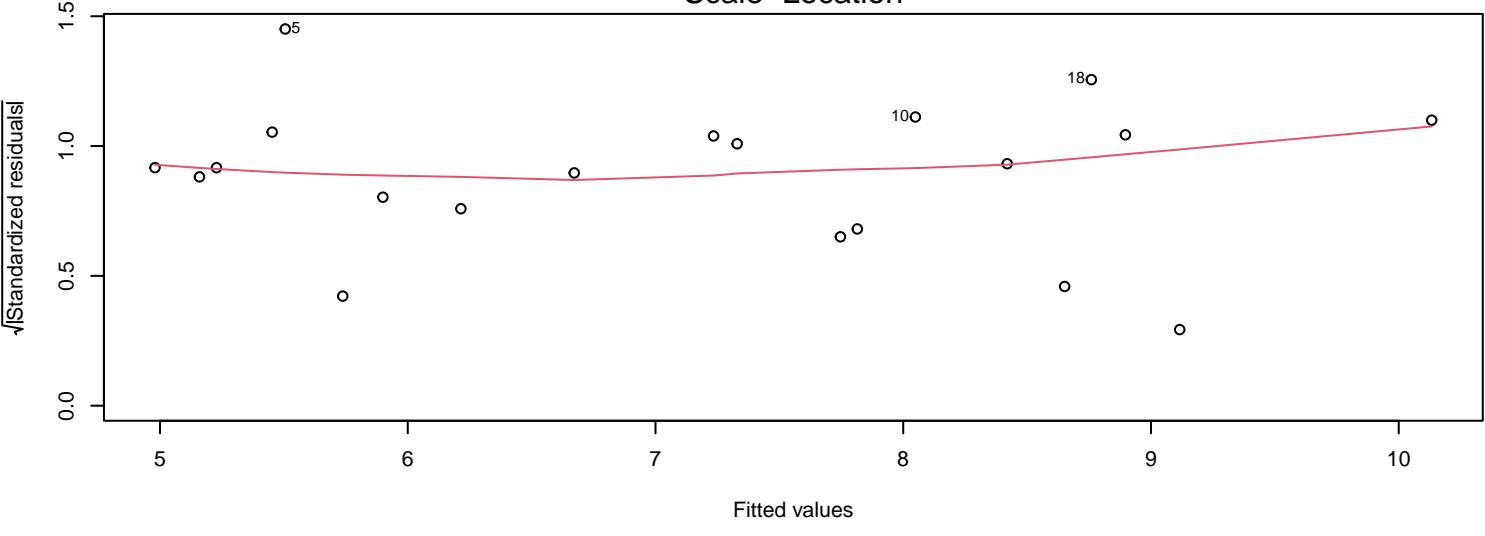
**Residuals vs Fitted: bdi\_sum ~ cpet\_ve**  
Residuals vs Fitted



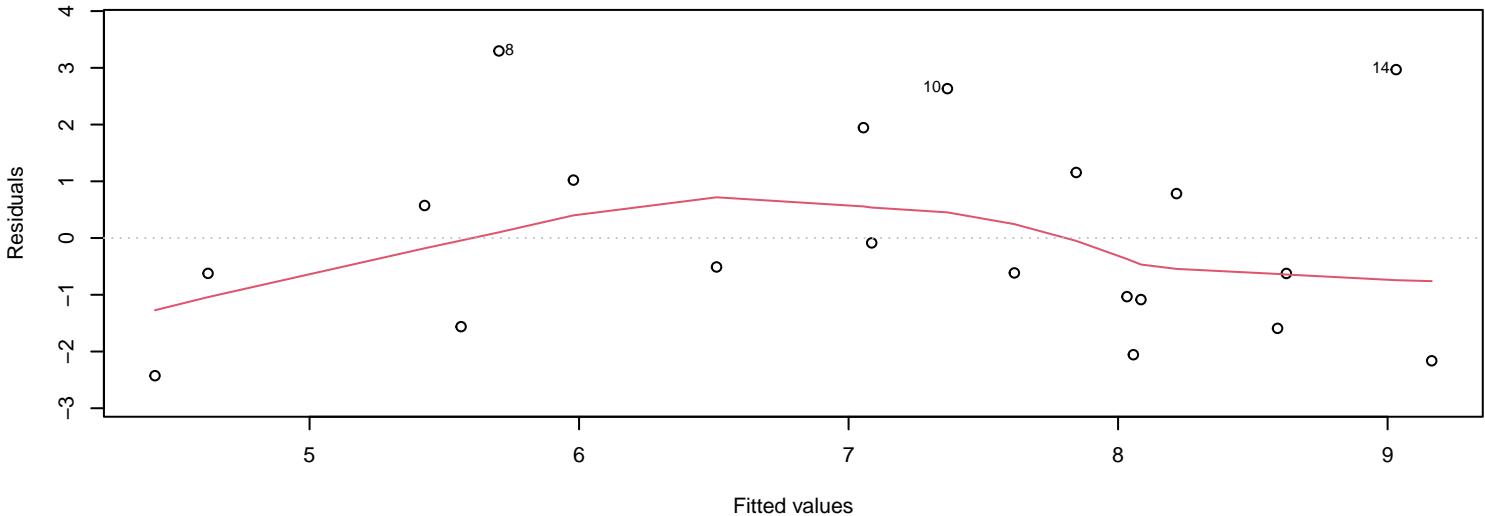
**Normal Q-Q: bdi\_sum ~ cpet\_ve**  
Q-Q Residuals



