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**According to Buys Ballot's Law, when an observer in the Southern Hemisphere experiences a northwest wind, the center of the low pressure is located to the \_\_\_\_\_.**

Note: Based upon the rotation of the earth, the circulation of winds tends to be counterclockwise around areas of low pressure in the Northern Hemisphere and clockwise around areas of low pressure in the Southern Hemisphere.

Buys Ballot's Law states if an observer in the Southern Hemisphere faces the surface wind, the center of the low pressure is toward his left and somewhat behind him.

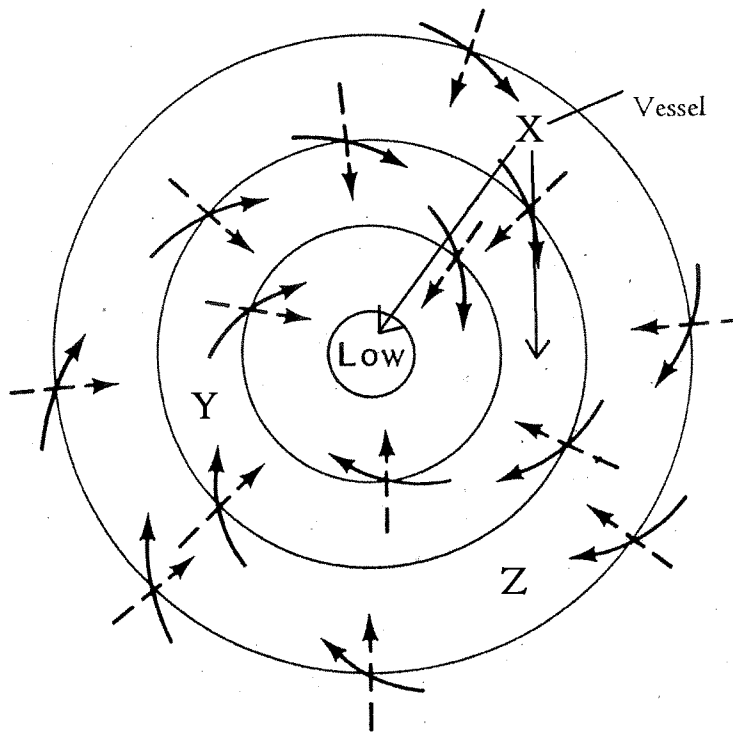
A. east-northeast  
Incorrect.

B. south-southwest  
Correct.

C. east-southeast  
Incorrect.

D. west-southwest  
Incorrect.

## Cyclonic Rotation in the Southern Hemisphere



—> Direction of Wind  
- - -> Center of low  
relative to wind

X - designates the vessel  
in the question facing  
northwest wind

Y and Z - are provided  
as examples to show  
center of low when  
experiencing different  
winds