

## Data Analysis 2: Stars and Exoplanets (75 points)

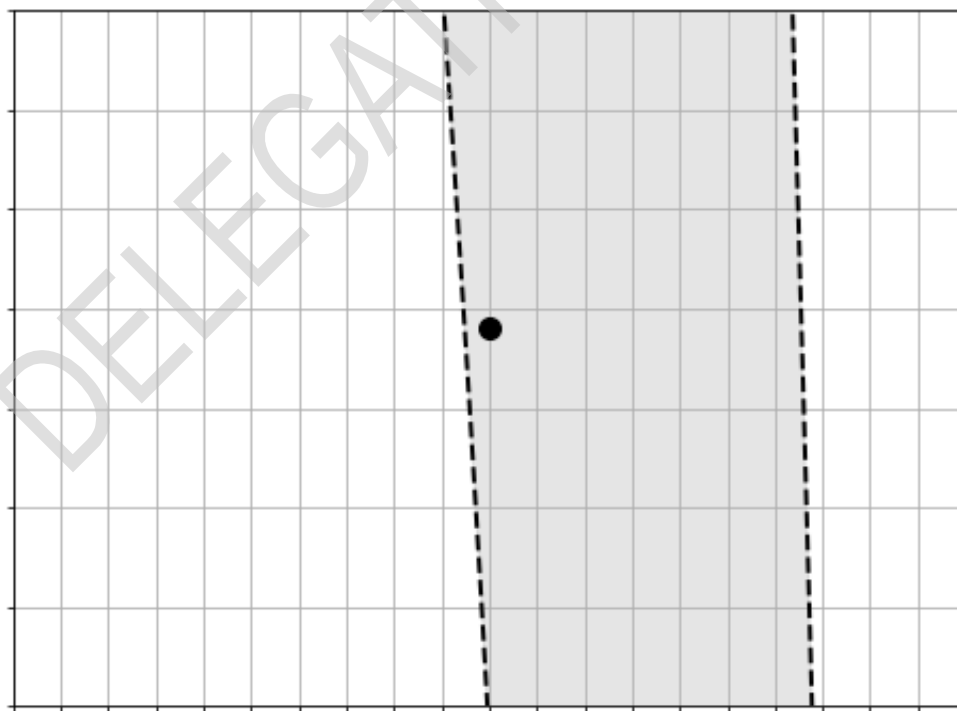
## Part 1 (20 points).

1.1 (20.0 pt)

Luminosity of the star	Radius of the star	Mass of the star	Mean planet's orbital radius	Radius of the planet in Jupiter's radius
$L_{\star}$ [ $L_{\odot}$ ]	$R$ [ $R_{\odot}$ ]	$M_{\star}$ [ $M_{\odot}$ ]	$a$ [ $au$ ]	$R_p$ [ $R_J$ ]

## Part 2 (25 points).

2.1 (15 pt)