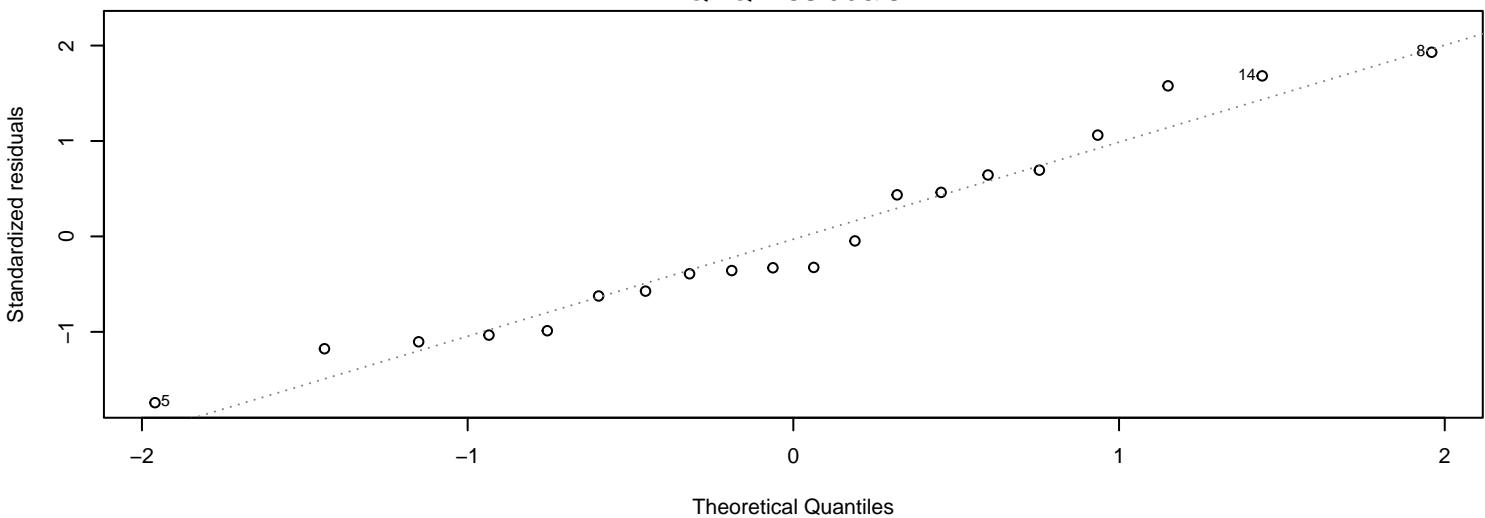
**Scale–Location: bdi\_sum ~ cpet\_ve**  
Scale–Location



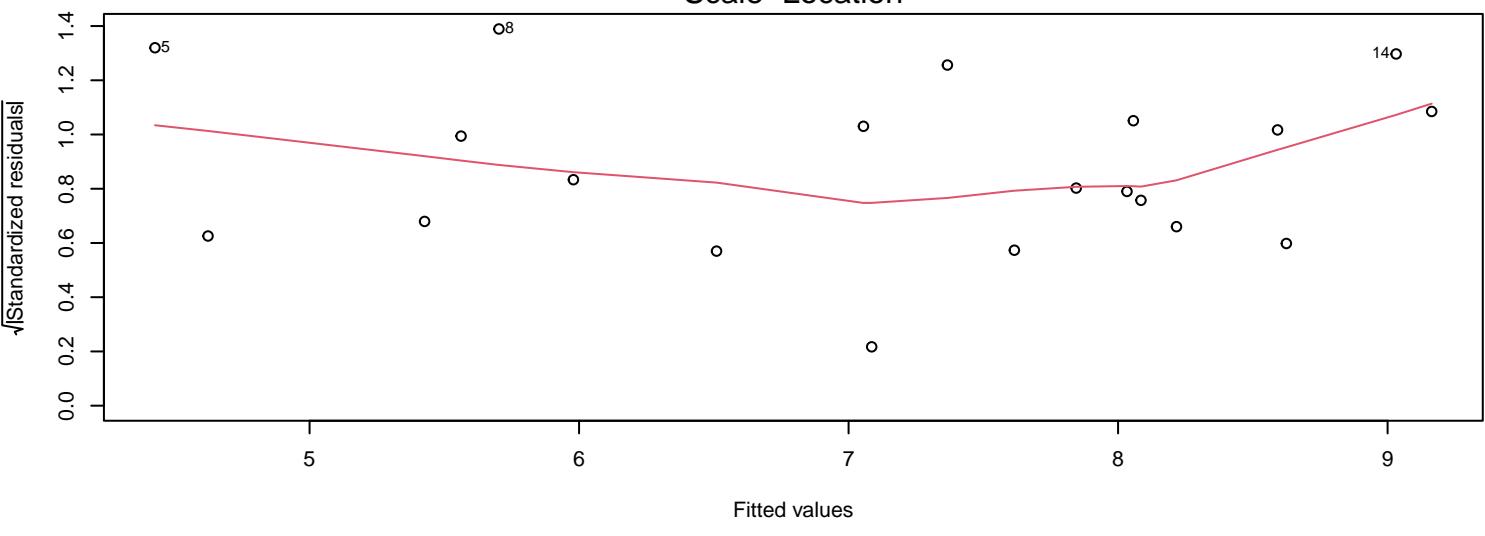
**Residuals vs Fitted: bdi\_sum ~ cpet\_vt\_peak**  
Residuals vs Fitted



