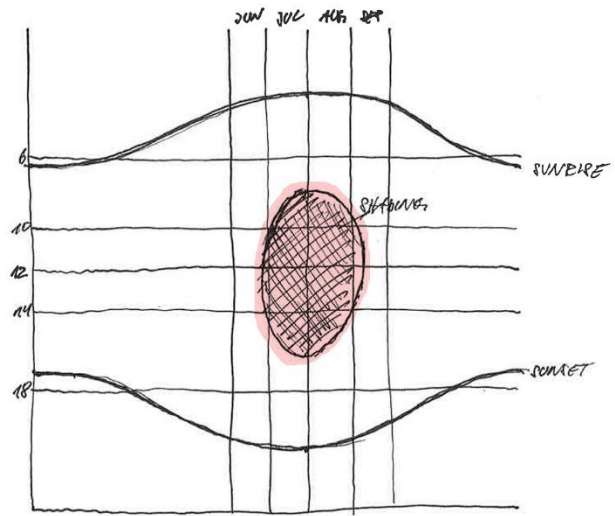
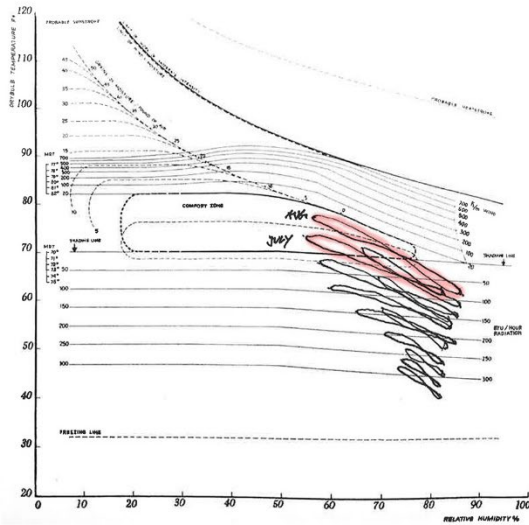


ARK-E3020 Sustainable Design Principles Assignment **Computational Cycle**

Part 1



from the bioclimatic chart you should conclude that only in July & August there is few hours of shading requirement (visible in the timetable as oval located in July/August around noon/early afternoon); for the rest of the year radiation is required for comfort
each drawing one point

Part 2

Traditional *mashrabiya* is used in hot & dry climate in the Middle East for sun shading & ventilation; the façade of the Institut du Monde Arabe uses its techno-mashrabiya only for shading throughout the year; but shading is required only for few hours in July/August, otherwise radiation would be helpful for comfort; conclusion: the façade is avoiding comfort for most part of the year
two points for arguments and conclusion

Appendix

used data from Paris

one point for sufficient detailed data

STUDENT NUMBER

STUDENT NUMBER	Ex 2
347095	4
705486	3
778918	4
705567	4
100865734	3,5
651336	3,5
705680	3,5
780896	2,5
100871333	3,5
713834	3,5
779292	2,5
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100541171	5
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10086823	4
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100864816	2,5
787132	2,5
100864353	3,5
1015188	4,5
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996237	2
100865323	3,5
1013384	2
786762	4
714338	3
651970	4
998808	2
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61220C	4
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706553	2,5
586171	3,5
650094	3,5
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81865R	4
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710235	3
765840	4
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448141	3,5
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