## 2.2 (10.0 pt)

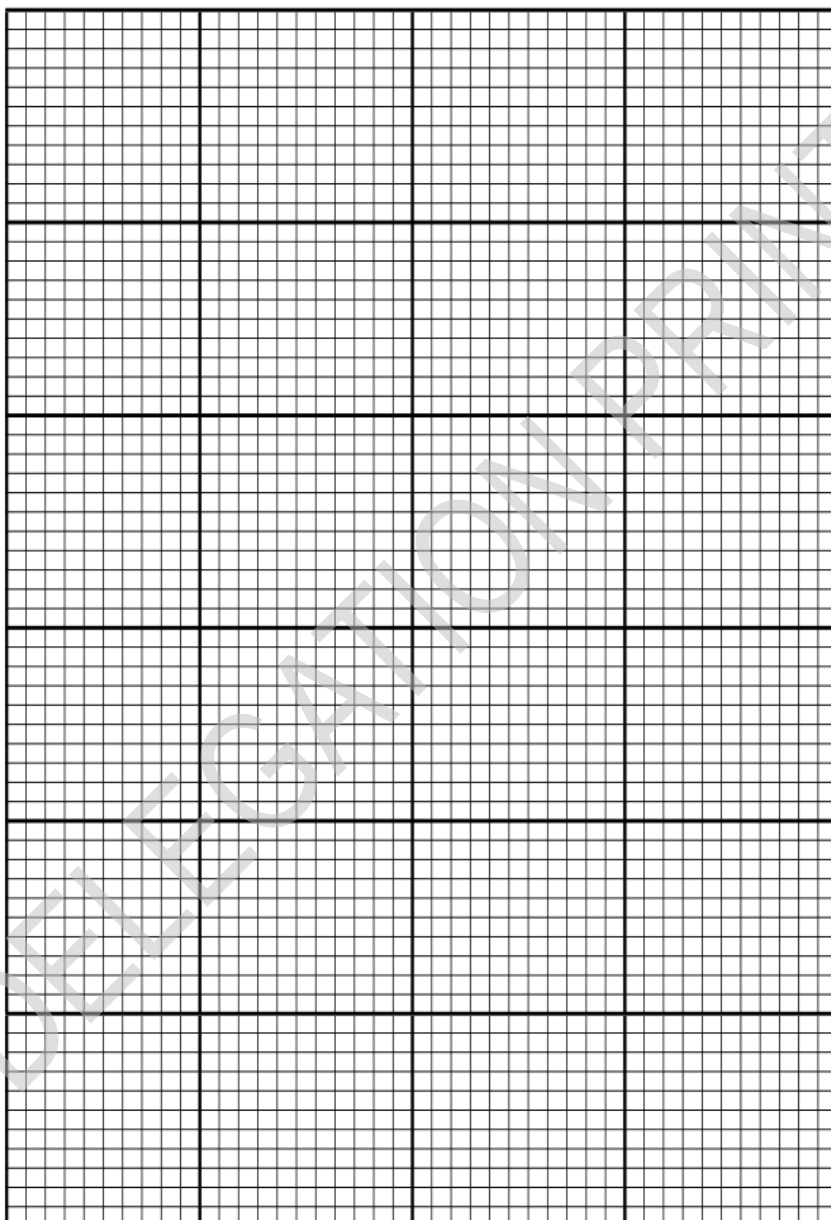
Planet's Name	In habitable zone? YES / NO
Tayrona	
Iguaque	
Gorgona	
Amacayacu	
Malpelo	
Pisba	
Tatamá	

## Part 3 (30 points).

### 3.1 (10.0 pt)

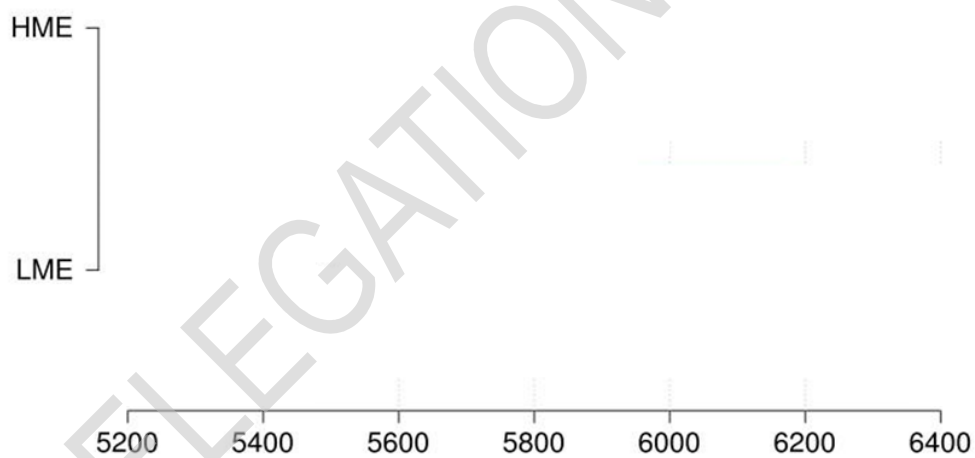
Low-mass sample	Sample size	$\mu$	$\sigma$	$\mu + \sigma$	No. of planets to exclude
Full / Original	38				
1st subsample					
2nd subsample					
Final subsample		-	-	-	-

**3.2** (5.0 pt)



**3.3** (10.0 pt)

$T_{eff}$	Min.	1st Quartile	Median 2nd Quartile	3rd Quartile	Max
LME					
HME					

**3.4** (5.0 pt)

 Planetary type vs Temperature ( $K$ )

YES	NO