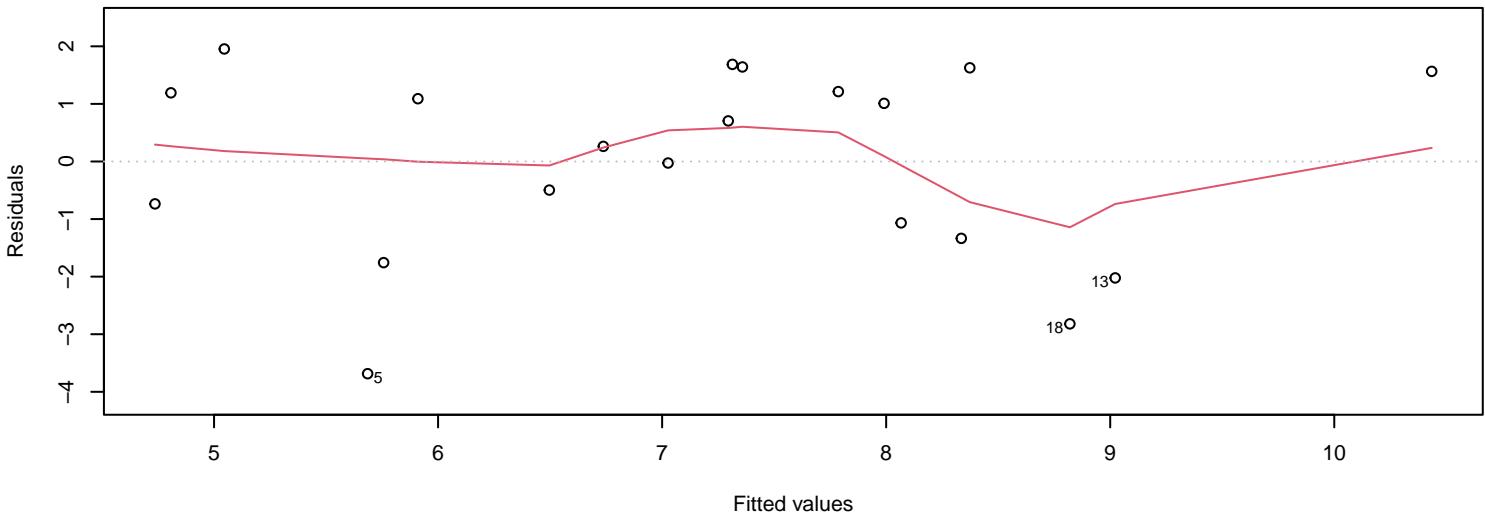
**Normal Q-Q: bdi\_sum ~ cpet\_vt\_peak**  
Q-Q Residuals



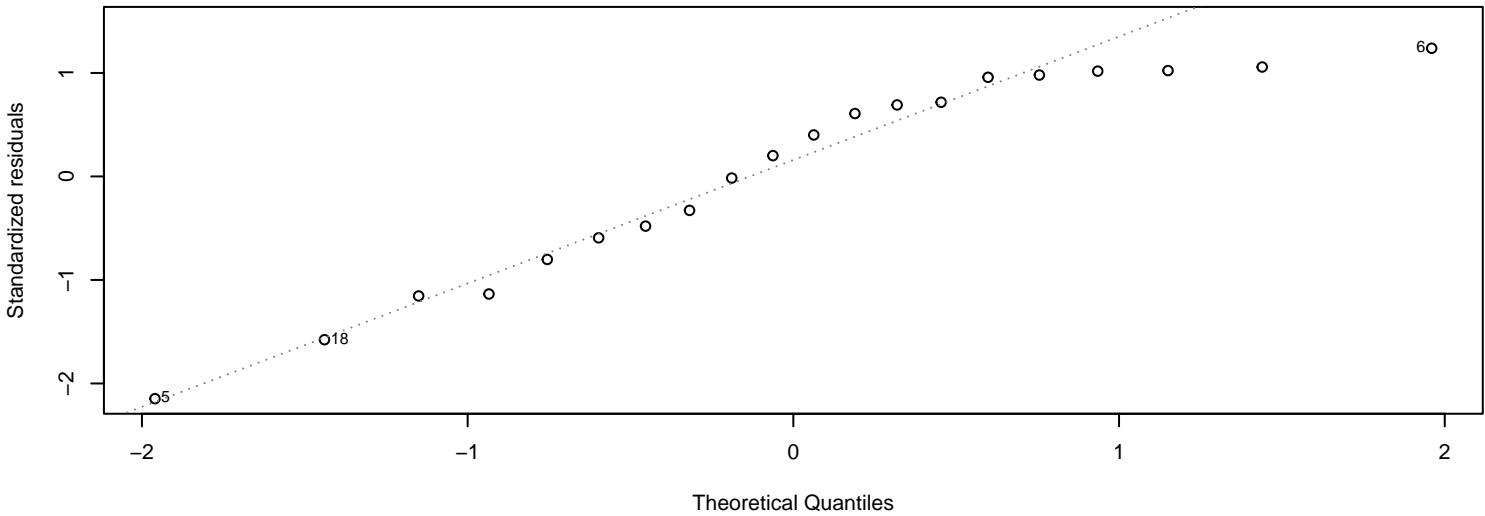
**Scale–Location: bdi\_sum ~ cpet\_vt\_peak**  
Scale–Location



