```
#ifndef CARTE H
#define CARTE_H
#include <QtGui/QtGui>
#include <QtCore/QtCore>
#include "coord_decimal.h"
#include "point_gps.h"
class carte: public QWidget
    Q OBJECT
private:
    QImage* imageCarte;
    QImage* tracerChemin;
    QImage* tracerChemin2;
    QImage* imageAffichage;
    QImage* copieTailleNormale;
    QImage* p1;
    QImage* p2;
    QMouseEvent *event;
    QPoint point click;
    QPoint point depart;
    QPoint point release;
    QPoint point gps;
    QPoint point1;
    QPoint point2_gps;
    QPoint point2;
    QRgb coul;
    QLabel* valeurZoom;
    coord decimal dec;
    coord_decimal dec1;
    QStack<QPoint>pile;
    QStack<QPoint>pile release;
    QString md5;
    QString source;
    QString source_chemin;
    bool carteDessiner;
    bool coord_gps;
    bool enregistrer;
    bool tracer;
    float echelle;
    int nbpoint;
    int hauteur;
    int largeur;
    int flags;
    int etendueZone;
```

```
public:
    carte();
   ~carte();
    bool getCarteDessiner();
    void setCartedessiner(bool choix);
    void afficherCarte(QString chemin);
   void zoom(float valeur);
    QRgb getCouleur();
    void setCouleur(QRgb c);
    QPoint getPoint1();
    QPoint getPoint2();
    void setPoint1(QPoint p);
   void setPoint2(QPoint p);
    QPoint getPoint();
   void setPoint(QPoint p);
    coord decimal getCoordDec();
    coord decimal getCoordDec1();
    void setCoordDec(double la, double lo, double la1, double lo1);
    void setCoordSeg(int d1,int m1, double s1, int dd1, int mm1,double ss1, int
d2, int m2, double s2, int dd2, int mm2, double ss2);
    bool comparerCouleurAvecMarge(QRgb p1, QRgb p2);
    int maximum(int a, int b);
    int minimum(int a, int b);
    int tracerZone(const QPoint &p, const QRgb &color);
    void parcoursImageAffichage();
    QPoint directionChemin();
    int getFlags();
    void setFlags(int f);
    point gps pt gps (QPoint a, QPoint b,QPoint c);
   void sauvegarde_sous();
   bool test_carte();
    void setTest_carte(bool b);
    bool test enregistrer();
   void setTest enregistrer(bool b);
    void calcul md5(QString src);
   void charger();
signals:
    void ChangeRes();
    void changeRes2(const QPoint &p);
   void ChangeZoom();
    void ChangeZoomIn();
    void signalDessinerChemin(const QPoint &p);
   void SignalFlag(const QPoint &p);
public slots:
    void augmenter_zoom();
    void diminuer zoom();
   void fermerProjet();
```

```
void setNbpoint ();
void dessinerChemin(const QPoint &p);
void attributCouleur(const QPoint &p);
void sauvegardeItineraire(const QPoint &p);
void placerFlag1(const QPoint &p);
void placerFlag2(const QPoint &p);
void mousePressEvent(QMouseEvent *event);
void mouseReleaseEvent(QMouseEvent *event);
void wheelEvent(QWheelEvent *event);
void paintEvent(QPaintEvent *event);
void exporter_gpx();

#endif // CARTE_H
```