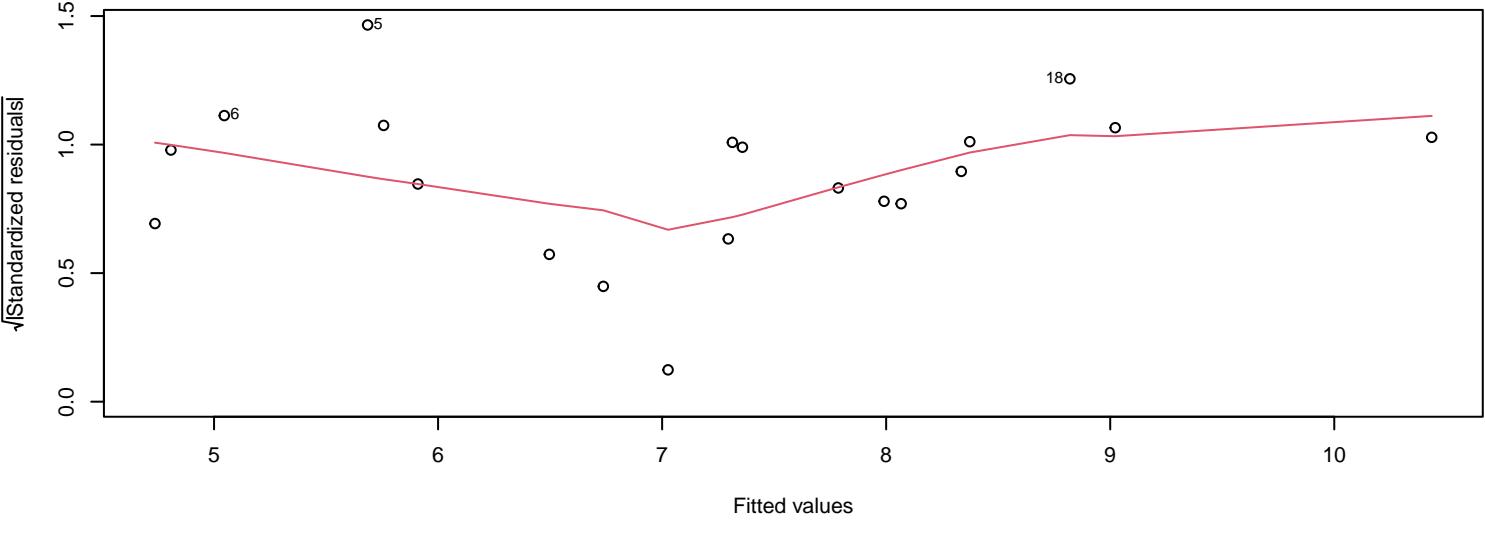
**Residuals vs Fitted: bdi\_sum ~ cpet\_o2pulse**  
Residuals vs Fitted



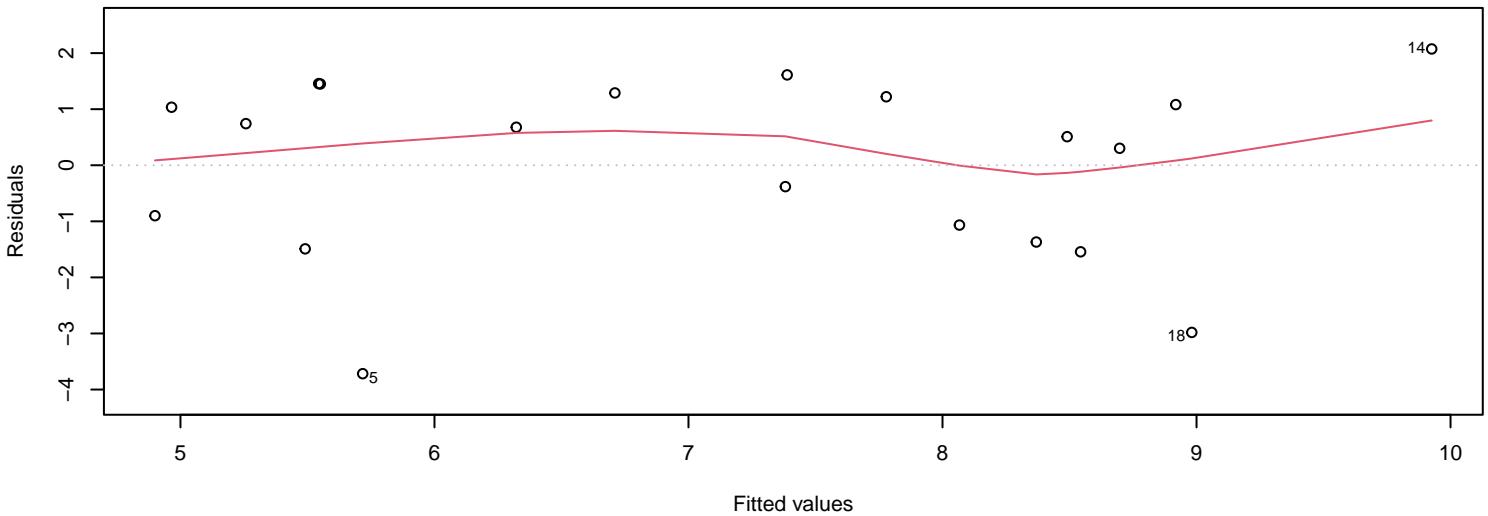
**Normal Q-Q: bdi\_sum ~ cpet\_o2pulse**  
Q-Q Residuals



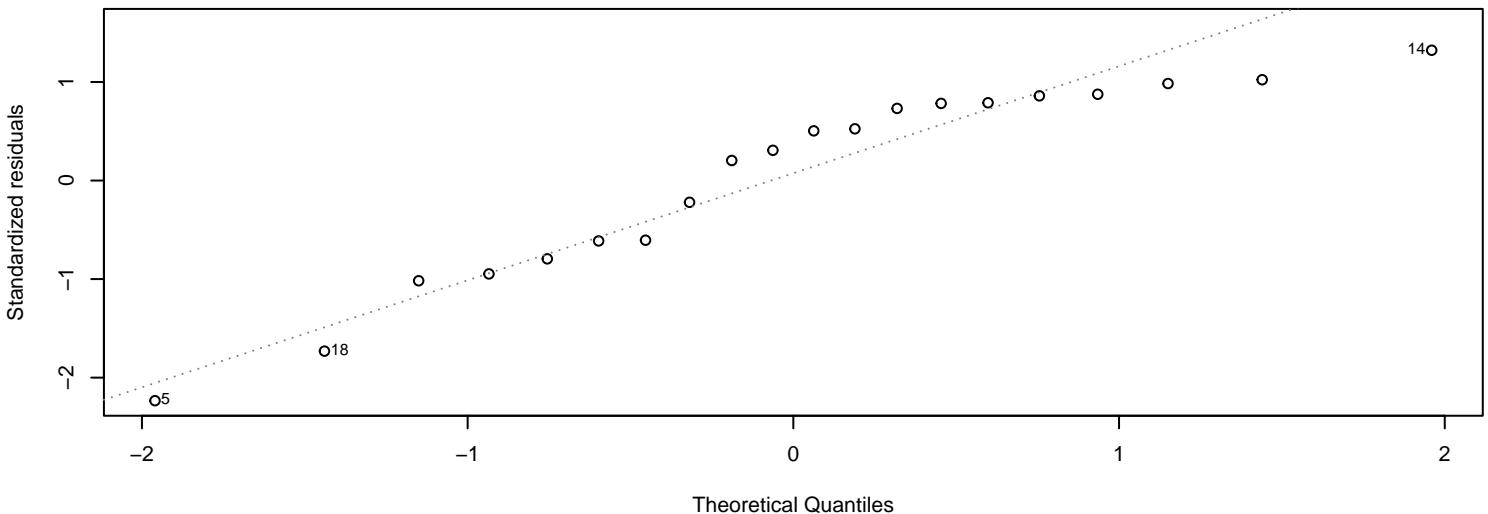
**Scale-Location: bdi\_sum ~ cpet\_o2pulse**  
Scale-Location



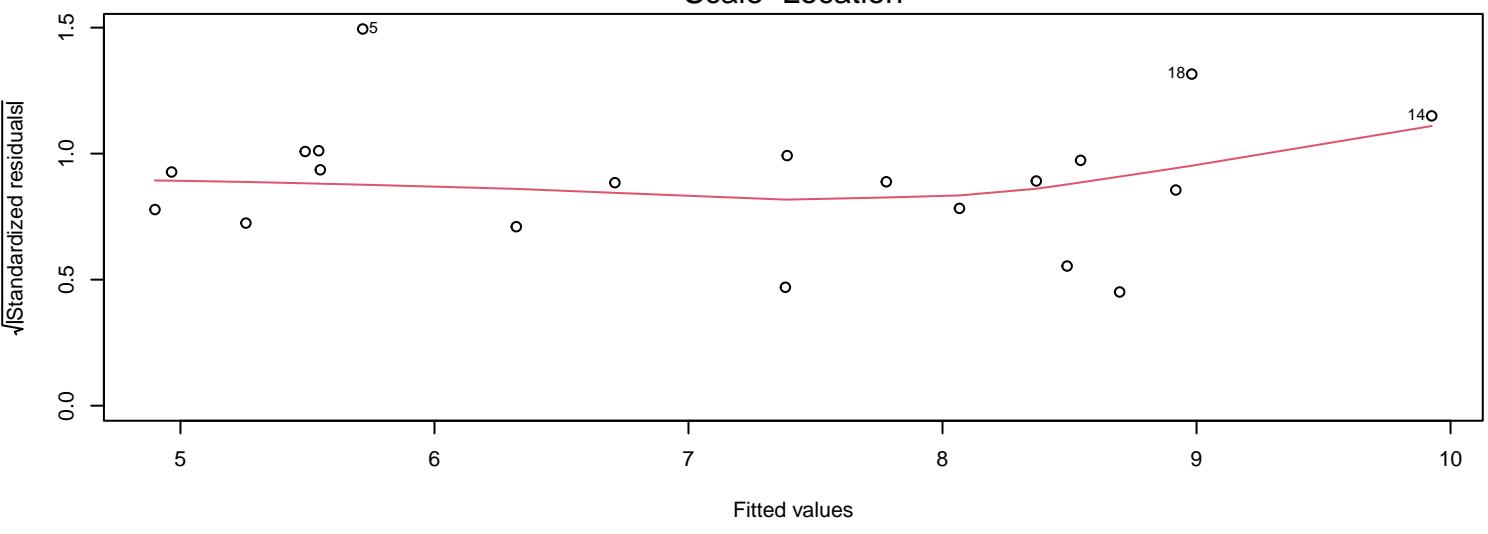
Residuals vs Fitted:  $bdi\_sum \sim cpet\_vo2peak\_absolute$   
Residuals vs Fitted



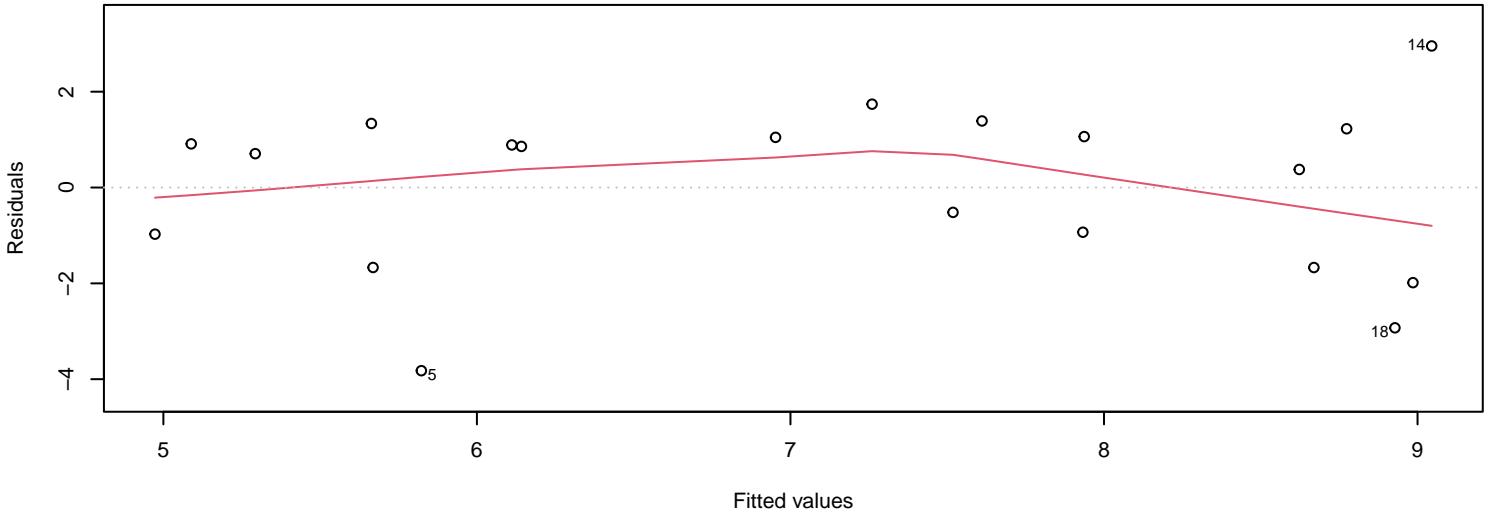
Normal Q–Q:  $bdi\_sum \sim cpet\_vo2peak\_absolute$   
Q–Q Residuals



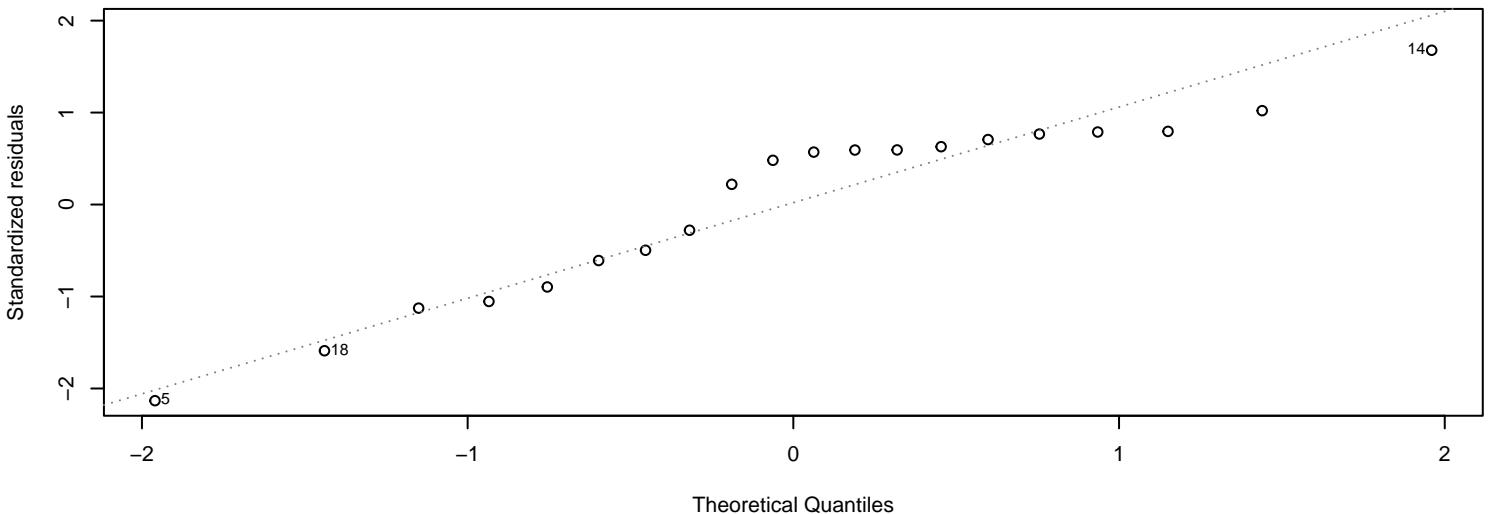
Scale–Location:  $bdi\_sum \sim cpet\_vo2peak\_absolute$   
Scale–Location



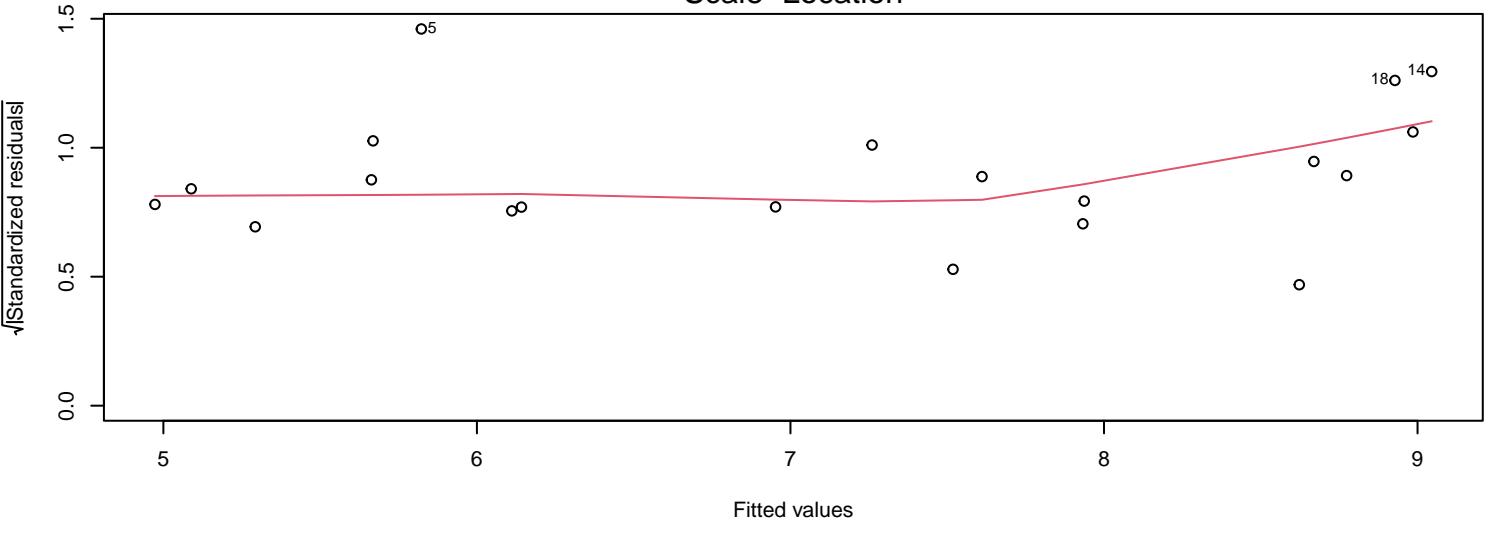
Residuals vs Fitted:  $bdi\_sum \sim cpet\_vo2peak\_relative$   
Residuals vs Fitted



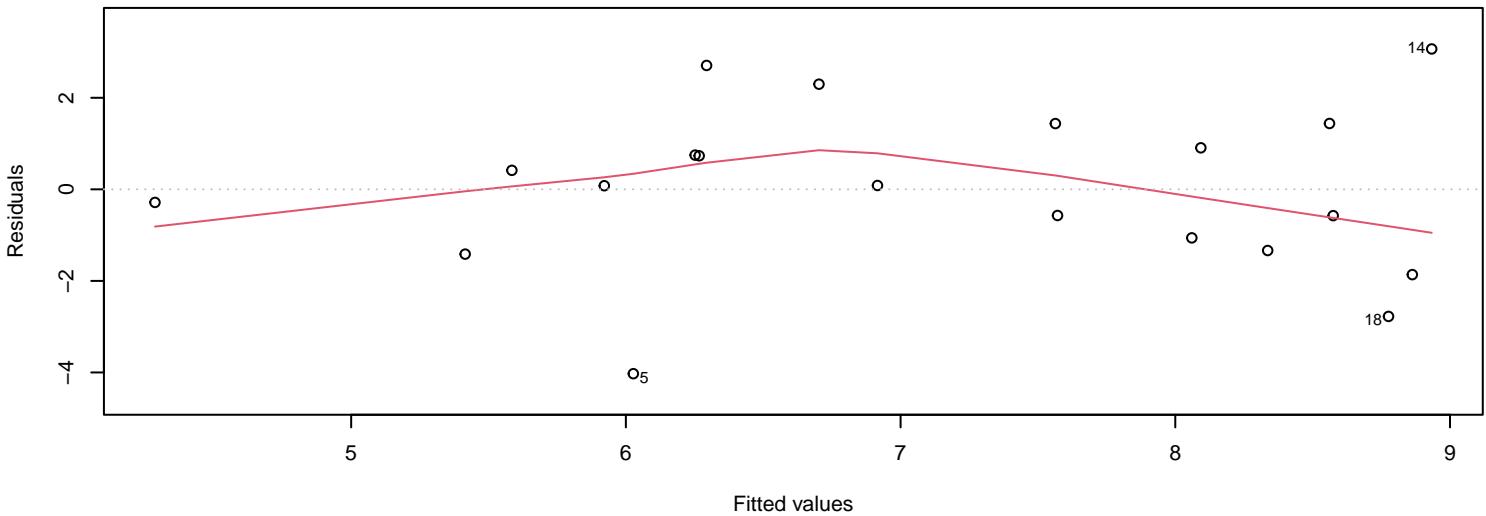
Normal Q-Q:  $bdi\_sum \sim cpet\_vo2peak\_relative$   
Q-Q Residuals



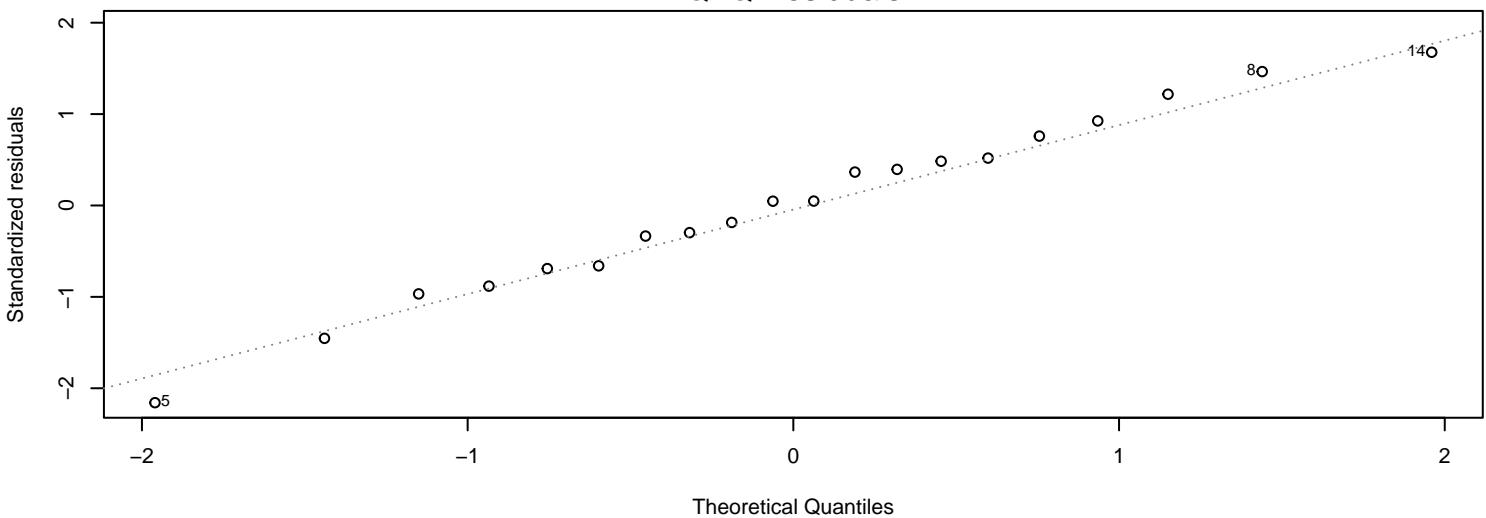
Scale-Location:  $bdi\_sum \sim cpet\_vo2peak\_relative$   
Scale-Location



**Residuals vs Fitted: bdi\_sum ~ fmd\_percent**  
Residuals vs Fitted



**Normal Q–Q: bdi\_sum ~ fmd\_percent**  
Q–Q Residuals



**Scale–Location: bdi\_sum ~ fmd\_percent**  
Scale–Location

